

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P319382

Luminaire Tested: **GAN-SA8D-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60920 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

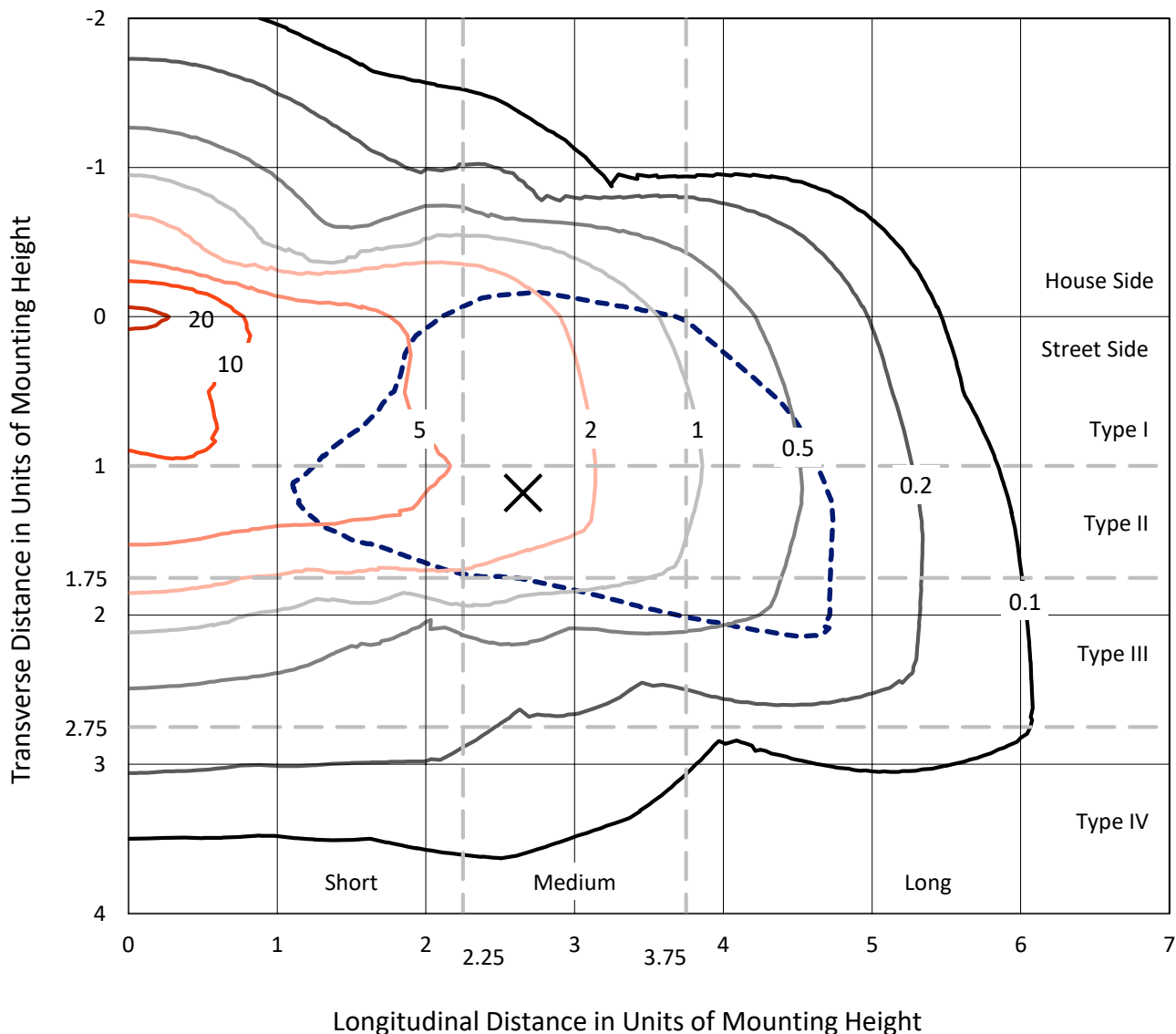
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

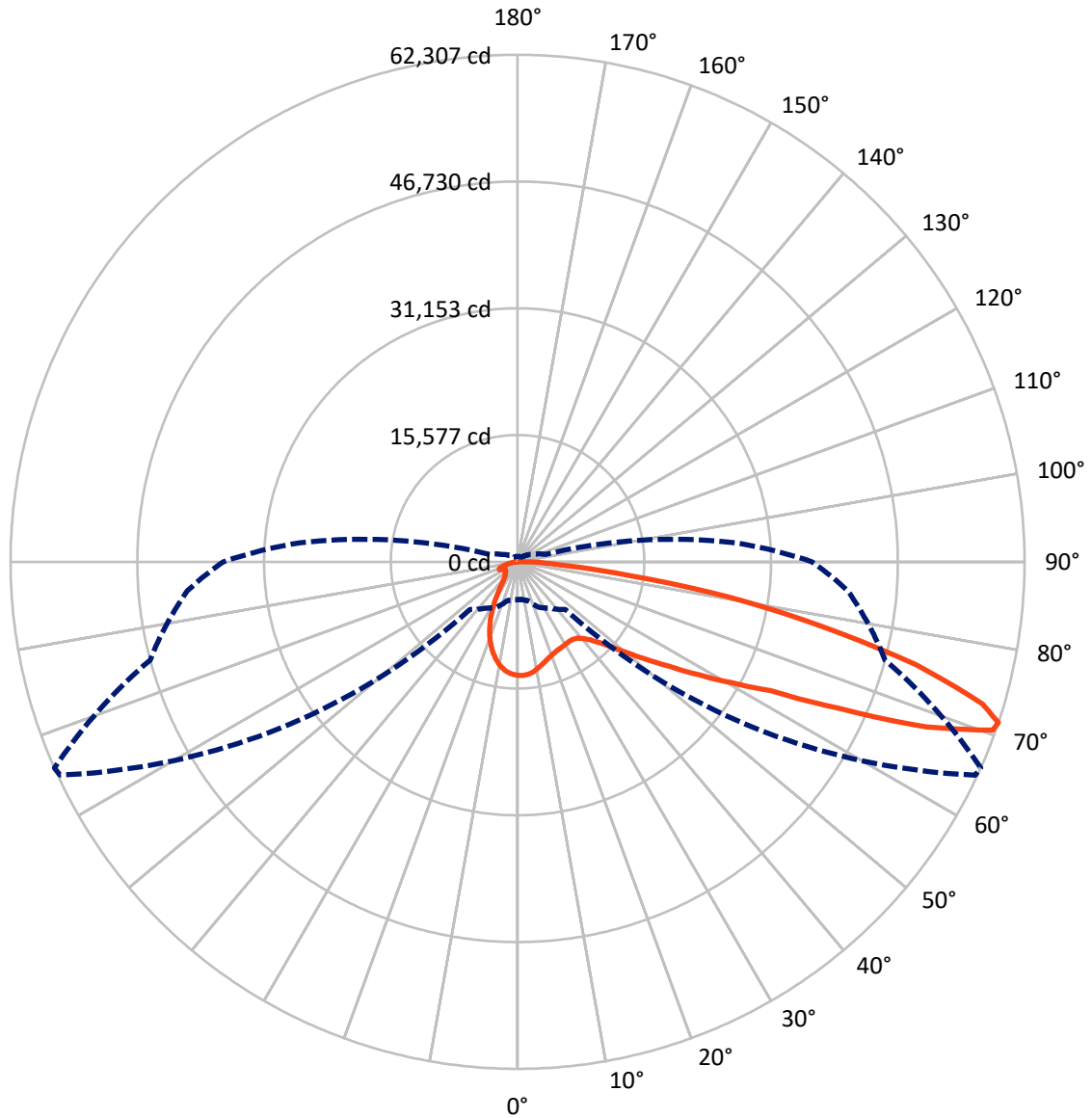
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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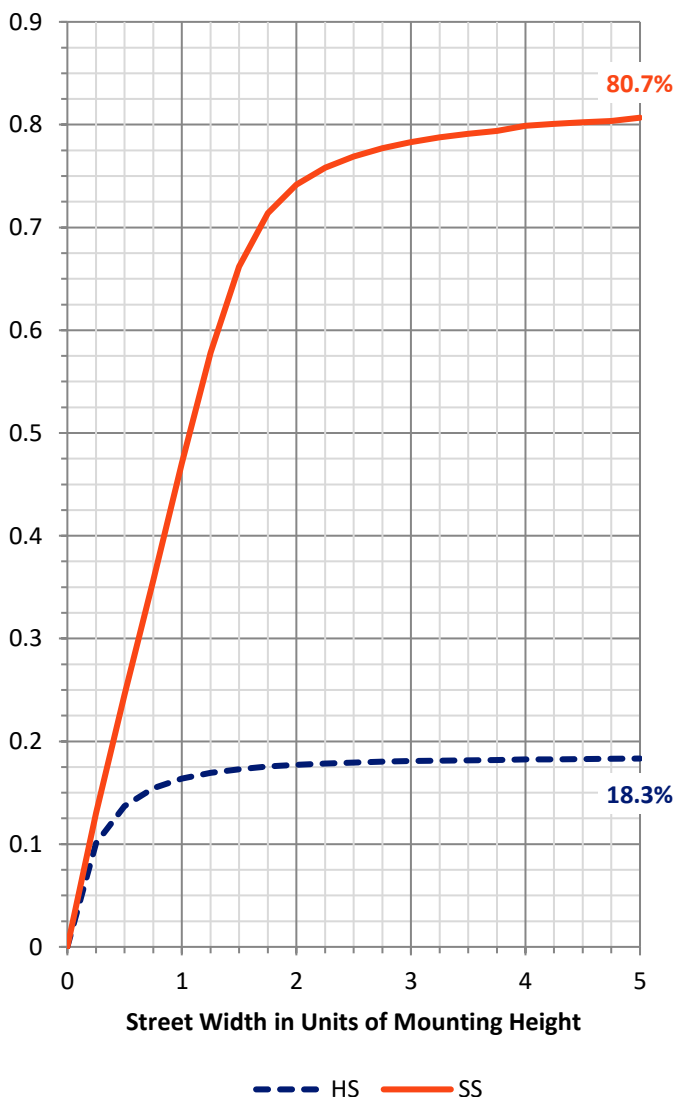
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11290.1	0.0	11290.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	49629.9	0.0	49629.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	60920.0	0.0	60920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1228.4	2.0
10°-20°	2946.3	4.8
20°-30°	3957.6	6.5
30°-40°	5206.2	8.5
40°-50°	7573.6	12.4
50°-60°	11830.8	19.4
60°-70°	14820.0	24.3
70°-80°	11304.3	18.6
80°-90°	2052.7	3.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	60920.0	100.0
0°-180°	60920.0	100.0

Coefficient of Utilization

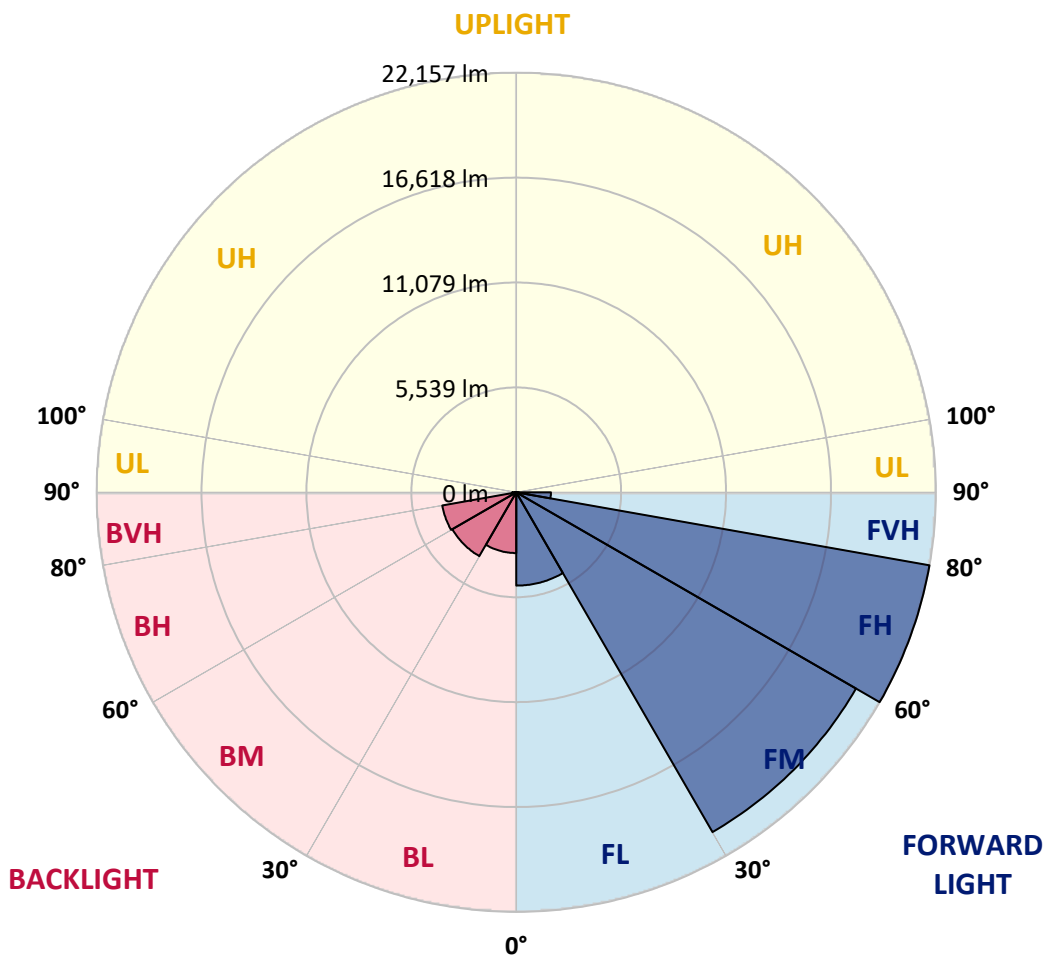


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4926.2	8.1			
FM (30°-60°)	20715.8	34.0			
FH (60°-80°)	22157.2	36.4			G5
FVH (80°-90°)	1830.5	3.0			G5
BL (0°-30°)	3206.1	5.3	B4/5000		
BM (30°-60°)	3894.7	6.4	B3/5000		
BH (60°-80°)	3967.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	222.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6
2.5°	13696.9	13675.8	13738.9	13804.2	13829.4	13871.5	13934.6	13970.3	13968.2	13974.5	13953.5
5°	12788.2	12760.9	12887.1	12990.2	13187.9	13410.8	13682.2	13875.7	13879.9	13989.2	14018.7
7.5°	11928.0	11909.1	12054.2	12220.3	12449.6	12790.3	13229.9	13646.4	13671.6	13968.2	14071.3
10°	11238.1	11233.9	11374.8	11555.7	11822.8	12203.5	12708.3	13318.3	13356.1	13867.3	14079.7
12.5°	10699.6	10708.1	10830.0	11036.2	11318.0	11715.5	12262.4	12950.2	13011.2	13707.4	14031.3
15°	10302.1	10335.8	10434.6	10642.8	10920.5	11324.3	11885.9	12609.5	12702.0	13528.6	14004.0
17.5°	10074.9	10112.8	10182.2	10354.7	10615.5	11004.6	11536.8	12329.7	12413.9	13391.9	14006.1
20°	10007.6	10039.2	10079.2	10184.3	10405.2	10758.5	11261.2	12077.3	12167.8	13282.5	14027.1
22.5°	10140.2	10163.3	10167.5	10159.1	10293.7	10581.9	11061.4	11892.2	11989.0	13211.0	14041.8
25°	10424.1	10455.7	10432.5	10354.7	10310.5	10487.2	10958.3	11770.2	11867.0	13158.4	14012.4
27.5°	10851.1	10855.3	10836.4	10735.4	10527.2	10497.7	10926.8	11698.7	11791.3	13097.4	13951.4
30°	11431.6	11458.9	11425.3	11288.6	10947.8	10666.0	10964.7	11629.3	11713.4	13019.6	13852.5
32.5°	12111.0	12178.3	12176.2	12033.1	11545.2	11042.5	11120.3	11587.2	11652.4	12937.6	13732.6
35°	12815.6	12908.1	13080.6	13019.6	12416.0	11637.7	11419.0	11654.5	11698.7	12927.1	13648.5
37.5°	13547.5	13640.1	13995.6	14159.6	13452.9	12489.6	11890.1	11892.2	11913.3	13055.4	13642.2
40°	14313.2	14412.0	14946.3	15373.2	14796.9	13568.6	12649.4	12388.6	12365.5	13370.9	13766.3
42.5°	15385.9	15474.2	16115.7	16660.5	16288.2	14950.5	13699.0	13154.2	13105.8	13989.2	14163.8
45°	16742.5	16818.2	17499.7	18082.3	17890.9	16528.0	15017.8	14208.0	14199.6	15019.9	14969.4
47.5°	18355.8	18414.7	19026.7	19590.4	19659.8	18343.1	16675.2	15833.9	15697.1	16433.3	16216.7
50°	20036.3	20101.5	20518.0	21123.7	21639.1	20772.5	18808.0	17825.7	17642.7	18299.0	17983.5
52.5°	21149.0	21235.2	21597.0	22364.7	23864.4	23435.3	21329.9	20240.3	19962.7	20560.0	20318.2
55°	20652.6	20846.1	21399.3	22629.7	25643.8	27503.1	24440.7	23056.7	22743.3	23239.7	23096.7
57.5°	18395.7	18660.7	19415.8	21315.1	25894.1	31087.2	29143.7	26373.7	26152.8	26009.8	26075.0
60°	14271.1	14525.6	15461.6	17937.2	24150.4	33703.8	36221.4	30462.5	30142.8	28790.4	28849.3
62.5°	10100.2	9971.9	10613.4	12424.4	19624.1	34010.8	44275.1	35931.2	34879.5	31726.6	31467.9
65°	7702.4	7672.9	7961.1	8537.4	11885.9	30336.3	49072.8	45122.7	43480.0	35180.3	34570.3
67.5°	6328.9	6276.3	6560.3	7399.5	7654.0	19571.5	49178.0	55786.6	54173.4	39479.5	38158.6
70°	5203.6	5144.7	5409.8	6493.0	7073.5	9925.6	41389.3	62031.4	61945.2	44922.9	40867.7
71°	4665.2	4623.1	4940.7	6143.8	6949.4	8272.4	35735.6	62048.2	62306.9	46765.4	40707.8
72.5°	3798.6	3813.3	4149.9	5468.7	6856.9	7304.9	26264.3	59156.1	59703.0	48521.7	39254.4
75°	2524.0	2536.6	2978.3	4206.7	6648.6	7147.1	14435.2	49638.6	50644.0	47470.0	35819.7
77.5°	1695.3	1691.1	1991.9	2885.8	5792.6	7147.1	8463.8	37125.9	38230.1	37771.6	27614.6
80°	1167.3	1158.9	1371.4	1991.9	4385.4	7233.4	6543.5	26018.2	26352.6	20398.1	11223.4
82.5°	715.1	721.4	896.0	1407.1	2984.6	6509.8	6177.5	14187.0	13823.1	5721.1	2803.7
85°	410.1	408.0	572.1	952.8	1916.1	5493.9	6023.9	6106.0	5601.2	1722.6	1013.8
87.5°	147.2	157.7	307.1	527.9	1097.9	3826.0	5111.1	3176.0	2862.6	778.2	458.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6	13955.6
2.5°	13938.8	13951.4	13936.7	13852.5	13781.0	13665.3	13600.1	13509.7	13482.3	13469.7	13503.4
5°	13991.3	13995.6	13871.5	13650.6	13402.4	13110.1	12899.7	12641.0	12519.0	12466.4	12500.1
7.5°	14039.7	14020.8	13749.5	13326.7	12868.2	12359.2	11906.9	11492.6	11250.7	11151.9	11160.3
10°	14046.0	13966.1	13530.7	12876.6	12165.7	11419.0	10724.9	10085.5	9681.6	9418.7	9498.6
12.5°	13980.8	13846.2	13208.9	12294.0	11307.5	10289.5	9351.4	8392.3	7816.0	7548.9	7557.3
15°	13930.4	13686.4	12813.5	11608.3	10283.2	8934.9	7654.0	6526.6	5912.5	5639.0	5510.7
17.5°	13888.3	13513.9	12355.0	10836.4	9073.8	7363.8	5824.1	4818.7	4482.2	4402.3	4368.6
20°	13829.4	13330.9	11843.8	9942.4	7696.1	5605.4	4252.9	3756.5	3758.7	3851.2	3863.8
22.5°	13747.4	13122.7	11299.1	8939.2	6217.4	4082.6	3333.8	3190.8	3335.9	3512.6	3544.1
25°	13625.4	12876.6	10693.3	7830.7	4740.9	3138.2	2847.9	2841.6	3018.3	3203.4	3230.7
27.5°	13452.9	12554.8	10020.3	6640.2	3493.6	2667.0	2551.3	2595.5	2725.9	2860.5	2871.0
30°	13221.5	12180.4	9277.8	5384.5	2738.5	2374.7	2362.0	2402.0	2481.9	2576.6	2585.0
32.5°	12967.0	11799.7	8484.8	4168.8	2345.2	2216.9	2229.5	2248.5	2286.3	2324.2	2332.6
35°	12735.7	11410.6	7672.9	3167.6	2158.0	2113.8	2105.4	2101.2	2105.4	2092.8	2094.9
37.5°	12586.3	11088.8	6827.4	2521.9	2050.7	2023.4	1998.2	1966.6	1930.9	1909.8	1914.0
40°	12531.6	10849.0	5971.4	2179.0	1962.4	1943.5	1895.1	1827.8	1785.7	1773.1	1773.1
42.5°	12678.9	10724.9	5144.7	2006.6	1888.8	1857.2	1777.3	1699.5	1667.9	1665.8	1663.7
45°	13129.0	10775.4	4358.1	1911.9	1821.5	1760.5	1655.3	1590.1	1569.1	1573.3	1571.2
47.5°	13936.7	11093.0	3685.0	1848.8	1754.2	1674.3	1556.5	1503.9	1478.6	1478.6	1480.7
50°	15310.1	11835.4	3148.7	1796.2	1697.4	1594.3	1485.0	1419.7	1386.1	1384.0	1384.0
52.5°	17310.4	13164.7	2814.3	1752.1	1634.3	1522.8	1413.4	1331.4	1291.4	1283.0	1278.8
55°	19817.6	15070.4	2721.7	1722.6	1550.2	1445.0	1327.2	1245.2	1201.0	1182.1	1180.0
57.5°	22621.3	17388.2	2904.7	1686.9	1463.9	1352.4	1232.6	1154.7	1108.5	1085.3	1083.2
60°	25458.7	19918.5	3651.4	1636.4	1392.4	1251.5	1135.8	1064.3	1018.0	992.8	988.6
62.5°	28300.3	22585.6	5176.3	1632.2	1341.9	1154.7	1036.9	975.9	931.8	904.4	898.1
65°	31505.8	25505.0	6909.4	1743.7	1325.1	1066.4	936.0	887.6	849.7	824.5	822.4
67.5°	35186.6	28800.9	6743.3	1972.9	1381.9	986.5	841.3	803.5	776.1	755.1	753.0
70°	36913.4	28285.6	4191.9	2134.9	1461.8	908.6	750.9	723.5	702.5	687.8	681.5
71°	36189.9	26857.4	3514.7	2115.9	1453.4	875.0	715.1	694.1	673.1	660.4	654.1
72.5°	34217.0	24493.3	2932.0	1968.7	1358.8	814.0	668.9	647.8	628.9	614.2	610.0
75°	30704.4	21874.6	2347.3	1573.3	1083.2	687.8	586.8	563.7	549.0	540.6	532.1
77.5°	22570.8	15610.9	1815.2	1243.1	797.2	561.6	500.6	483.8	469.0	456.4	450.1
80°	8646.8	6047.1	1222.0	927.6	584.7	443.8	403.8	395.4	380.7	372.3	372.3
82.5°	2328.4	1806.8	652.0	561.6	391.2	323.9	309.2	305.0	292.4	275.5	277.6
85°	942.3	797.2	366.0	309.2	239.8	191.4	208.2	210.3	195.6	174.6	176.7
87.5°	414.4	338.6	204.0	136.7	105.2	73.6	94.6	94.6	86.2	71.5	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)