

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: P383473

Luminaire Tested: **GAN-SA7D-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383473
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-SA7D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 50082.8 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

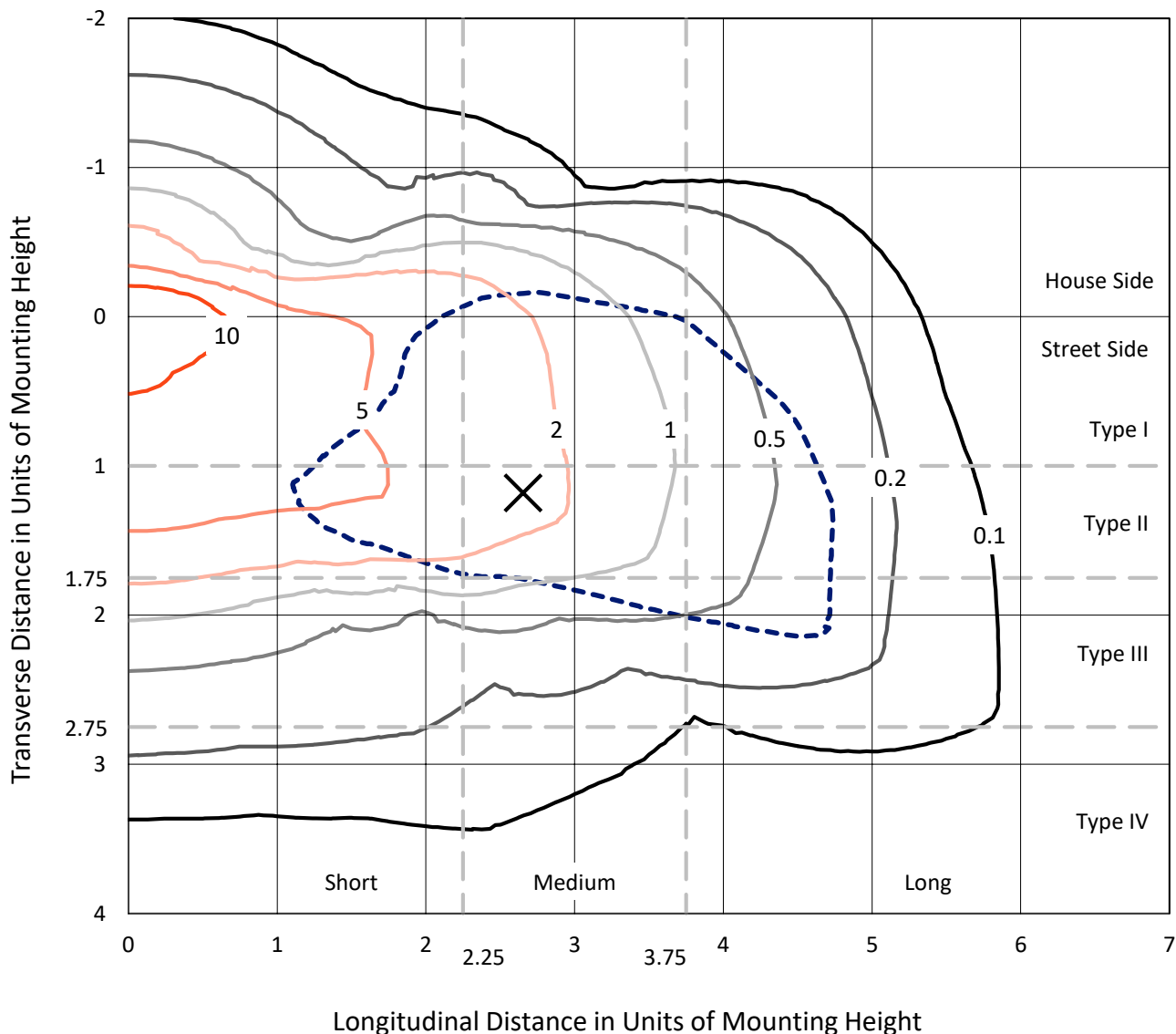
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

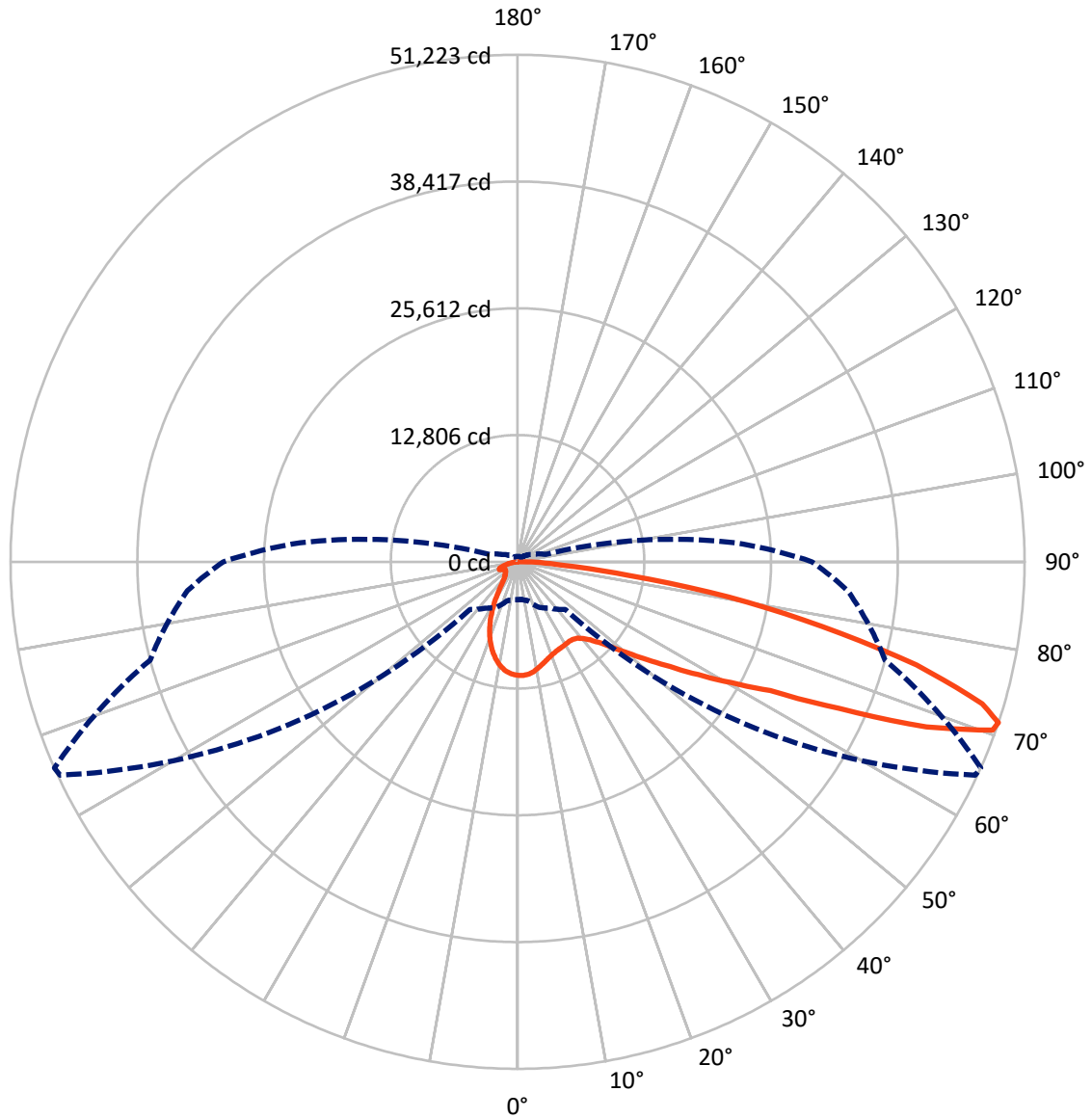
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 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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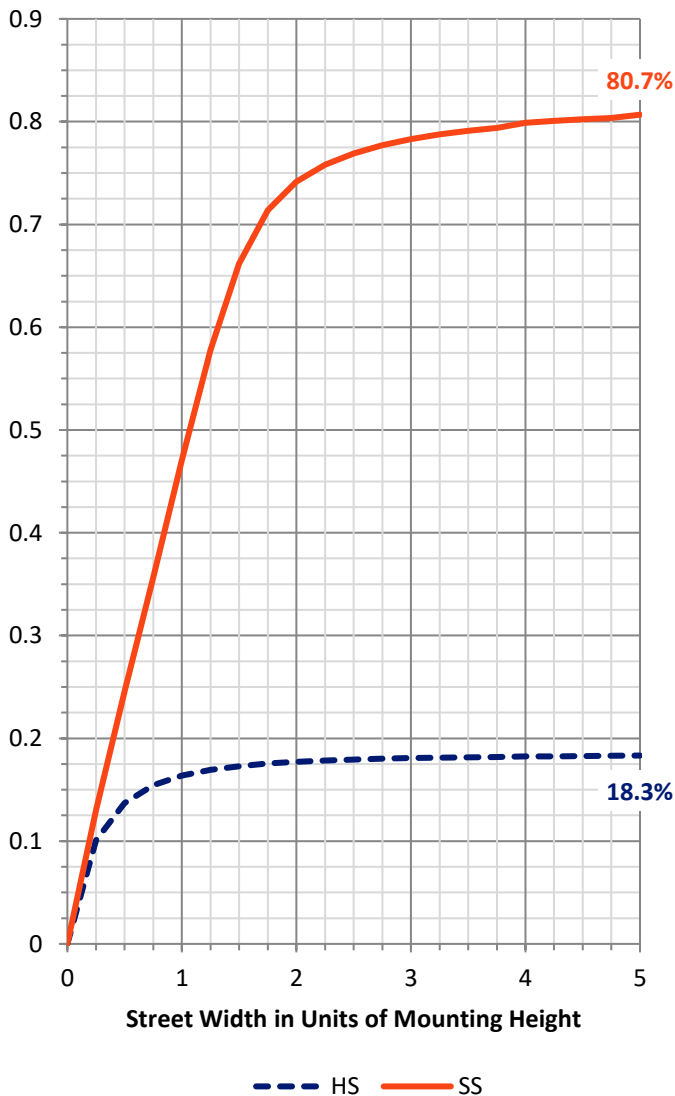
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9281.7	0.0	9281.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	40801.1	0.0	40801.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	50082.8	0.0	50082.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.9	2.0
10°-20°	2422.2	4.8
20°-30°	3253.6	6.5
30°-40°	4280.0	8.5
40°-50°	6226.3	12.4
50°-60°	9726.2	19.4
60°-70°	12183.6	24.3
70°-80°	9293.4	18.6
80°-90°	1687.6	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°	50082.8	100.0
0°-180°	50082.8	100.0

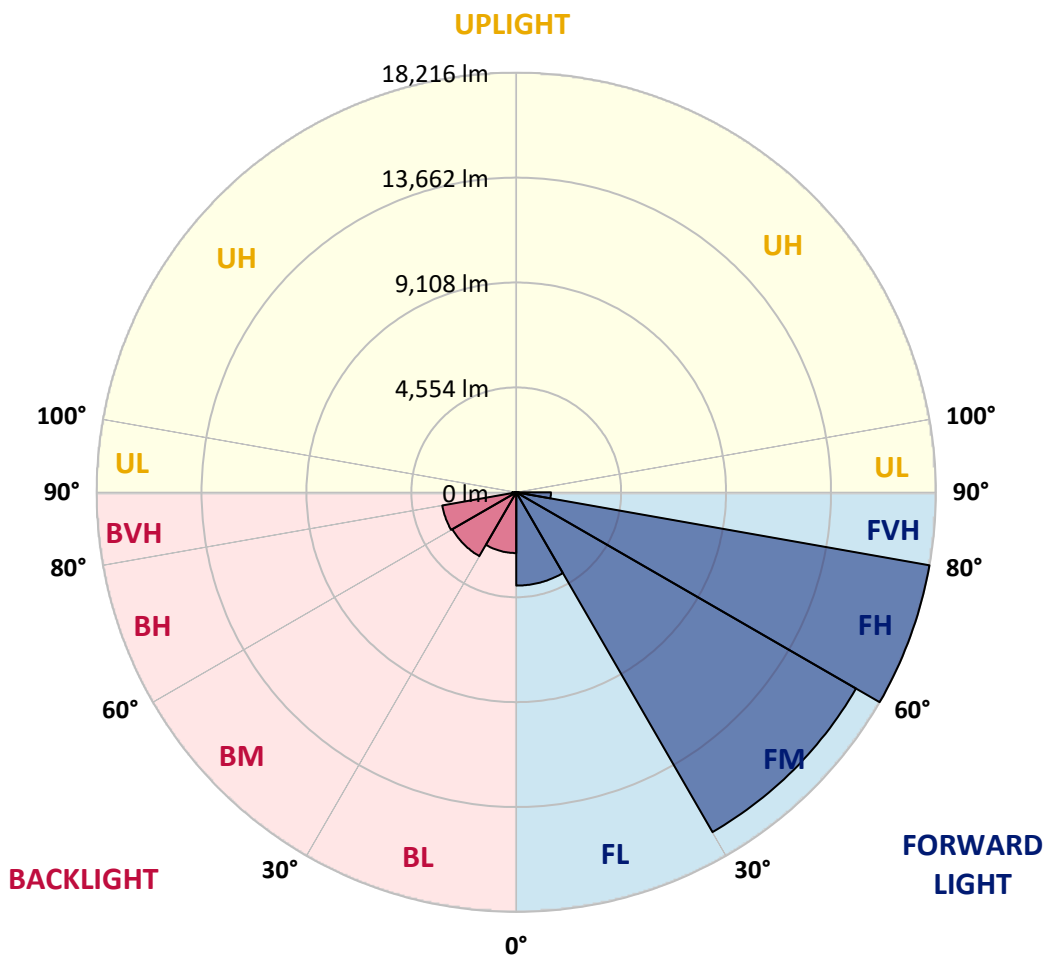


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4049.9	8.1			
FM (30°-60°)	17030.7	34.0			
FH (60°-80°)	18215.6	36.4			G5
FVH (80°-90°)	1504.9	3.0			G5
BL (0°-30°)	2635.8	5.3	B4/5000		
BM (30°-60°)	3201.9	6.4	B3/5000		
BH (60°-80°)	3261.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	182.7	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°	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0
2.5°	11260.3	11243.0	11294.9	11348.5	11369.3	11403.8	11455.7	11485.1	11483.4	11488.6	11471.3
5°	10513.4	10490.8	10594.6	10679.4	10841.8	11025.1	11248.3	11407.3	11410.7	11500.7	11524.8
7.5°	9806.1	9790.6	9909.8	10046.5	10234.9	10515.0	10876.5	11218.8	11239.6	11483.4	11568.1
10°	9238.9	9235.5	9351.3	9500.0	9719.6	10032.6	10447.6	10949.0	10980.2	11400.4	11575.0
12.5°	8796.2	8803.1	8903.5	9072.9	9304.7	9631.5	10081.0	10646.5	10696.6	11268.9	11535.3
15°	8469.4	8497.1	8578.3	8749.6	8977.8	9309.8	9771.5	10366.4	10442.5	11121.9	11512.8
17.5°	8282.7	8313.8	8370.9	8512.7	8727.1	9047.0	9484.5	10136.4	10205.5	11009.6	11514.5
20°	8227.3	8253.3	8286.1	8372.6	8554.2	8844.7	9257.9	9928.9	10003.2	10919.7	11531.8
22.5°	8336.3	8355.3	8358.8	8351.9	8462.6	8699.4	9093.7	9776.7	9856.2	10860.9	11543.9
25°	8569.8	8595.7	8576.7	8512.7	8476.3	8621.6	9008.9	9676.4	9755.9	10817.7	11519.7
27.5°	8920.8	8924.2	8908.7	8825.7	8654.4	8630.2	8983.0	9617.6	9693.7	10767.5	11469.6
30°	9398.0	9420.5	9392.8	9280.4	9000.3	8768.6	9014.1	9560.6	9629.7	10703.5	11388.3
32.5°	9956.6	10011.9	10010.1	9892.6	9491.4	9078.1	9142.1	9526.0	9579.6	10636.0	11289.7
35°	10535.8	10611.9	10753.7	10703.5	10207.2	9567.5	9387.7	9581.3	9617.6	10627.5	11220.6
37.5°	11137.6	11213.6	11505.8	11640.7	11059.7	10267.8	9774.9	9776.7	9794.0	10732.9	11215.4
40°	11766.9	11848.3	12287.4	12638.5	12164.7	11154.8	10399.1	10184.8	10165.8	10992.3	11317.4
42.5°	12648.8	12721.5	13248.8	13696.7	13390.6	12290.9	11262.0	10814.1	10774.4	11500.7	11644.2
45°	13764.2	13826.4	14386.6	14865.6	14708.3	13587.7	12346.3	11680.5	11673.6	12347.9	12306.5
47.5°	15090.4	15138.9	15642.0	16105.4	16162.4	15080.1	13708.8	13017.2	12904.7	13510.0	13331.8
50°	16472.0	16525.7	16868.0	17366.0	17789.7	17077.2	15462.2	14654.6	14504.2	15043.7	14784.3
52.5°	17386.8	17457.7	17755.0	18386.2	19619.0	19266.4	17535.5	16639.8	16411.4	16902.6	16703.7
55°	16978.7	17137.8	17592.5	18604.0	21081.9	22610.5	20092.9	18955.1	18697.5	19105.5	18987.9
57.5°	15123.3	15341.1	15961.9	17523.3	21287.7	25557.0	23959.3	21682.0	21500.4	21382.8	21436.4
60°	11732.4	11941.6	12711.1	14746.3	19854.3	27708.1	29777.9	25043.4	24780.7	23668.8	23717.2
62.5°	8303.4	8198.0	8725.3	10214.1	16133.1	27960.6	36398.9	29539.3	28674.7	26082.7	25870.0
65°	6332.2	6308.0	6544.9	7018.7	9771.5	24939.8	40343.1	37095.7	35745.3	28921.9	28420.5
67.5°	5203.1	5159.8	5393.3	6083.2	6292.4	16089.9	40429.5	45862.6	44536.4	32456.4	31370.5
70°	4277.9	4229.5	4447.4	5338.0	5815.2	8159.9	34026.5	50996.5	50925.6	36931.5	33597.7
71°	3835.3	3800.7	4061.8	5050.9	5713.2	6800.8	29378.5	51010.3	51223.0	38446.2	33466.2
72.5°	3122.8	3134.9	3411.6	4495.8	5637.1	6005.4	21592.1	48632.7	49082.3	39890.1	32271.4
75°	2075.0	2085.4	2448.5	3458.4	5465.9	5875.7	11867.3	40808.2	41634.8	39025.5	29447.6
77.5°	1393.7	1390.2	1637.5	2372.4	4762.1	5875.7	6958.2	30521.5	31429.3	31052.3	22702.2
80°	959.7	952.8	1127.5	1637.5	3605.3	5946.6	5379.4	21389.7	21664.7	16769.4	9226.8
82.5°	587.9	593.1	736.7	1156.8	2453.7	5351.7	5078.5	11663.2	11364.0	4703.3	2304.9
85°	337.2	335.5	470.3	783.3	1575.2	4516.6	4952.3	5019.7	4604.7	1416.1	833.5
87.5°	121.0	129.7	252.4	434.0	902.7	3145.4	4201.8	2611.0	2353.4	639.8	377.0
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°	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0	11473.0
2.5°	11459.2	11469.6	11457.5	11388.3	11329.5	11234.4	11180.8	11106.4	11083.9	11073.6	11101.3
5°	11502.4	11505.8	11403.8	11222.3	11018.3	10777.9	10604.9	10392.3	10292.0	10248.8	10276.5
7.5°	11542.2	11526.6	11303.6	10956.0	10579.0	10160.6	9788.8	9448.1	9249.3	9168.0	9174.9
10°	11547.4	11481.6	11123.7	10585.9	10001.5	9387.7	8817.0	8291.3	7959.3	7743.2	7808.9
12.5°	11493.7	11383.0	10859.1	10106.9	9296.0	8459.1	7687.9	6899.3	6425.5	6206.0	6212.9
15°	11452.3	11251.7	10534.0	9543.2	8453.9	7345.4	6292.4	5365.6	4860.7	4635.8	4530.4
17.5°	11417.7	11109.9	10157.1	8908.7	7459.6	6053.8	4788.1	3961.5	3684.8	3619.2	3591.5
20°	11369.3	10959.5	9736.9	8173.8	6327.0	4608.2	3496.4	3088.3	3090.0	3166.1	3176.5
22.5°	11301.8	10788.3	9289.0	7349.0	5111.4	3356.3	2740.7	2623.1	2742.5	2887.7	2913.6
25°	11201.5	10585.9	8791.1	6437.6	3897.5	2579.9	2341.3	2336.1	2481.4	2633.5	2656.0
27.5°	11059.7	10321.4	8237.8	5459.0	2872.1	2192.6	2097.5	2133.8	2241.0	2351.7	2360.3
30°	10869.5	10013.6	7627.3	4426.6	2251.4	1952.2	1941.8	1974.7	2040.4	2118.2	2125.1
32.5°	10660.3	9700.6	6975.4	3427.2	1928.0	1822.6	1832.9	1848.5	1879.6	1910.7	1917.7
35°	10470.1	9380.7	6308.0	2604.1	1774.1	1737.8	1730.9	1727.5	1730.9	1720.5	1722.2
37.5°	10347.4	9116.1	5612.9	2073.3	1685.9	1663.5	1642.7	1616.8	1587.4	1570.1	1573.6
40°	10302.4	8919.0	4909.1	1791.5	1613.3	1597.8	1558.0	1502.7	1468.0	1457.7	1457.7
42.5°	10423.4	8817.0	4229.5	1649.6	1552.8	1526.8	1461.1	1397.1	1371.2	1369.5	1367.8
45°	10793.5	8858.5	3582.8	1571.8	1497.5	1447.3	1360.9	1307.2	1289.9	1293.5	1291.7
47.5°	11457.5	9119.6	3029.5	1519.9	1442.1	1376.5	1279.6	1236.3	1215.6	1215.6	1217.3
50°	12586.6	9730.0	2588.6	1476.7	1395.5	1310.7	1220.8	1167.2	1139.6	1137.8	1137.8
52.5°	14231.0	10822.8	2313.6	1440.4	1343.6	1251.9	1162.0	1094.6	1061.7	1054.8	1051.3
55°	16292.2	12389.5	2237.6	1416.1	1274.4	1187.9	1091.1	1023.7	987.3	971.8	970.0
57.5°	18597.1	14295.0	2387.9	1386.8	1203.5	1111.9	1013.2	949.3	911.2	892.2	890.6
60°	20929.8	16375.2	3001.8	1345.2	1144.7	1028.9	933.8	875.0	836.9	816.1	812.7
62.5°	23265.9	18567.8	4255.5	1341.8	1103.2	949.3	852.5	802.3	766.0	743.6	738.3
65°	25901.1	20967.8	5680.3	1433.5	1089.4	876.7	769.5	729.7	698.6	677.8	676.1
67.5°	28927.2	23677.4	5543.7	1621.9	1136.0	811.0	691.7	660.6	638.0	620.8	619.0
70°	30346.8	23253.8	3446.3	1755.1	1201.8	747.0	617.3	594.8	577.6	565.4	560.2
71°	29752.0	22079.7	2889.5	1739.6	1194.9	719.3	587.9	570.7	553.3	543.0	537.8
72.5°	28130.0	20136.1	2410.5	1618.5	1117.0	669.2	549.9	532.6	517.0	504.9	501.5
75°	25242.3	17983.3	1929.7	1293.5	890.6	565.4	482.4	463.4	451.3	444.4	437.5
77.5°	18555.7	12833.8	1492.2	1021.9	655.3	461.7	411.6	397.7	385.6	375.2	370.0
80°	7108.5	4971.4	1004.7	762.6	480.7	364.9	332.0	325.1	313.0	306.1	306.1
82.5°	1914.1	1485.4	536.0	461.7	321.7	266.3	254.2	250.8	240.3	226.6	228.2
85°	774.7	655.3	300.9	254.2	197.1	157.3	171.2	172.9	160.8	143.6	145.2
87.5°	340.7	278.4	167.8	112.4	86.4	60.6	77.8	77.8	70.9	58.8	53.6
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)