

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: McGRAW-EDISON

Report Number: P383587

Luminaire Tested: **GLEON-SA8D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57932 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

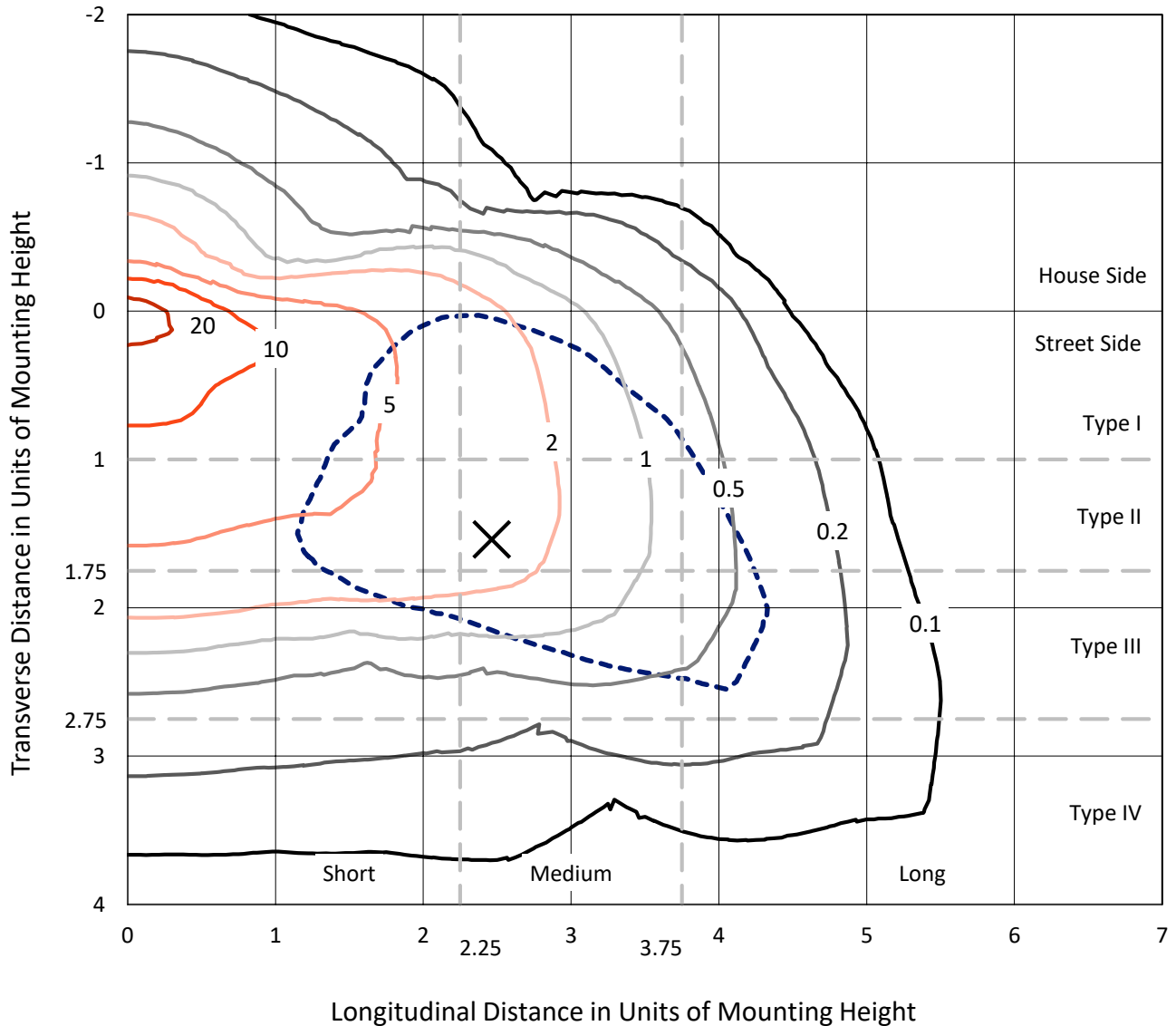
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

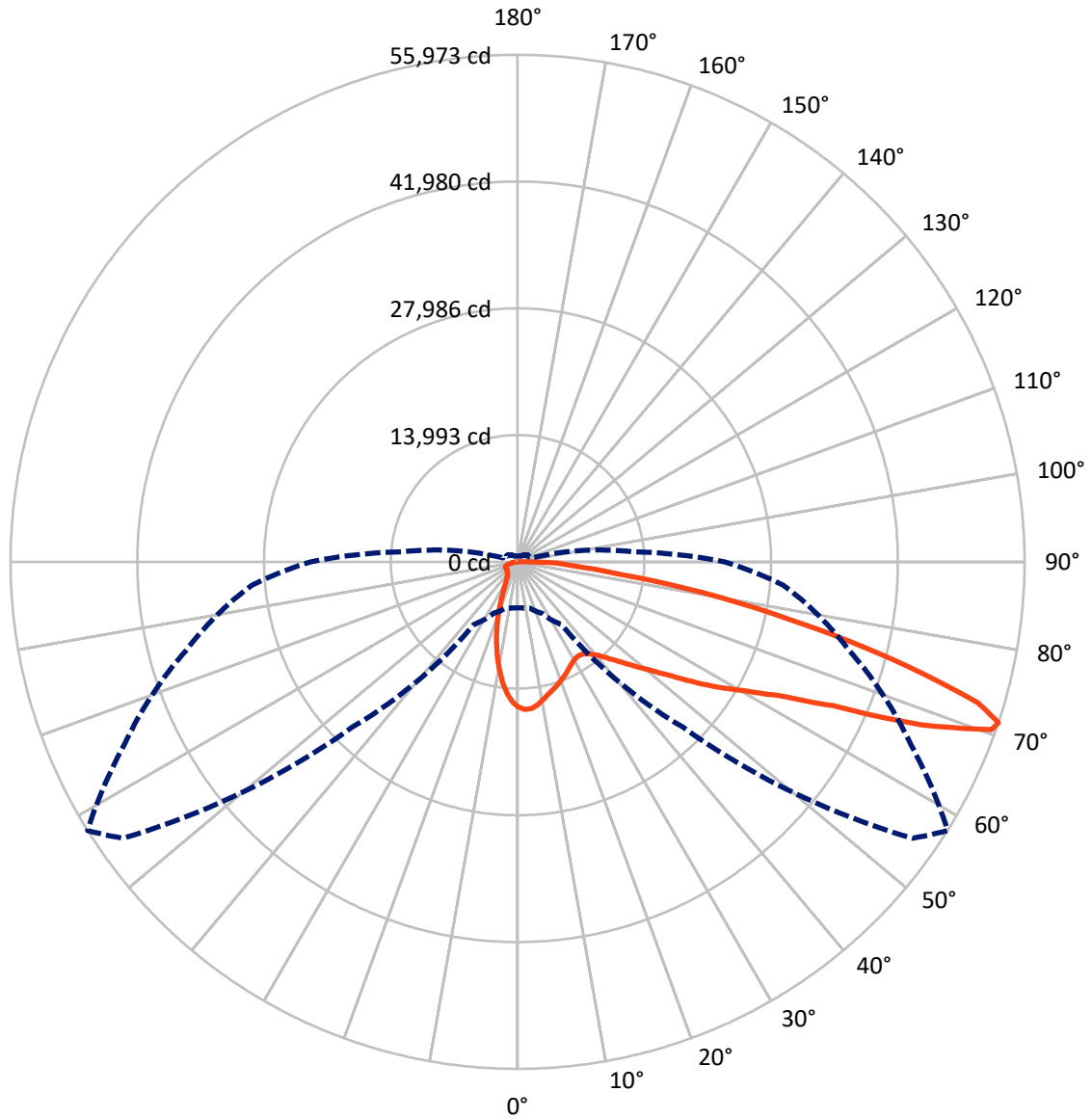
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8661.2	0.0	8661.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	49270.8	0.0	49270.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	57932.0	0.0	57932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1384.7	2.4
10°-20°	3079.1	5.3
20°-30°	3913.2	6.8
30°-40°	4984.6	8.6
40°-50°	7068.5	12.2
50°-60°	10938.7	18.9
60°-70°	14891.7	25.7
70°-80°	9934.5	17.1
80°-90°	1736.9	3.0
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°	57932.0	100.0
0°-180°	57932.0	100.0

Coefficient of Utilization

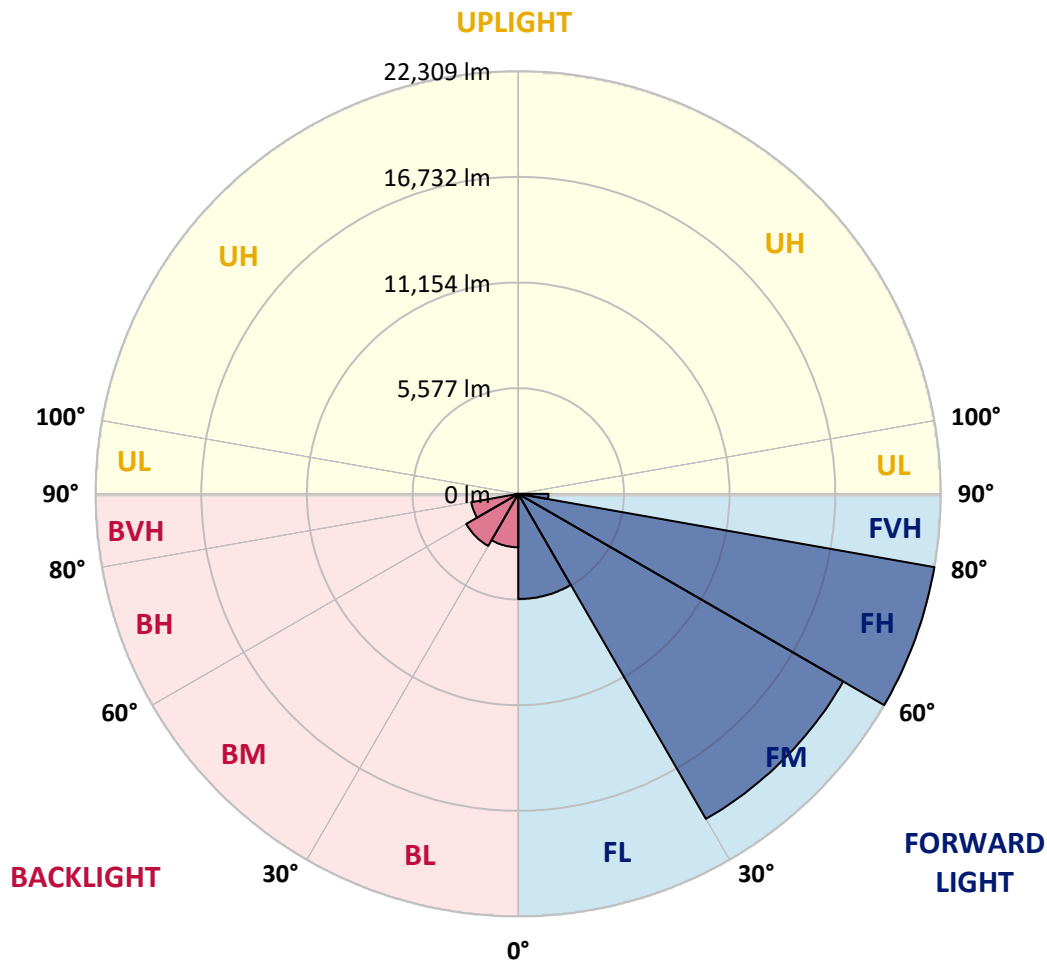


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5553.7	9.6			
FM (30°-60°)	19815.6	34.2			
FH (60°-80°)	22308.9	38.5			G5
FVH (80°-90°)	1592.6	2.7			G5
BL (0°-30°)	2823.3	4.9	B4/5000		
BM (30°-60°)	3176.3	5.5	B3/5000		
BH (60°-80°)	2517.3	4.3	B4/5000		G4/5000
BVH (80°-90°)	144.3	0.2			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°	58°	65°	75°	85°
0°	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0
2.5°	16476.8	16454.7	16462.7	16446.6	16408.2	16369.9	16313.4	16323.5	16244.8	16127.7	15982.5
5°	16166.1	16158.0	16218.5	16252.8	16281.1	16258.9	16242.7	16263.0	16147.9	15986.5	15734.2
7.5°	15514.3	15425.5	15502.2	15617.2	15726.1	15808.9	15917.8	15932.0	15859.3	15689.8	15358.9
10°	14588.0	14503.3	14616.3	14795.9	15013.8	15211.5	15431.6	15471.9	15486.0	15332.6	14931.0
12.5°	13627.4	13562.9	13675.9	13928.1	14289.4	14594.1	14945.2	15005.7	15130.8	15027.9	14535.5
15°	12767.8	12743.6	12880.8	13129.0	13544.7	14010.8	14517.3	14628.4	14840.2	14805.9	14226.8
17.5°	12025.2	12019.1	12124.0	12384.4	12844.5	13433.8	14091.6	14279.2	14594.1	14634.4	13972.6
20°	11472.2	11460.1	11532.7	11724.5	12198.7	12866.6	13631.5	13889.7	14343.8	14485.1	13710.1
22.5°	11175.6	11173.5	11175.6	11266.4	11653.8	12275.4	13183.4	13498.3	14099.6	14366.0	13419.6
25°	11125.1	11119.0	11074.7	11064.6	11284.6	11781.0	12739.6	13086.7	13867.6	14283.3	13143.1
27.5°	11256.4	11264.4	11205.9	11111.0	11155.4	11456.1	12354.1	12725.4	13681.9	14267.1	12951.4
30°	11528.7	11524.7	11474.2	11375.4	11288.6	11335.0	12079.7	12451.0	13556.8	14337.7	12820.2
32.5°	11829.4	11851.6	11841.6	11787.1	11657.9	11472.2	11996.9	12360.1	13520.5	14507.3	12763.8
35°	12190.6	12214.8	12287.5	12329.9	12178.5	11879.8	12174.5	12489.3	13625.5	14826.1	12854.5
37.5°	12533.7	12596.3	12800.0	12979.6	12850.5	12517.6	12646.7	12870.7	13950.3	15328.6	13098.8
40°	12929.2	12983.7	13316.7	13698.0	13677.9	13332.8	13407.5	13556.8	14523.4	16049.0	13540.7
42.5°	13318.7	13427.7	13910.0	14450.8	14606.2	14301.5	14420.5	14499.2	15330.7	17003.5	14311.6
45°	13837.3	13954.4	14624.4	15276.2	15639.4	15467.9	15657.5	15687.8	16345.7	18303.1	15431.6
47.5°	14622.3	14755.5	15536.4	16220.6	16775.5	16793.7	17106.5	17094.4	17613.0	19790.4	16842.1
50°	15845.3	16036.9	16676.7	17316.4	17990.3	18365.6	18783.4	18724.9	19132.5	21374.5	18466.5
52.5°	17447.5	17536.3	18010.5	18482.7	19320.2	20161.7	20761.0	20708.6	20855.9	23003.0	20311.0
55°	19108.3	19174.9	19370.6	19628.9	20755.0	22127.1	23394.5	23311.7	22938.4	24694.0	22133.2
57.5°	20601.5	20736.8	20872.0	20978.9	22199.8	24181.5	26088.5	26094.5	25198.5	26518.4	24016.0
60°	20833.7	20952.7	21846.7	22690.2	24671.9	26921.9	28972.2	28911.6	27537.4	28498.0	26114.7
62.5°	18416.1	18684.5	20177.8	22421.8	27053.1	31934.6	32650.9	32576.3	30334.4	30937.7	28558.5
65°	13197.6	13502.3	15304.4	18676.4	25898.8	37457.8	39290.2	38285.2	34148.3	33938.4	31420.0
67.5°	7613.8	7686.5	8467.5	11175.6	19719.7	37746.4	49418.4	48011.9	40071.1	37342.8	32820.5
70°	5630.2	5628.1	5813.8	6877.2	10671.1	30806.6	54235.4	55496.6	46306.7	38462.8	30840.8
71°	5091.4	5097.4	5305.3	6259.8	8451.3	25785.8	53212.2	55972.8	47949.3	37909.8	29408.1
72.5°	4354.8	4375.0	4663.5	5614.1	7109.4	17782.5	48804.9	53115.4	48728.2	36545.6	27166.1
75°	3303.5	3349.8	3749.4	4732.2	6497.9	9018.4	35819.2	42414.0	43287.8	32247.4	20185.9
77.5°	2357.0	2409.4	2861.5	3979.5	6177.1	6796.6	23987.7	30937.7	31855.9	20666.2	9105.1
80°	1489.3	1551.9	1892.9	3166.2	5803.7	6453.5	15074.3	20795.3	17370.8	6613.0	2316.7
82.5°	873.8	922.2	1174.5	2068.4	4740.3	6215.4	8869.1	11526.7	6760.2	1997.8	1053.4
85°	506.5	528.7	732.6	1317.8	3442.7	5866.2	6516.1	6443.4	2934.2	976.7	498.5
87.5°	236.1	262.3	433.8	688.1	1911.1	4251.9	5149.9	4449.6	1824.2	458.0	234.1
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°	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0	16051.0
2.5°	15911.8	15877.5	15734.2	15607.1	15473.9	15300.4	15108.7	15084.5	14967.4	14989.6	14949.2
5°	15597.0	15510.3	15165.1	14852.3	14483.1	14152.2	13793.0	13627.4	13389.3	13373.2	13312.7
7.5°	15147.0	14985.5	14450.8	13857.5	13264.2	12699.1	12140.2	11772.9	11397.6	11238.2	11224.0
10°	14640.5	14366.0	13579.0	12701.2	11845.6	11020.2	10221.1	9629.8	9097.0	8844.9	8834.7
12.5°	14160.2	13754.6	12674.9	11480.3	10309.9	9240.3	8144.6	7367.7	6699.7	6475.7	6380.8
15°	13752.5	13181.5	11795.1	10267.5	8846.8	7361.6	6114.5	5297.2	4679.7	4465.8	4425.4
17.5°	13357.0	12622.5	10893.1	9042.6	7325.3	5692.7	4443.6	3836.2	3507.3	3420.5	3418.5
20°	12963.5	12047.3	9950.7	7789.4	5854.1	4257.9	3416.5	3144.0	3033.0	3023.0	3006.8
22.5°	12517.6	11437.9	8959.8	6532.2	4568.7	3347.8	2903.9	2794.9	2780.8	2817.1	2817.1
25°	12099.9	10832.5	7954.9	5301.3	3553.7	2792.9	2593.1	2570.9	2609.3	2673.8	2679.9
27.5°	11710.4	10249.4	6974.1	4207.5	2847.4	2459.9	2377.2	2403.4	2472.0	2546.7	2548.7
30°	11389.5	9698.4	6021.6	3315.6	2405.4	2211.7	2197.6	2250.1	2324.7	2383.3	2397.3
32.5°	11141.3	9228.3	5101.4	2665.7	2116.8	2026.0	2038.1	2082.6	2129.0	2161.3	2183.5
35°	11026.3	8824.6	4251.9	2248.0	1933.2	1882.8	1899.0	1923.2	1943.3	1967.5	1985.7
37.5°	11046.5	8511.8	3493.1	1987.7	1810.1	1783.9	1783.9	1783.9	1783.9	1796.0	1798.0
40°	11234.1	8332.2	2875.6	1822.2	1727.4	1699.1	1677.0	1656.8	1640.6	1648.7	1644.6
42.5°	11714.4	8316.1	2423.6	1717.3	1660.8	1614.4	1570.0	1541.7	1521.6	1529.6	1533.7
45°	12529.7	8517.9	2118.9	1642.6	1598.3	1527.6	1471.1	1440.8	1426.8	1452.9	1456.9
47.5°	13585.0	8957.9	1933.2	1588.2	1539.8	1446.9	1386.3	1358.1	1362.1	1400.5	1410.5
50°	14945.2	9672.2	1844.5	1553.8	1499.3	1378.3	1315.7	1291.5	1303.6	1358.1	1370.2
52.5°	16438.5	10701.3	1854.5	1543.8	1473.1	1327.8	1261.2	1233.0	1253.2	1303.6	1313.7
55°	18161.8	11938.4	2022.0	1557.9	1434.8	1295.5	1216.9	1168.4	1184.6	1230.9	1239.1
57.5°	20076.9	13355.0	2359.1	1553.8	1386.3	1265.3	1170.4	1097.8	1109.8	1138.2	1146.2
60°	22070.7	15066.3	2881.6	1565.9	1364.2	1229.0	1107.9	1017.1	1013.1	1037.3	1041.3
62.5°	24464.0	17045.9	3479.0	1574.0	1378.3	1182.5	1025.2	936.3	924.3	930.3	934.3
65°	26930.0	18478.6	3255.0	1541.7	1422.7	1144.2	952.5	857.7	835.4	831.4	833.5
67.5°	27006.7	16943.0	2282.4	1477.2	1440.8	1124.0	898.0	791.1	754.7	740.6	738.6
70°	24219.9	13764.6	1777.9	1408.6	1368.2	1091.8	847.5	736.6	682.1	659.9	657.9
71°	22859.7	12670.9	1685.0	1374.2	1313.7	1059.4	825.4	712.4	655.8	631.6	627.6
72.5°	20726.7	11359.2	1572.0	1319.7	1208.8	976.7	783.0	678.1	619.5	591.3	585.2
75°	14874.6	7428.2	1350.0	1176.5	1000.9	779.0	686.1	609.4	559.0	524.6	520.6
77.5°	5731.1	2956.4	1021.1	978.7	766.8	609.4	565.1	526.7	490.4	456.1	454.0
80°	1771.8	1321.8	744.7	736.6	554.9	454.0	439.9	429.8	415.7	379.4	371.3
82.5°	946.5	758.7	512.5	476.2	363.2	302.7	318.9	322.9	324.9	286.5	282.5
85°	452.0	401.6	288.6	270.4	211.9	169.5	195.7	211.9	213.9	175.6	163.5
87.5°	215.9	209.9	135.2	102.9	78.7	56.5	68.7	84.8	92.8	66.6	58.5
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)