

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: P533701

Luminaire Tested: **GALN-SA9A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20157 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

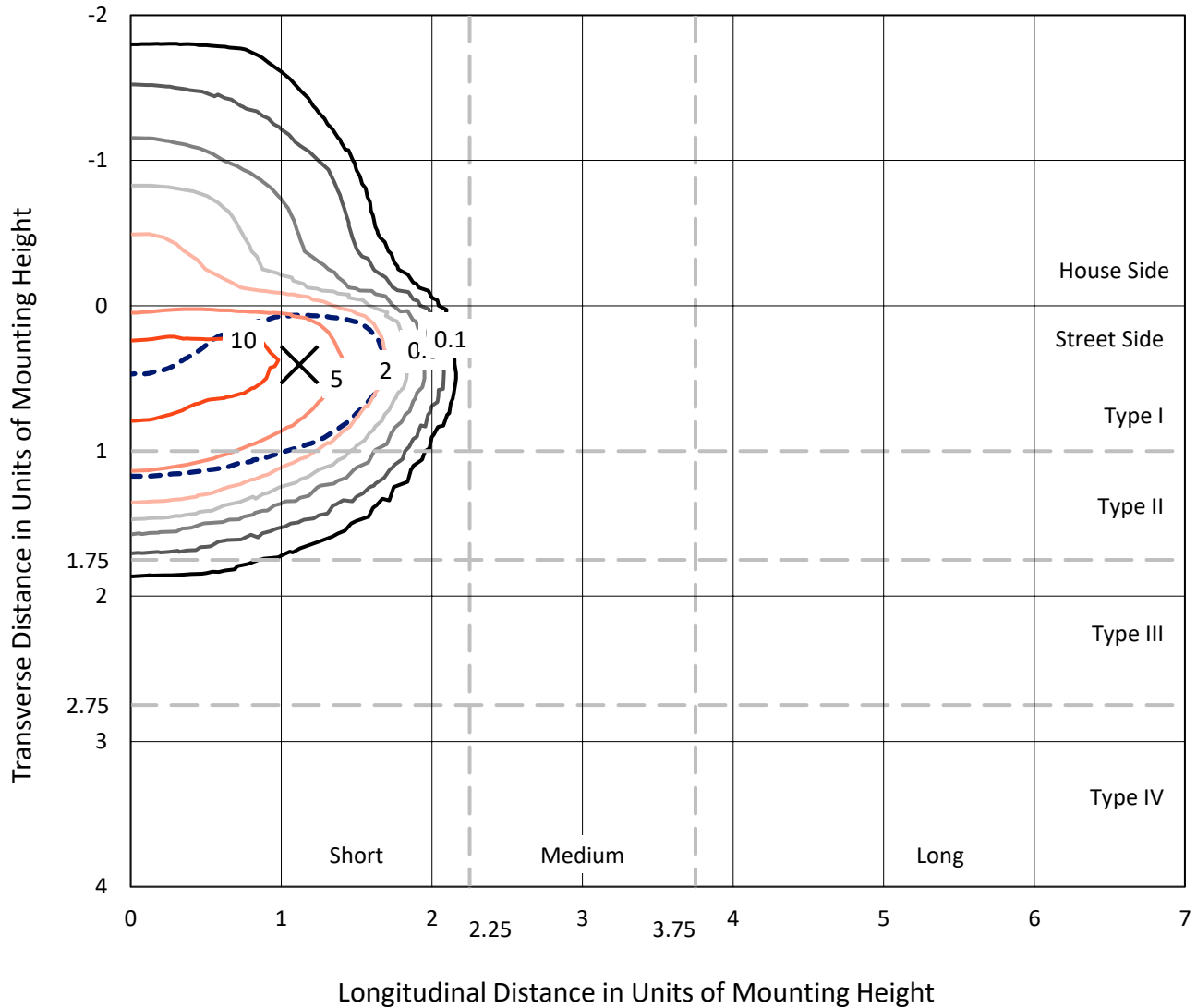
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

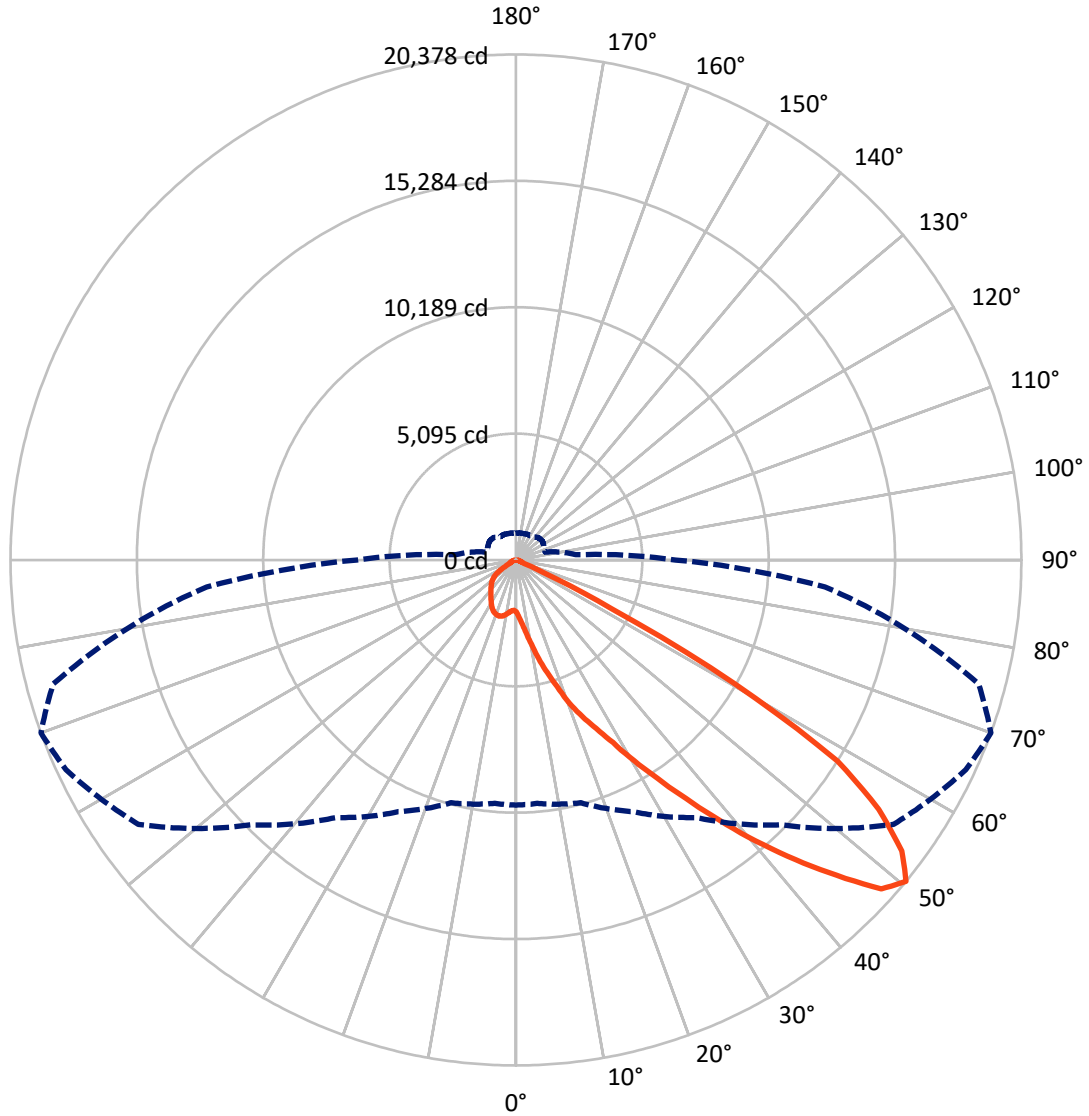
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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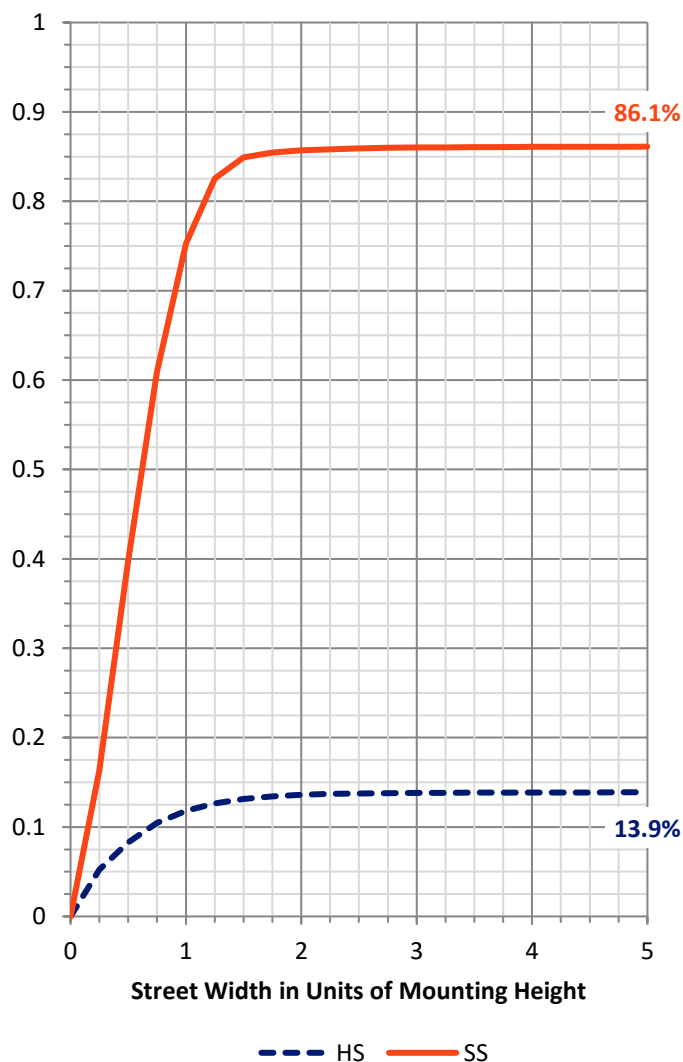
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.1	0.0	2815.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17341.9	0.0	17341.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	20157.0	0.0	20157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.5	1.3
10°-20°	1174.4	5.8
20°-30°	2463.7	12.2
30°-40°	4246.6	21.1
40°-50°	6206.4	30.8
50°-60°	4833.8	24.0
60°-70°	819.0	4.1
70°-80°	112.5	0.6
80°-90°	29.1	0.1
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°	20157.0	100.0
0°-180°	20157.0	100.0

Coefficient of Utilization



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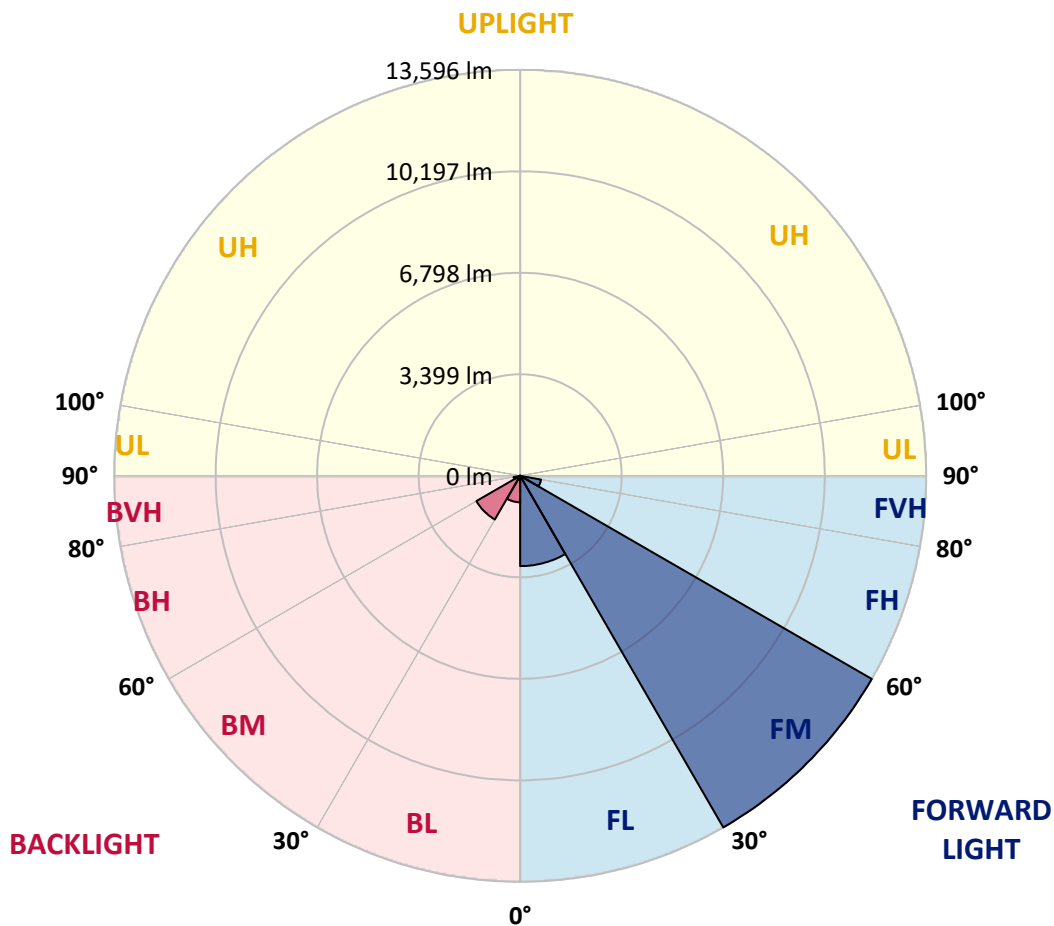
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.8	15.0			
FM (30°-60°)	13595.5	67.4			
FH (60°-80°)	709.1	3.5			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	885.8	4.4	B2/1000		
BM (30°-60°)	1691.2	8.4	B2/2500		
BH (60°-80°)	222.4	1.1	B1/500		G1/500
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9
2.5°	2734.1	2714.2	2671.1	2591.6	2558.5	2478.9	2432.5	2343.1	2286.7	2223.7	2154.1
5°	3851.0	3748.2	3685.3	3595.8	3334.0	3171.6	2903.1	2674.5	2568.4	2452.4	2293.3
7.5°	5004.3	4938.0	4851.8	4659.6	4480.6	4142.6	3681.9	3178.2	2962.8	2763.9	2449.1
10°	5958.7	5773.1	5763.2	5620.7	5425.1	5020.8	4467.4	3841.0	3456.6	3164.9	2671.1
12.5°	6624.8	6455.8	6532.0	6515.5	6333.2	5962.0	5322.4	4493.9	4092.9	3638.9	2899.8
15°	7231.3	7161.7	7138.5	7118.6	7045.7	6770.7	6197.3	5289.3	4709.3	4162.5	3158.3
17.5°	7824.5	7645.6	7731.7	7748.3	7741.7	7493.1	6956.2	6044.9	5362.2	4715.9	3430.1
20°	8351.5	8368.0	8252.1	8228.9	8209.0	8199.0	7675.4	6793.9	6164.2	5295.9	3784.7
22.5°	9027.5	8911.6	9014.3	8948.0	8818.8	8739.2	8338.2	7456.7	6860.1	5995.2	4145.9
25°	9826.2	9919.0	9677.1	9650.6	9508.1	9233.0	8871.8	8199.0	7529.6	6644.7	4537.0
27.5°	10810.5	10648.1	10585.2	10439.3	10180.8	10064.9	9640.6	8964.6	8338.2	7327.4	4914.8
30°	11655.6	11612.5	11297.7	11125.4	10900.0	10896.7	10303.5	10001.9	9392.1	8397.9	5435.1
32.5°	12344.9	12156.0	12040.0	11920.7	11738.5	11788.2	11287.7	11128.7	10515.6	9392.1	6048.2
35°	12805.6	12669.7	12600.1	12417.8	12364.8	12586.9	12378.1	12311.8	11808.1	10790.6	6767.3
37.5°	12951.4	12994.5	12981.2	12752.6	12865.2	13465.1	13733.5	13561.2	13296.1	12265.4	7546.2
40°	13080.7	13110.5	13044.2	13312.6	13634.1	14316.8	15287.8	15002.8	14903.4	13760.0	8629.9
42.5°	13153.6	13130.4	13130.4	13594.3	14081.5	15453.5	16789.1	16600.2	16524.0	15350.8	9882.6
45°	12838.7	12613.4	12855.3	13485.0	14465.9	16013.6	17988.8	18250.6	18141.3	17243.1	11347.4
47.5°	11662.2	11801.4	11937.3	12779.1	13998.7	15841.3	18724.5	19616.0	19818.2	18833.9	12308.5
50°	9882.6	9852.7	10134.4	11195.0	12676.3	15098.9	18582.0	20010.4	20378.3	19311.1	12510.6
52.5°	7188.2	7407.0	7711.9	8765.7	10522.2	13176.8	16742.7	18993.0	19483.5	18724.5	12378.1
55°	4185.7	3943.8	4629.8	5521.3	7178.3	9938.9	14154.4	16835.5	17743.6	17657.4	11708.6
57.5°	1676.9	1623.9	1859.2	2505.4	3744.9	6160.9	10293.5	13833.0	15287.8	16172.7	10290.2
60°	735.7	719.2	845.1	1020.7	1531.1	2840.2	5630.6	8603.3	10121.2	11301.0	7082.2
62.5°	530.3	523.6	586.6	649.6	808.6	1236.2	2366.3	3466.5	4321.6	5219.7	3171.6
65°	427.5	444.1	487.2	520.3	596.5	686.0	835.1	964.4	1183.1	1226.2	699.3
67.5°	348.0	361.2	401.0	437.5	450.7	371.2	384.4	338.0	338.0	301.6	241.9
70°	255.2	258.5	304.9	348.0	278.4	149.1	261.8	261.8	235.3	225.4	205.5
72.5°	188.9	192.2	228.7	215.4	109.4	92.8	192.2	212.1	192.2	182.3	165.7
75°	139.2	142.5	119.3	49.7	46.4	59.7	112.7	145.8	139.2	135.9	125.9
77.5°	26.5	19.9	16.6	23.2	33.1	49.7	72.9	89.5	92.8	99.4	92.8
80°	3.3	3.3	9.9	19.9	36.5	53.0	76.2	86.2	89.5	92.8	86.2
82.5°	0.0	3.3	9.9	19.9	36.5	49.7	66.3	76.2	82.9	86.2	82.9
85°	0.0	3.3	6.6	16.6	29.8	36.5	33.1	23.2	19.9	23.2	16.6
87.5°	0.0	0.0	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6	6.6
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°	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9	2087.9
2.5°	2114.4	2101.1	2054.7	2005.0	1961.9	1981.8	1961.9	1945.4	1952.0	1945.4	1938.7
5°	2230.4	2170.7	2071.3	2028.2	1991.8	1988.4	1978.5	1975.2	1978.5	1978.5	1948.7
7.5°	2339.7	2243.6	2137.6	2091.2	2048.1	2051.4	2028.2	2028.2	2024.9	2008.3	2001.7
10°	2505.4	2376.2	2240.3	2157.5	2104.4	2094.5	2071.3	2048.1	2048.1	2048.1	2015.0
12.5°	2687.7	2525.3	2339.7	2243.6	2180.7	2131.0	2094.5	2087.9	2051.4	2044.8	2028.2
15°	2846.8	2641.3	2406.0	2273.5	2193.9	2127.6	2071.3	2034.8	2018.3	2008.3	1995.1
17.5°	3002.6	2740.7	2442.5	2273.5	2187.3	2111.1	2051.4	2018.3	1978.5	1985.1	1958.6
20°	3211.3	2846.8	2452.4	2230.4	2124.3	2051.4	1971.9	1955.3	1932.1	1912.2	1918.9
22.5°	3413.5	2923.0	2422.6	2177.3	2024.9	1938.7	1899.0	1879.1	1869.1	1852.6	1829.4
25°	3595.8	3005.9	2376.2	2081.2	1918.9	1855.9	1819.4	1816.1	1792.9	1792.9	1749.8
27.5°	3781.4	3035.7	2296.7	1968.6	1826.1	1789.6	1773.0	1766.4	1756.5	1733.3	1703.4
30°	3993.5	3045.6	2180.7	1852.6	1743.2	1703.4	1726.6	1743.2	1700.1	1657.0	1670.3
32.5°	4169.1	3022.4	2041.5	1743.2	1683.6	1663.7	1710.1	1726.6	1676.9	1630.5	1607.3
35°	4381.2	2966.1	1905.6	1657.0	1623.9	1663.7	1703.4	1703.4	1604.0	1547.7	1534.4
37.5°	4702.7	2903.1	1779.7	1584.1	1560.9	1643.8	1696.8	1660.4	1504.6	1435.0	1418.4
40°	5047.3	2863.4	1657.0	1511.2	1527.8	1610.6	1640.5	1527.8	1368.7	1325.6	1312.4
42.5°	5547.8	2783.8	1547.7	1448.3	1498.0	1564.2	1564.2	1362.1	1302.4	1279.2	1275.9
45°	6170.8	2727.5	1451.6	1395.2	1454.9	1471.5	1418.4	1275.9	1232.8	1226.2	1229.5
47.5°	6475.7	2618.1	1352.1	1332.3	1375.3	1378.7	1239.5	1206.3	1169.9	1159.9	1153.3
50°	6429.3	2422.6	1222.9	1249.4	1309.1	1275.9	1130.1	1136.7	1103.6	1100.3	1083.7
52.5°	6104.5	2114.4	1093.6	1156.6	1222.9	1126.8	1040.6	1034.0	1034.0	990.9	974.3
55°	5411.9	1703.4	937.9	1017.4	1097.0	947.8	924.6	918.0	901.4	861.7	851.7
57.5°	4285.1	1249.4	705.9	792.1	931.3	805.3	802.0	772.2	729.1	699.3	699.3
60°	2548.5	719.2	444.1	483.9	616.4	652.9	725.8	712.5	639.6	593.2	580.0
62.5°	1163.2	371.2	281.7	288.3	331.4	424.2	570.0	659.5	556.8	477.2	470.6
65°	391.1	275.1	232.0	222.0	228.7	255.2	341.3	467.3	444.1	367.9	354.6
67.5°	238.6	245.2	218.7	202.2	202.2	198.8	195.5	212.1	261.8	255.2	258.5
70°	205.5	225.4	202.2	182.3	175.6	165.7	139.2	116.0	99.4	116.0	122.6
72.5°	165.7	179.0	172.3	155.8	139.2	125.9	99.4	76.2	56.3	49.7	49.7
75°	122.6	132.6	139.2	119.3	106.1	89.5	72.9	49.7	29.8	19.9	19.9
77.5°	89.5	99.4	102.7	92.8	79.5	63.0	46.4	33.1	16.6	6.6	6.6
80°	76.2	89.5	99.4	92.8	82.9	59.7	43.1	23.2	13.3	3.3	3.3
82.5°	72.9	89.5	99.4	89.5	79.5	56.3	43.1	26.5	9.9	3.3	3.3
85°	16.6	23.2	29.8	36.5	43.1	43.1	33.1	19.9	9.9	3.3	3.3
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	3.3	3.3	0.0
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)