

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: P319342

Luminaire Tested: **GAN-SA8D-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319342
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-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 55479 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

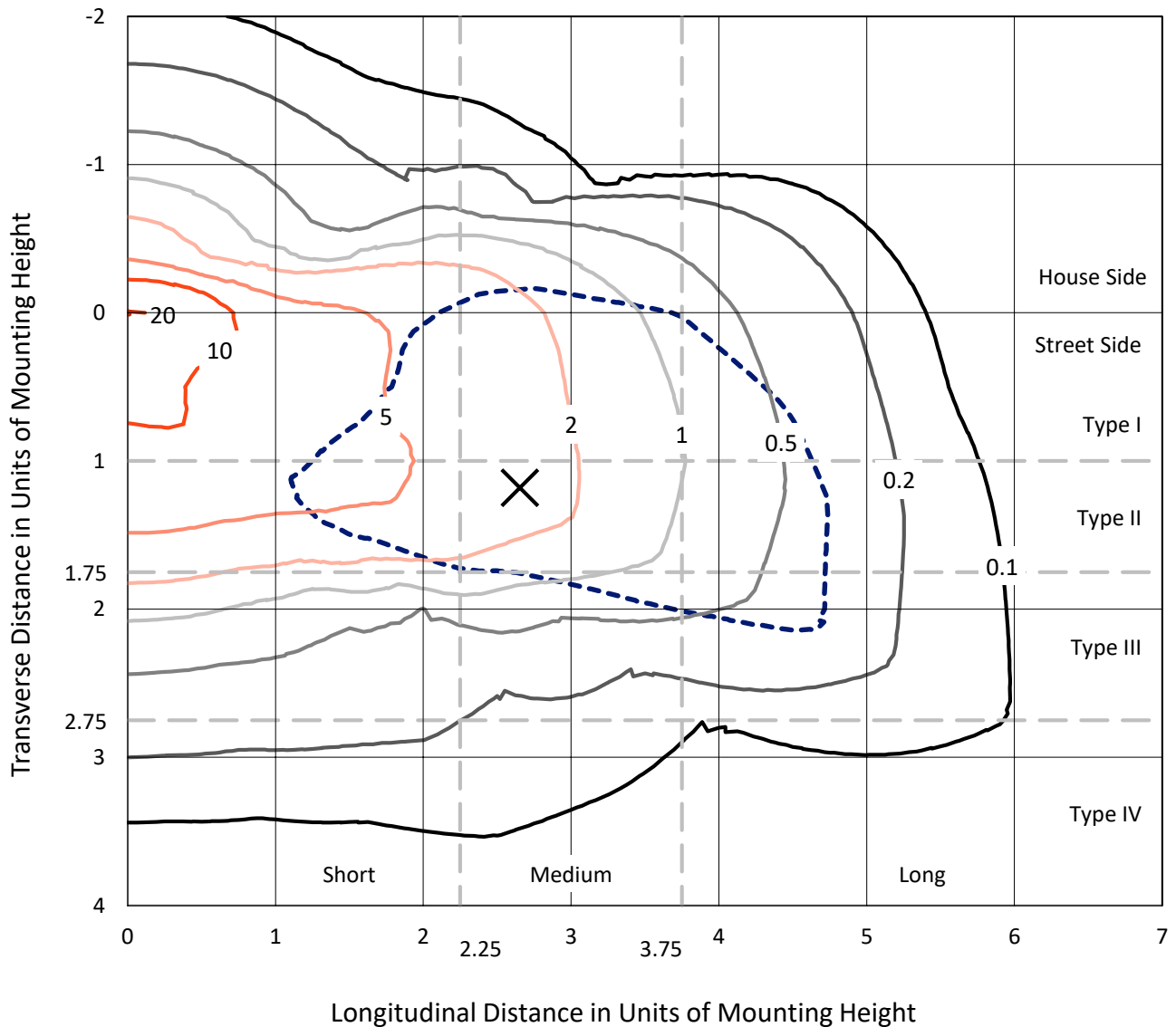
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

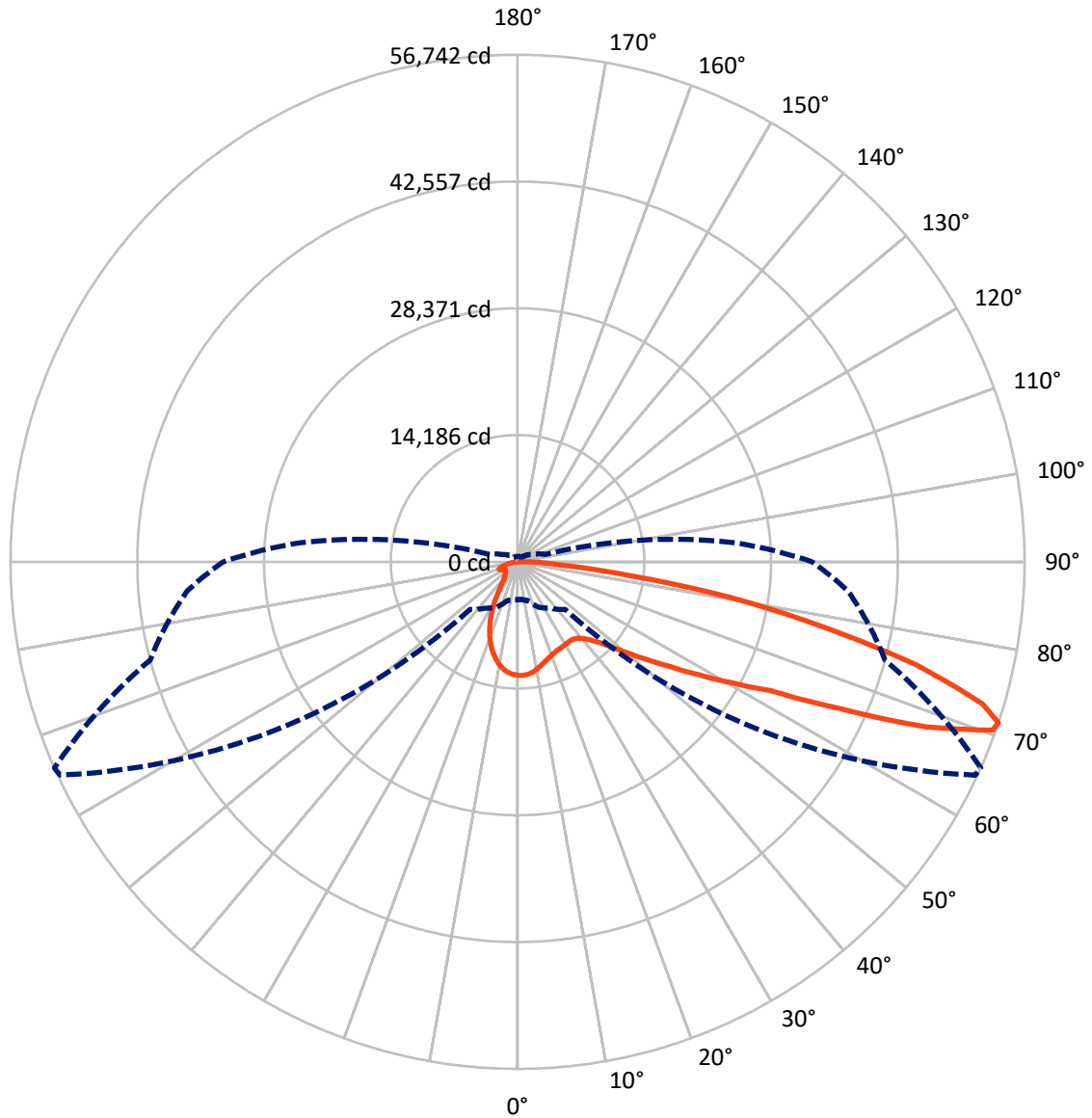
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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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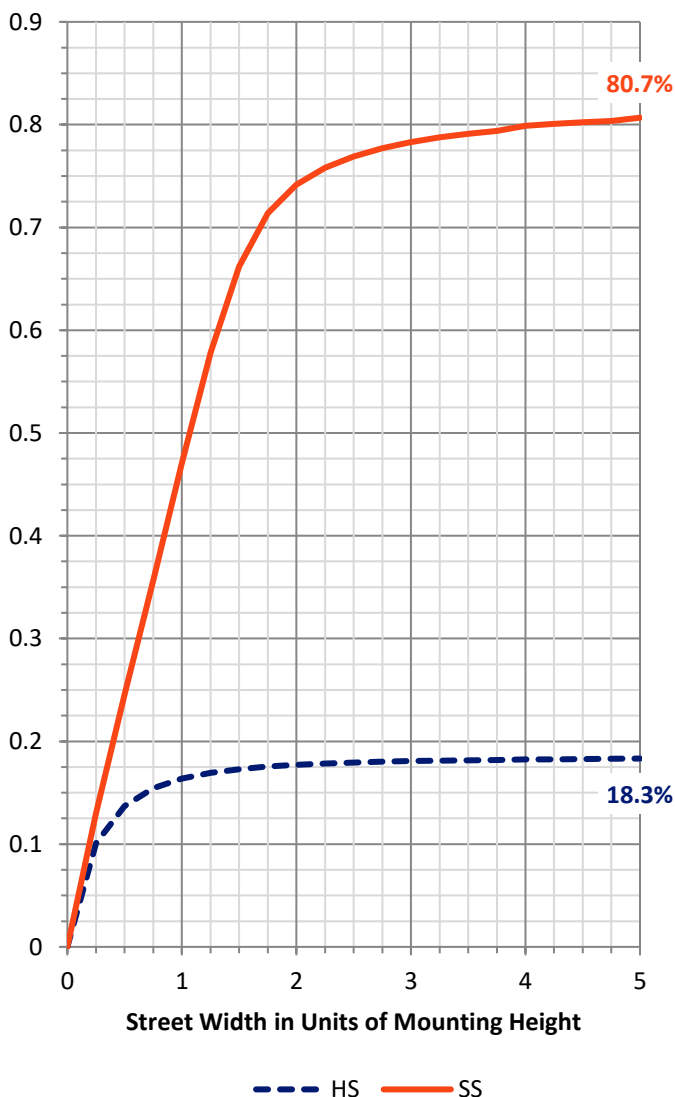
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10281.8	0.0	10281.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	45197.2	0.0	45197.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	55479.0	0.0	55479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1118.7	2.0
10°-20°	2683.1	4.8
20°-30°	3604.1	6.5
30°-40°	4741.2	8.5
40°-50°	6897.2	12.4
50°-60°	10774.1	19.4
60°-70°	13496.4	24.3
70°-80°	10294.7	18.6
80°-90°	1869.4	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°	55479.0	100.0
0°-180°	55479.0	100.0

Coefficient of Utilization

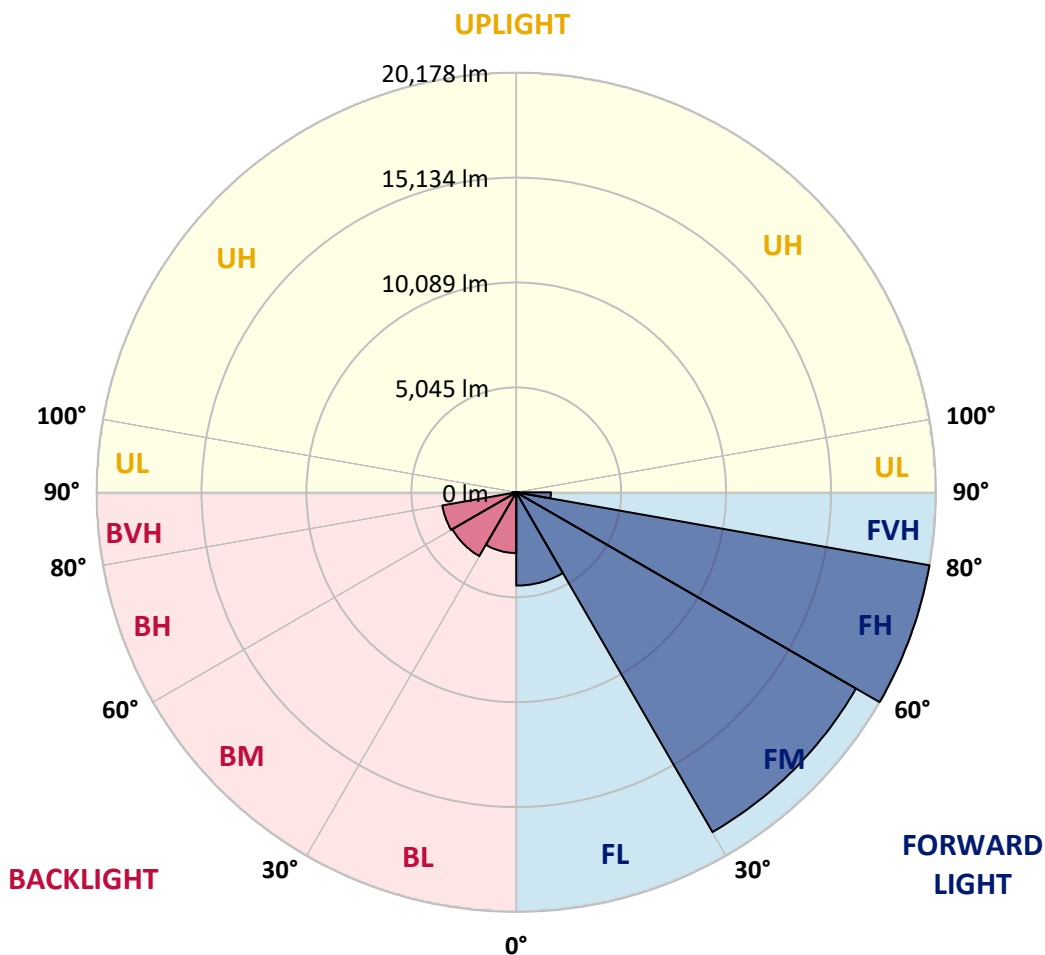


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4486.2	8.1			
FM (30°-60°)	18865.6	34.0			
FH (60°-80°)	20178.3	36.4			G5
FVH (80°-90°)	1667.1	3.0			G5
BL (0°-30°)	2919.8	5.3	B4/5000		
BM (30°-60°)	3546.9	6.4	B3/5000		
BH (60°-80°)	3612.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	202.4	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°	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2
2.5°	12473.6	12454.4	12511.9	12571.3	12594.2	12632.5	12690.0	12722.6	12720.7	12726.4	12707.2
5°	11646.1	11621.2	11736.1	11830.0	12010.0	12213.1	12460.2	12636.4	12640.2	12739.8	12766.6
7.5°	10862.6	10845.4	10977.6	11128.9	11337.7	11648.0	12048.3	12427.6	12450.6	12720.7	12814.5
10°	10234.4	10230.5	10358.9	10523.6	10766.9	11113.6	11573.3	12128.8	12163.3	12628.7	12822.2
12.5°	9744.0	9751.7	9862.8	10050.5	10307.2	10669.2	11167.2	11793.6	11849.1	12483.1	12778.1
15°	9382.0	9412.6	9502.7	9692.3	9945.1	10312.9	10824.3	11483.3	11567.5	12320.3	12753.2
17.5°	9175.1	9209.6	9272.8	9429.9	9667.4	10021.8	10506.4	11228.5	11305.1	12195.8	12755.1
20°	9113.8	9142.6	9178.9	9274.7	9475.8	9797.6	10255.4	10998.6	11081.0	12096.2	12774.3
22.5°	9234.5	9255.6	9259.4	9251.7	9374.3	9636.7	10073.5	10830.1	10918.2	12031.1	12787.7
25°	9493.1	9521.8	9500.7	9429.9	9389.6	9550.5	9979.6	10719.0	10807.1	11983.2	12760.9
27.5°	9881.9	9885.8	9868.5	9776.6	9586.9	9560.1	9950.9	10653.9	10738.1	11927.7	12705.3
30°	10410.6	10435.5	10404.9	10280.3	9970.0	9713.4	9985.4	10590.7	10667.3	11856.8	12615.3
32.5°	11029.3	11090.6	11088.7	10958.4	10514.0	10056.2	10127.1	10552.3	10611.7	11782.1	12506.1
35°	11671.0	11755.3	11912.3	11856.8	11307.0	10598.3	10399.1	10613.6	10653.9	11772.5	12429.5
37.5°	12337.6	12421.8	12745.6	12895.0	12251.4	11374.1	10828.2	10830.1	10849.2	11889.3	12423.8
40°	13034.8	13124.8	13611.4	14000.2	13475.4	12356.7	11519.7	11282.1	11261.1	12176.7	12536.8
42.5°	14011.7	14092.1	14676.4	15172.5	14833.4	13615.2	12475.5	11979.4	11935.3	12739.8	12898.8
45°	15247.2	15316.1	15936.7	16467.3	16293.0	15051.8	13676.5	12939.0	12931.4	13678.4	13632.4
47.5°	16716.3	16770.0	17327.4	17840.7	17903.9	16704.8	15185.9	14419.7	14295.2	14965.6	14768.3
50°	18246.8	18306.2	18685.4	19237.1	19706.4	18917.2	17128.2	16233.6	16067.0	16664.6	16377.3
52.5°	19260.1	19338.6	19668.1	20367.2	21733.0	21342.2	19424.8	18432.6	18179.8	18723.8	18503.5
55°	18808.0	18984.3	19488.0	20608.6	23353.4	25046.7	22257.8	20997.4	20712.0	21164.1	21033.8
57.5°	16752.7	16994.1	17681.7	19411.4	23581.4	28310.7	26540.8	24018.1	23817.0	23686.7	23746.1
60°	12996.5	13228.3	14080.6	16335.2	21993.5	30693.5	32986.4	27741.8	27450.6	26219.0	26272.6
62.5°	9198.1	9081.3	9665.5	11314.7	17871.4	30973.2	40320.7	32722.0	31764.3	28893.0	28657.4
65°	7014.5	6987.6	7250.1	7774.9	10824.3	27626.9	44689.9	41092.6	39596.7	32038.2	31482.7
67.5°	5763.7	5715.8	5974.4	6738.6	6970.4	17823.5	44785.7	50804.1	49334.9	35953.4	34750.5
70°	4738.9	4685.2	4926.6	5913.1	6441.7	9039.1	37692.7	56491.1	56412.6	40910.7	37217.6
71°	4248.5	4210.2	4499.4	5595.1	6328.7	7533.6	32543.9	56506.5	56742.1	42588.6	37072.1
72.5°	3459.3	3472.8	3779.2	4980.2	6244.4	6652.4	23918.5	53872.7	54370.7	44188.1	35748.5
75°	2298.6	2310.1	2712.3	3830.9	6054.8	6508.8	13145.9	45205.2	46120.8	43230.3	32620.5
77.5°	1543.9	1540.0	1814.0	2628.0	5275.2	6508.8	7707.9	33810.0	34815.6	34398.1	25148.2
80°	1063.1	1055.4	1248.9	1814.0	3993.8	6587.3	5959.0	23694.4	23999.0	18576.3	10221.0
82.5°	651.3	657.0	816.0	1281.5	2718.1	5928.4	5625.7	12919.9	12588.5	5210.1	2553.3
85°	373.5	371.6	521.0	867.7	1745.0	5003.2	5485.9	5560.6	5100.9	1568.8	923.3
87.5°	134.1	143.7	279.7	480.8	999.9	3484.2	4654.6	2892.4	2607.0	708.7	417.6
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°	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2	12709.2
2.5°	12693.8	12705.3	12691.9	12615.3	12550.2	12444.8	12385.4	12303.1	12278.2	12266.7	12297.3
5°	12741.7	12745.6	12632.5	12431.4	12205.4	11939.1	11747.6	11512.0	11400.9	11353.0	11383.7
7.5°	12785.8	12768.5	12521.4	12136.4	11718.9	11255.3	10843.5	10466.1	10245.9	10155.8	10163.5
10°	12791.5	12718.7	12322.2	11726.5	11079.1	10399.1	9767.0	9184.7	8816.9	8577.5	8650.3
12.5°	12732.2	12609.6	12029.2	11195.9	10297.6	9370.5	8516.2	7642.7	7117.9	6874.6	6882.3
15°	12686.2	12464.0	11669.1	10571.5	9364.7	8136.9	6970.4	5943.7	5384.4	5135.4	5018.5
17.5°	12647.9	12306.9	11251.5	9868.5	8263.4	6706.1	5303.9	4388.3	4081.9	4009.1	3978.4
20°	12594.2	12140.3	10786.0	9054.4	7008.7	5104.7	3873.1	3421.0	3423.0	3507.2	3518.7
22.5°	12519.5	11950.6	10289.9	8140.8	5662.1	3717.9	3036.0	2905.8	3037.9	3198.8	3227.6
25°	12408.4	11726.5	9738.3	7131.3	4317.5	2857.9	2593.6	2587.8	2748.7	2917.3	2942.2
27.5°	12251.4	11433.5	9125.3	6047.1	3181.6	2428.8	2323.5	2363.7	2482.5	2605.0	2614.6
30°	12040.7	11092.5	8449.2	4903.6	2493.9	2162.6	2151.1	2187.5	2260.3	2346.5	2354.1
32.5°	11808.9	10745.8	7727.0	3796.5	2135.8	2018.9	2030.4	2047.6	2082.1	2116.6	2124.3
35°	11598.2	10391.4	6987.6	2884.7	1965.3	1925.1	1917.4	1913.6	1917.4	1905.9	1907.8
37.5°	11462.2	10098.4	6217.6	2296.7	1867.6	1842.7	1819.7	1791.0	1758.4	1739.2	1743.1
40°	11412.4	9880.0	5438.0	1984.4	1787.1	1769.9	1725.8	1664.5	1626.2	1614.7	1614.7
42.5°	11546.5	9767.0	4685.2	1827.4	1720.1	1691.4	1618.6	1547.7	1519.0	1517.1	1515.1
45°	11956.4	9813.0	3968.9	1741.2	1658.8	1603.3	1507.5	1448.1	1428.9	1432.8	1430.9
47.5°	12691.9	10102.2	3355.9	1683.7	1597.5	1524.7	1417.5	1369.6	1346.6	1346.6	1348.5
50°	13942.7	10778.4	2867.5	1635.8	1545.8	1451.9	1352.3	1292.9	1262.3	1260.4	1260.4
52.5°	15764.3	11988.9	2562.9	1595.6	1488.3	1386.8	1287.2	1212.5	1176.1	1168.4	1164.6
55°	18047.6	13724.4	2478.6	1568.8	1411.7	1315.9	1208.7	1134.0	1093.7	1076.5	1074.6
57.5°	20600.9	15835.2	2645.3	1536.2	1333.2	1231.6	1122.5	1051.6	1009.5	988.4	986.5
60°	23184.9	18139.5	3325.3	1490.2	1268.0	1139.7	1034.4	969.2	927.1	904.1	900.3
62.5°	25772.7	20568.4	4714.0	1486.4	1222.1	1051.6	944.3	888.8	848.6	823.7	817.9
65°	28691.9	23227.0	6292.3	1587.9	1206.7	971.1	852.4	808.3	773.9	750.9	749.0
67.5°	32044.0	26228.6	6141.0	1796.7	1258.5	898.4	766.2	731.7	706.8	687.7	685.7
70°	33616.6	25759.3	3817.5	1944.2	1331.3	827.5	683.8	658.9	639.8	626.4	620.6
71°	32957.6	24458.7	3200.8	1927.0	1323.6	796.8	651.3	632.1	613.0	601.5	595.7
72.5°	31160.9	22305.7	2670.2	1792.9	1237.4	741.3	609.1	590.0	572.7	559.3	555.5
75°	27962.1	19920.9	2137.7	1432.8	986.5	626.4	534.4	513.3	499.9	492.3	484.6
77.5°	20554.9	14216.6	1653.1	1132.0	726.0	511.4	455.9	440.6	427.2	415.7	409.9
80°	7874.5	5507.0	1112.9	844.7	532.5	404.2	367.8	360.1	346.7	339.0	339.0
82.5°	2120.4	1645.4	593.8	511.4	356.3	295.0	281.6	277.7	266.3	250.9	252.8
85°	858.1	726.0	333.3	281.6	218.4	174.3	189.6	191.5	178.1	159.0	160.9
87.5°	377.3	308.4	185.8	124.5	95.8	67.0	86.2	86.2	78.5	65.1	59.4
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)