

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: P529619

Luminaire Tested: **GALN-SA4D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529619
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-SA4D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 18854 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

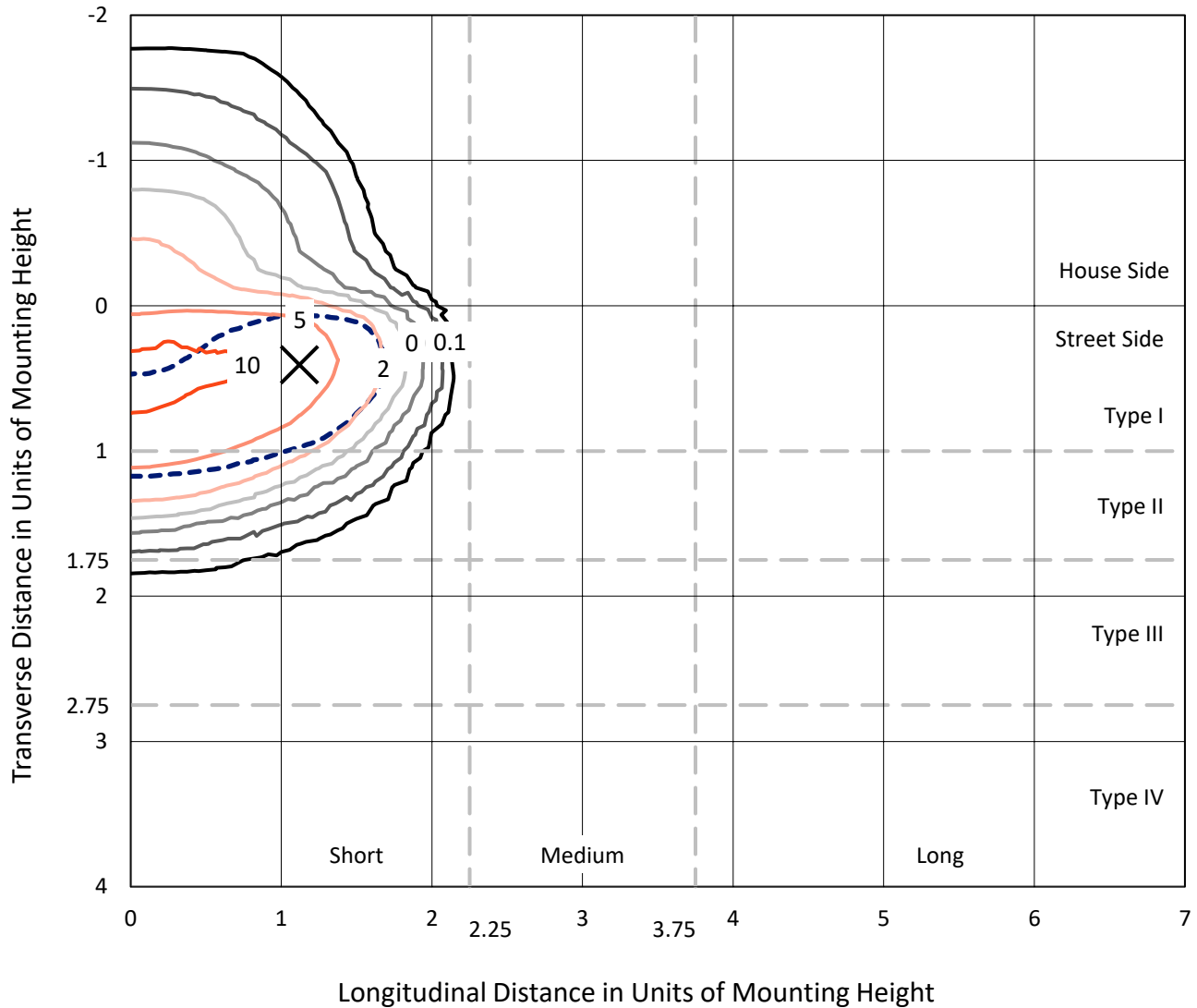
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

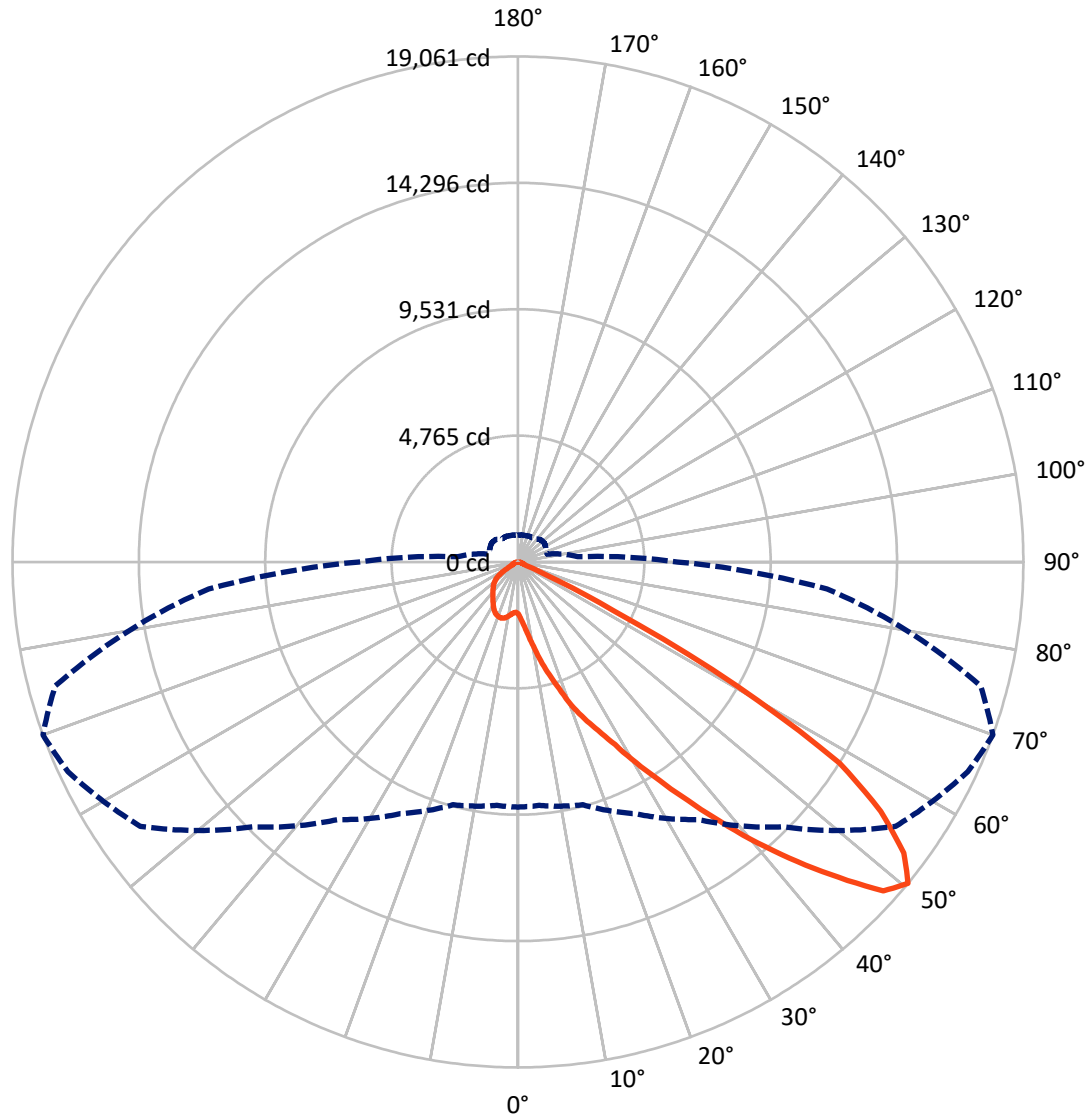
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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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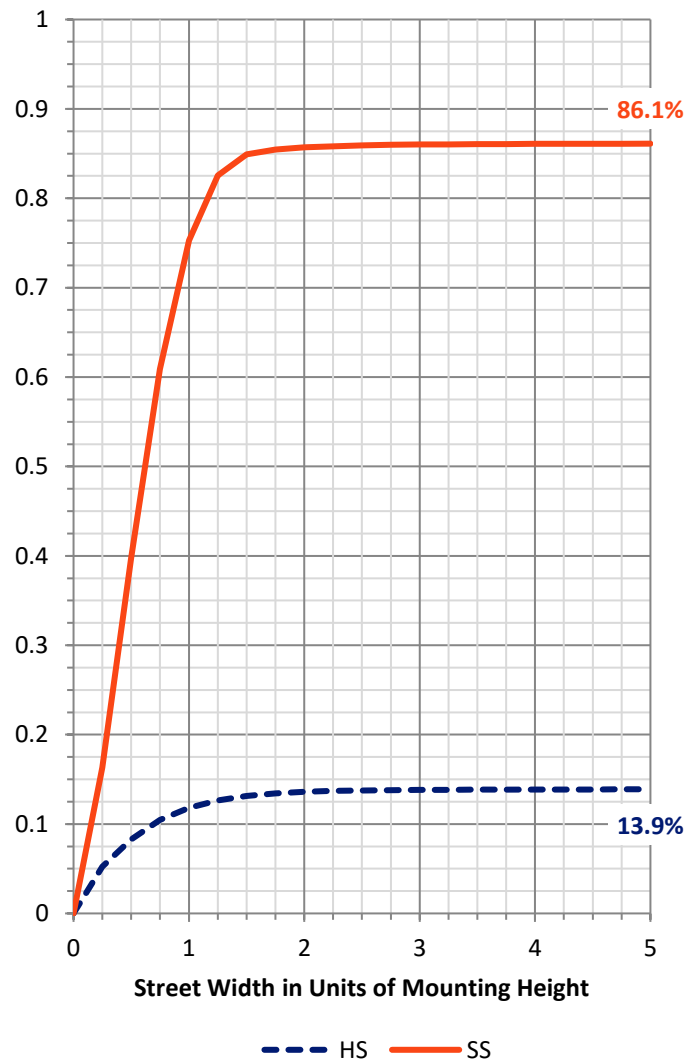
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2633.1	0.0	2633.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16220.9	0.0	16220.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	18854.0	0.0	18854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.3
10°-20°	1098.5	5.8
20°-30°	2304.5	12.2
30°-40°	3972.1	21.1
40°-50°	5805.2	30.8
50°-60°	4521.3	24.0
60°-70°	766.1	4.1
70°-80°	105.2	0.6
80°-90°	27.3	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°	18854.0	100.0
0°-180°	18854.0	100.0



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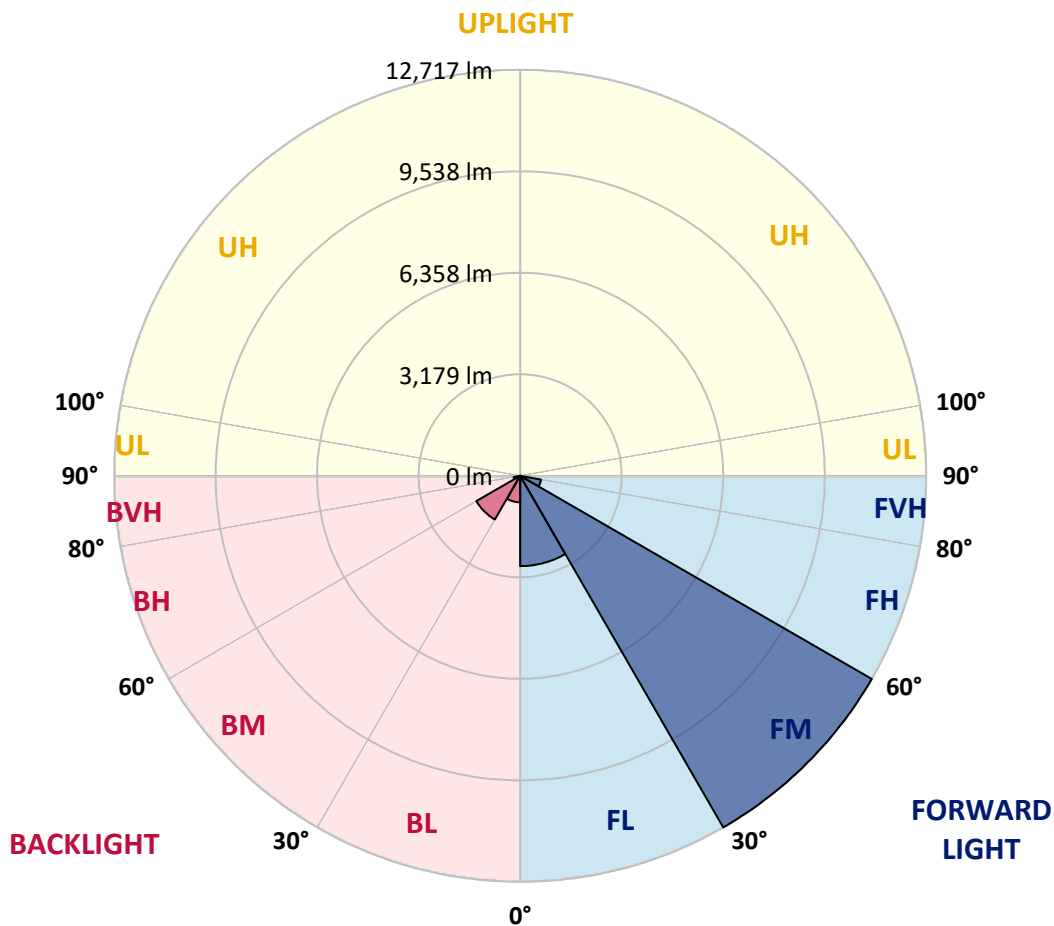
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.3	15.0			
FM (30°-60°)	12716.7	67.4			
FH (60°-80°)	663.3	3.5			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	828.6	4.4	B2/1000		
BM (30°-60°)	1581.9	8.4	B2/2500		
BH (60°-80°)	208.0	1.1	B1/500		G1/500
BVH (80°-90°)	14.7	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°	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9
2.5°	2557.4	2538.8	2498.5	2424.1	2393.1	2318.7	2275.3	2191.6	2138.9	2080.0	2014.9
5°	3602.0	3505.9	3447.0	3363.3	3118.4	2966.6	2715.5	2501.6	2402.4	2293.9	2145.1
7.5°	4680.8	4618.8	4538.2	4358.4	4191.0	3874.8	3443.9	2972.8	2771.3	2585.3	2290.8
10°	5573.5	5399.9	5390.6	5257.3	5074.4	4696.3	4178.6	3592.7	3233.1	2960.4	2498.5
12.5°	6196.6	6038.5	6109.8	6094.3	5923.8	5576.6	4978.4	4203.4	3828.3	3403.6	2712.4
15°	6763.9	6698.8	6677.1	6658.5	6590.3	6333.0	5796.7	4947.4	4404.9	3893.4	2954.2
17.5°	7318.7	7151.3	7231.9	7247.4	7241.2	7008.8	6506.6	5654.1	5015.6	4411.1	3208.3
20°	7811.6	7827.1	7718.6	7696.9	7678.3	7669.0	7179.2	6354.7	5765.7	4953.6	3540.0
22.5°	8444.0	8335.5	8431.6	8369.6	8248.7	8174.3	7799.2	6974.7	6416.7	5607.6	3877.9
25°	9191.0	9277.8	9051.6	9026.8	8893.5	8636.2	8298.3	7669.0	7042.9	6215.2	4243.7
27.5°	10111.7	9959.8	9900.9	9764.5	9522.7	9414.2	9017.5	8385.1	7799.2	6853.8	4597.1
30°	10902.2	10861.9	10567.4	10406.2	10195.4	10192.3	9637.4	9355.3	8785.0	7855.0	5083.7
32.5°	11546.9	11370.2	11261.7	11150.1	10979.7	11026.2	10558.1	10409.3	9835.8	8785.0	5657.2
35°	11977.8	11850.7	11785.6	11615.1	11565.5	11773.2	11577.9	11515.9	11044.8	10093.1	6329.9
37.5°	12114.2	12154.5	12142.1	11928.2	12033.6	12594.7	12845.8	12684.6	12436.6	11472.5	7058.3
40°	12235.1	12263.0	12201.0	12452.1	12752.8	13391.3	14299.6	14033.0	13940.0	12870.6	8072.0
42.5°	12303.3	12281.6	12281.6	12715.6	13171.2	14454.6	15703.8	15527.1	15455.8	14358.5	9243.7
45°	12008.8	11798.0	12024.3	12613.3	13530.8	14978.5	16826.0	17070.9	16968.6	16128.5	10613.9
47.5°	10908.4	11038.6	11165.6	11953.0	13093.8	14817.3	17514.1	18348.0	18537.1	17616.4	11512.8
50°	9243.7	9215.8	9479.3	10471.3	11856.9	14122.9	17380.8	18716.9	19061.0	18062.8	11701.9
52.5°	6723.6	6928.2	7213.3	8199.1	9842.0	12325.0	15660.4	17765.2	18224.0	17514.1	11577.9
55°	3915.1	3688.8	4330.5	5164.3	6714.3	9296.4	13239.4	15747.2	16596.6	16516.0	10951.8
57.5°	1568.5	1518.9	1739.0	2343.5	3502.8	5762.6	9628.1	12938.8	14299.6	15127.2	9625.0
60°	688.2	672.7	790.5	954.8	1432.1	2656.6	5266.6	8047.2	9466.9	10570.5	6624.4
62.5°	496.0	489.8	548.7	607.6	756.4	1156.2	2213.3	3242.4	4042.2	4882.3	2966.6
65°	399.9	415.4	455.7	486.7	558.0	641.7	781.2	902.1	1106.6	1146.9	654.1
67.5°	325.5	337.9	375.1	409.2	421.6	347.2	359.6	316.2	316.2	282.1	226.3
70°	238.7	241.8	285.2	325.5	260.4	139.5	244.9	244.9	220.1	210.8	192.2
72.5°	176.7	179.8	213.9	201.5	102.3	86.8	179.8	198.4	179.8	170.5	155.0
75°	130.2	133.3	111.6	46.5	43.4	55.8	105.4	136.4	130.2	127.1	117.8
77.5°	24.8	18.6	15.5	21.7	31.0	46.5	68.2	83.7	86.8	93.0	86.8
80°	3.1	3.1	9.3	18.6	34.1	49.6	71.3	80.6	83.7	86.8	80.6
82.5°	0.0	3.1	9.3	18.6	34.1	46.5	62.0	71.3	77.5	80.6	77.5
85°	0.0	3.1	6.2	15.5	27.9	34.1	31.0	21.7	18.6	21.7	15.5
87.5°	0.0	0.0	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
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°	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9	1952.9
2.5°	1977.7	1965.3	1921.9	1875.4	1835.1	1853.7	1835.1	1819.6	1825.8	1819.6	1813.4
5°	2086.2	2030.4	1937.4	1897.1	1863.0	1859.9	1850.6	1847.5	1850.6	1850.6	1822.7
7.5°	2188.5	2098.6	1999.4	1956.0	1915.7	1918.8	1897.1	1897.1	1894.0	1878.5	1872.3
10°	2343.5	2222.6	2095.5	2018.0	1968.4	1959.1	1937.4	1915.7	1915.7	1915.7	1884.7
12.5°	2514.0	2362.1	2188.5	2098.6	2039.7	1993.2	1959.1	1952.9	1918.8	1912.6	1897.1
15°	2662.8	2470.6	2250.5	2126.5	2052.1	1990.1	1937.4	1903.3	1887.8	1878.5	1866.1
17.5°	2808.5	2563.6	2284.6	2126.5	2045.9	1974.6	1918.8	1887.8	1850.6	1856.8	1832.0
20°	3003.8	2662.8	2293.9	2086.2	1987.0	1918.8	1844.4	1828.9	1807.2	1788.6	1794.8
22.5°	3192.8	2734.1	2266.0	2036.6	1894.0	1813.4	1776.2	1757.6	1748.3	1732.8	1711.1
25°	3363.3	2811.6	2222.6	1946.7	1794.8	1735.9	1701.8	1698.7	1677.0	1677.0	1636.7
27.5°	3536.9	2839.5	2148.2	1841.3	1708.0	1673.9	1658.4	1652.2	1642.9	1621.2	1593.3
30°	3735.3	2848.8	2039.7	1732.8	1630.5	1593.3	1615.0	1630.5	1590.2	1549.9	1562.3
32.5°	3899.6	2827.1	1909.5	1630.5	1574.7	1556.1	1599.5	1615.0	1568.5	1525.1	1503.4
35°	4098.0	2774.4	1782.4	1549.9	1518.9	1556.1	1593.3	1593.3	1500.3	1447.6	1435.2
37.5°	4398.7	2715.5	1664.6	1481.7	1460.0	1537.5	1587.1	1553.0	1407.3	1342.2	1326.7
40°	4721.1	2678.3	1549.9	1413.5	1429.0	1506.5	1534.4	1429.0	1280.2	1239.9	1227.5
42.5°	5189.1	2603.9	1447.6	1354.6	1401.1	1463.1	1463.1	1274.0	1218.2	1196.5	1193.4
45°	5771.9	2551.2	1357.7	1305.0	1360.8	1376.3	1326.7	1193.4	1153.1	1146.9	1150.0
47.5°	6057.1	2448.9	1264.7	1246.1	1286.4	1289.5	1159.3	1128.3	1094.2	1084.9	1078.7
50°	6013.7	2266.0	1143.8	1168.6	1224.4	1193.4	1057.0	1063.2	1032.2	1029.1	1013.6
52.5°	5709.9	1977.7	1022.9	1081.8	1143.8	1053.9	973.4	967.2	967.2	926.9	911.4
55°	5062.0	1593.3	877.3	951.7	1026.0	886.6	864.9	858.7	843.2	806.0	796.7
57.5°	4008.1	1168.6	660.3	740.9	871.1	753.3	750.2	722.3	682.0	654.1	654.1
60°	2383.8	672.7	415.4	452.6	576.6	610.7	678.9	666.5	598.3	554.9	542.5
62.5°	1088.0	347.2	263.5	269.7	310.0	396.8	533.2	616.9	520.8	446.4	440.2
65°	365.8	257.3	217.0	207.7	213.9	238.7	319.3	437.1	415.4	344.1	331.7
67.5°	223.2	229.4	204.6	189.1	189.1	186.0	182.9	198.4	244.9	238.7	241.8
70°	192.2	210.8	189.1	170.5	164.3	155.0	130.2	108.5	93.0	108.5	114.7
72.5°	155.0	167.4	161.2	145.7	130.2	117.8	93.0	71.3	52.7	46.5	46.5
75°	114.7	124.0	130.2	111.6	99.2	83.7	68.2	46.5	27.9	18.6	18.6
77.5°	83.7	93.0	96.1	86.8	74.4	58.9	43.4	31.0	15.5	6.2	6.2
80°	71.3	83.7	93.0	86.8	77.5	55.8	40.3	21.7	12.4	3.1	3.1
82.5°	68.2	83.7	93.0	83.7	74.4	52.7	40.3	24.8	9.3	3.1	3.1
85°	15.5	21.7	27.9	34.1	40.3	40.3	31.0	18.6	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	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)