

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: P646856

Luminaire Tested: **GALN-SA3C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9813.3 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

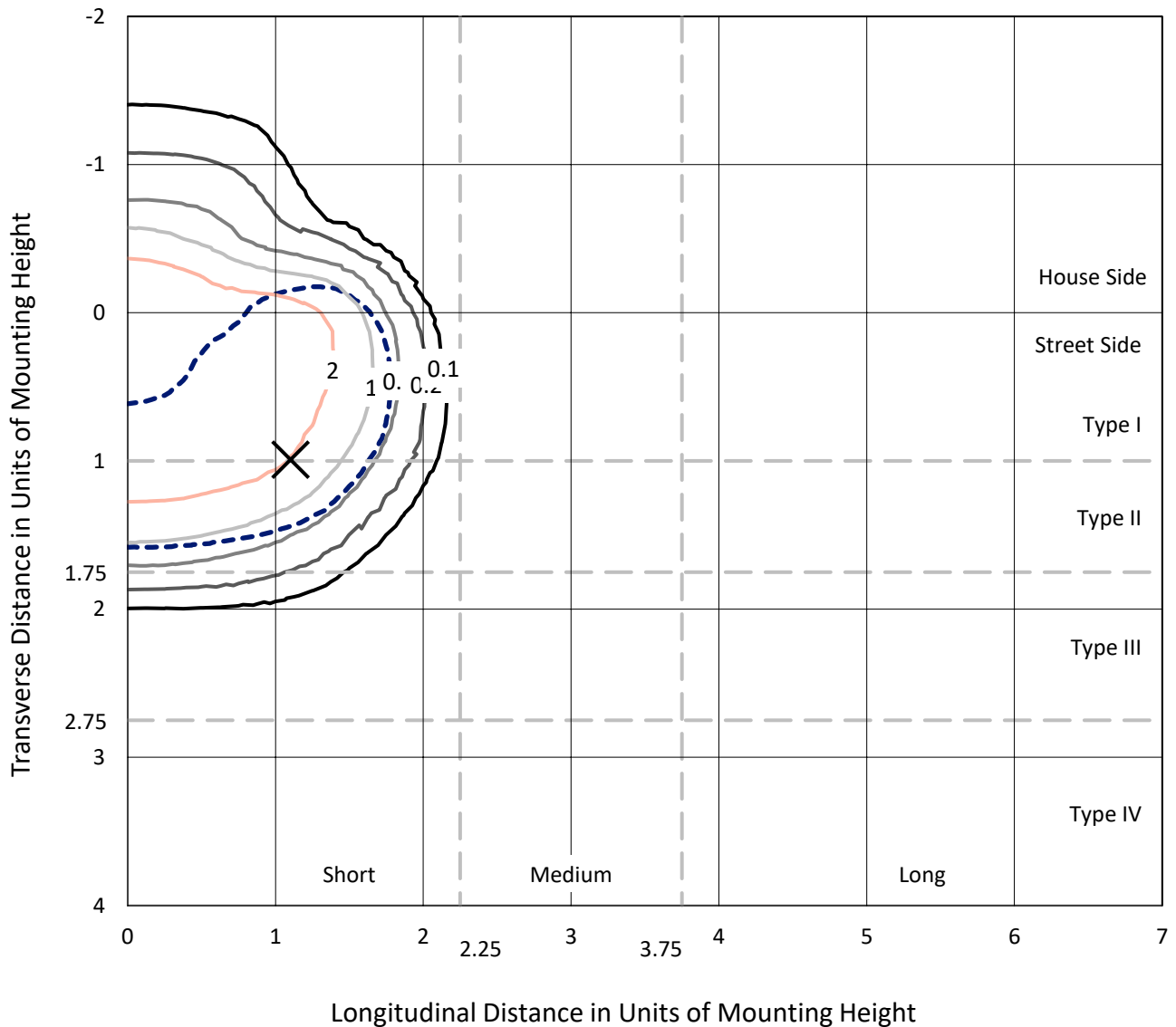
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

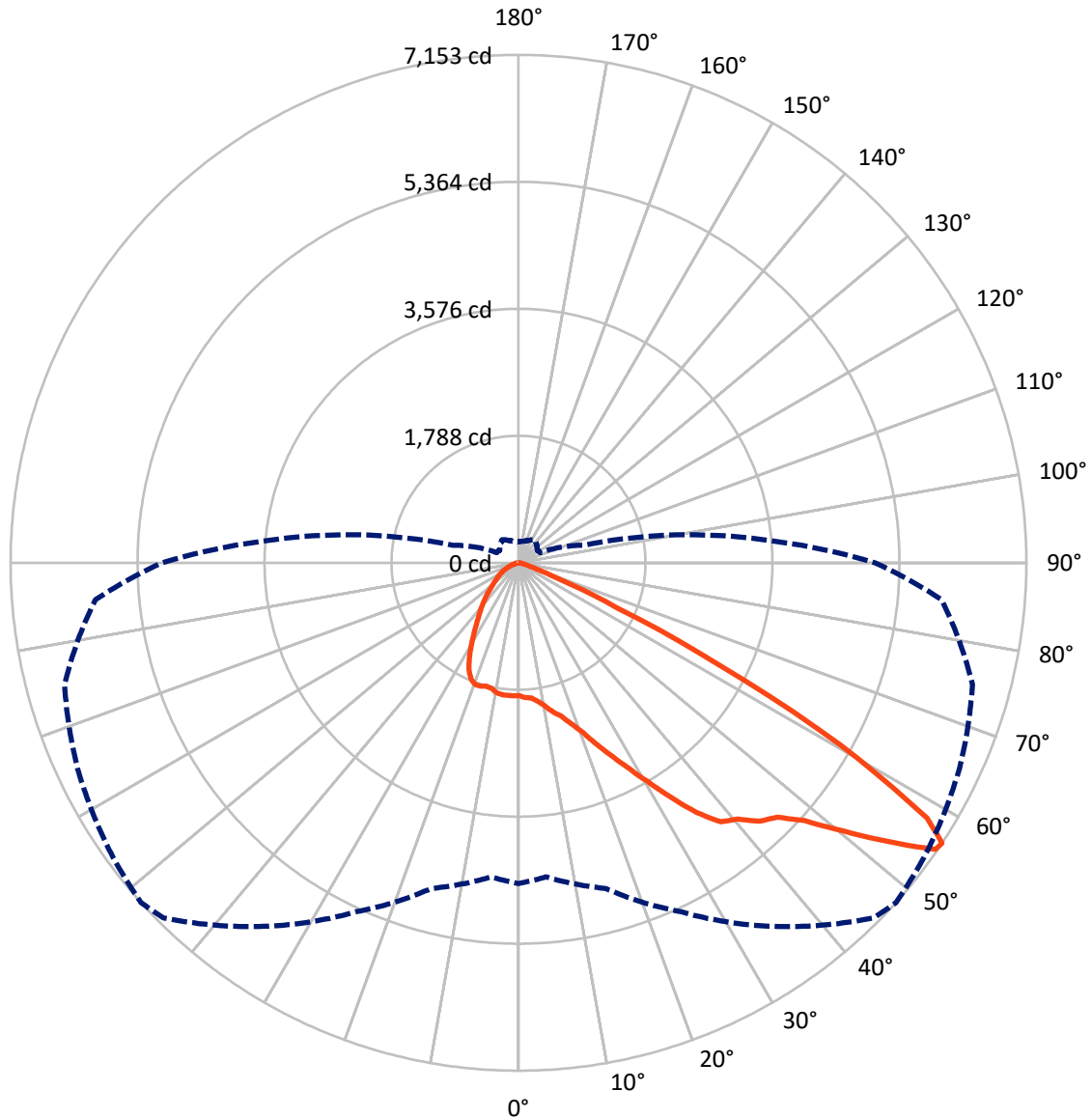
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2134.2	0.0	2134.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7679.1	0.0	7679.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	9813.3	0.0	9813.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.9
10°-20°	583.5	5.9
20°-30°	1058.4	10.8
30°-40°	1662.5	16.9
40°-50°	2425.2	24.7
50°-60°	2921.9	29.8
60°-70°	855.5	8.7
70°-80°	108.5	1.1
80°-90°	15.2	0.2
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°	9813.3	100.0
0°-180°	9813.3	100.0

Coefficient of Utilization



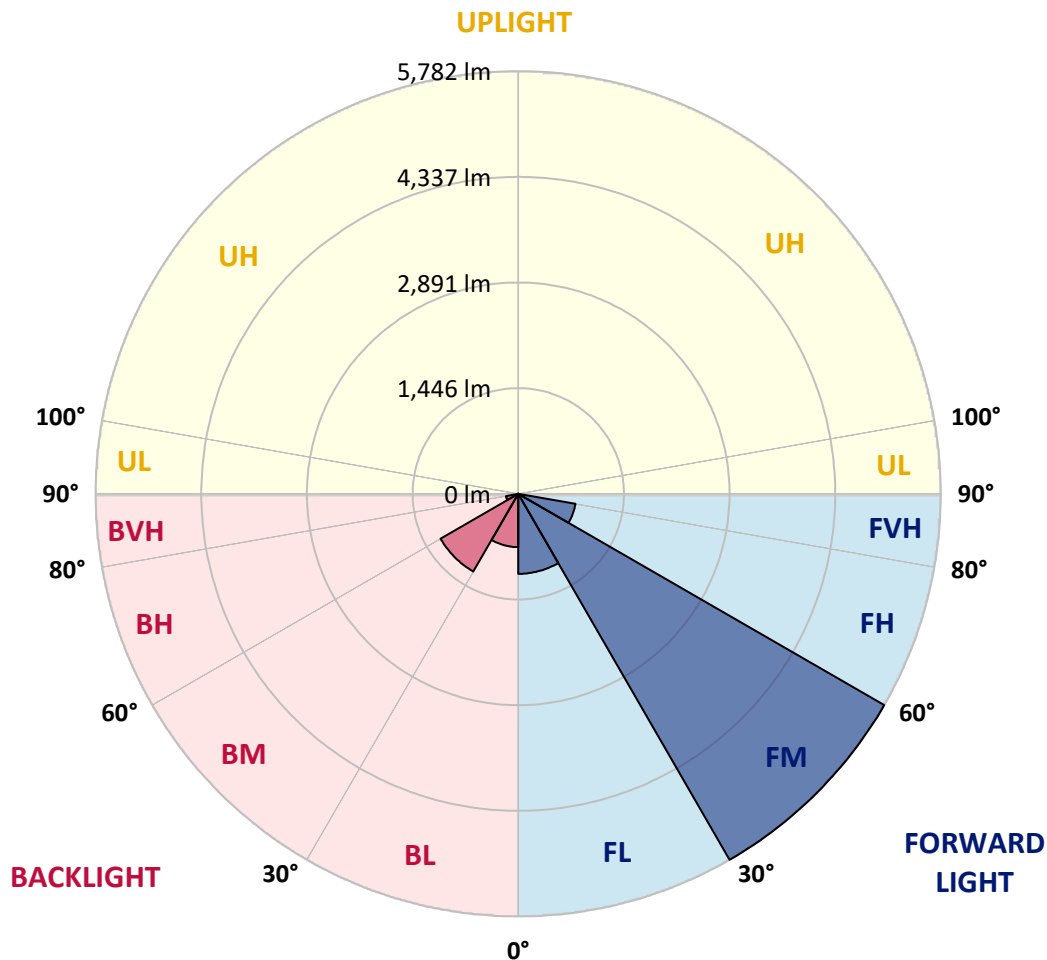
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.0	11.2			
FM (30°-60°)	5782.0	58.9			
FH (60°-80°)	794.5	8.1			G1/1800
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	729.5	7.4	B2/1000		
BM (30°-60°)	1227.6	12.5	B2/2500		
BH (60°-80°)	169.6	1.7	B1/500		G1/500
BVH (80°-90°)	7.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1908.3	1899.4	1899.4	1885.1	1901.1	1894.0	1899.4	1881.5	1899.4	1872.5	1894.0
5°	1917.3	1919.1	1911.9	1920.8	1920.8	1931.5	1913.7	1929.8	1938.7	1919.1	1910.1
7.5°	1963.7	1967.3	1965.5	1958.4	1972.6	1970.8	1969.1	1956.6	1960.1	1953.0	1942.2
10°	2054.8	2053.0	2062.0	2044.1	2033.4	2045.9	2049.4	2029.8	2015.5	2010.1	1976.2
12.5°	2187.1	2165.6	2153.1	2135.2	2140.6	2122.7	2154.9	2120.9	2113.8	2081.6	2047.7
15°	2294.3	2290.7	2292.5	2263.9	2231.7	2238.8	2238.8	2221.0	2210.3	2170.9	2122.7
17.5°	2514.1	2439.0	2455.1	2419.3	2392.5	2390.7	2374.7	2378.2	2349.6	2267.4	2194.2
20°	2685.5	2653.4	2628.4	2567.6	2526.5	2539.0	2531.9	2514.1	2505.1	2397.9	2294.3
22.5°	2839.2	2850.0	2808.9	2792.8	2735.6	2741.0	2755.2	2739.2	2671.3	2560.5	2406.8
25°	3055.4	3042.9	2987.5	2967.9	2914.2	2933.9	2989.3	2976.8	2933.9	2733.8	2494.4
27.5°	3310.9	3268.1	3278.8	3189.5	3137.6	3193.0	3259.2	3321.6	3200.1	2937.5	2598.0
30°	3491.4	3446.8	3443.2	3439.6	3427.1	3491.4	3568.2	3625.4	3527.1	3141.2	2769.5
32.5°	3580.7	3591.5	3621.8	3611.1	3720.1	3852.4	3932.8	4014.9	3891.7	3473.5	2996.5
35°	3818.4	3750.5	3818.4	3825.5	3938.1	4218.6	4320.5	4517.0	4486.7	3943.5	3273.4
37.5°	3957.8	3952.4	3961.4	4029.2	4138.2	4484.9	4629.6	4781.5	4724.3	4225.8	3618.2
40°	4188.3	4202.5	4200.8	4252.6	4372.3	4685.0	4744.0	4867.2	4872.6	4617.1	4125.7
42.5°	4558.2	4500.9	4463.4	4517.0	4685.0	4858.3	4976.2	4951.2	5128.1	5092.4	4777.9
45°	4890.5	4924.4	4869.0	4958.3	5019.1	5112.1	5108.4	5162.1	5387.2	5557.0	5269.3
47.5°	5201.4	5222.8	5249.6	5310.4	5442.6	5456.9	5426.5	5403.2	5714.2	5889.3	5649.9
50°	5387.2	5406.8	5531.9	5640.9	5887.5	5919.6	5937.6	5878.5	6089.4	6109.0	6009.0
52.5°	5337.2	5358.6	5533.7	5892.9	6285.9	6580.8	6527.2	6427.1	6414.6	6491.5	6341.4
55°	4894.1	4874.4	5115.6	5674.9	6411.0	7118.6	7125.8	7020.3	6818.4	6766.6	6291.3
56°	4517.0	4440.2	4747.5	5422.9	6250.2	7072.1	7152.5	7040.0	6850.6	6618.3	5982.2
57.5°	3700.5	3773.7	4079.3	4638.5	5694.5	6738.0	6784.5	6757.7	6614.7	6225.2	5263.9
60°	2040.5	2169.1	2439.0	3123.3	4054.2	5171.0	5208.5	5426.5	5453.3	4767.2	3621.8
62.5°	866.6	852.3	1132.8	1636.7	2308.5	3121.5	3191.2	3414.6	3455.7	2748.1	1817.2
65°	352.0	371.7	512.8	823.7	1220.4	1422.3	1520.6	1593.8	1729.6	1134.6	670.0
67.5°	232.3	230.5	302.0	470.0	657.6	634.3	634.3	670.0	620.1	462.8	289.5
70°	166.2	171.6	216.2	325.2	409.2	303.7	291.3	278.7	316.3	305.5	234.0
72.5°	109.0	116.1	144.7	194.7	212.7	166.2	166.2	200.1	260.9	246.6	191.2
75°	71.5	73.3	89.3	112.6	105.4	85.7	94.7	134.0	189.4	182.3	135.8
77.5°	48.2	50.0	60.8	73.3	59.0	48.2	51.8	67.9	92.9	92.9	71.5
80°	17.9	19.7	25.0	23.3	26.8	34.0	37.5	46.4	55.4	55.4	48.2
82.5°	0.0	1.8	5.3	12.5	19.7	26.8	30.4	35.7	41.1	46.4	44.6
85°	0.0	1.8	5.3	8.9	14.3	16.1	17.9	12.5	10.7	10.7	8.9
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6	1.8	1.8
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°	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3	1874.3
2.5°	1874.3	1872.5	1872.5	1867.2	1877.9	1872.5	1876.1	1874.3	1851.1	1869.0	1856.5
5°	1894.0	1906.5	1886.9	1883.3	1869.0	1874.3	1874.3	1856.5	1872.5	1870.7	1867.2
7.5°	1944.0	1922.6	1901.1	1879.7	1876.1	1870.7	1851.1	1844.0	1856.5	1842.2	1863.6
10°	1965.5	1969.1	1936.9	1908.3	1881.5	1844.0	1817.2	1801.1	1781.4	1802.9	1815.4
12.5°	2063.8	2028.0	1972.6	1928.0	1836.8	1799.3	1772.5	1765.4	1799.3	1806.5	1793.9
15°	2097.7	2092.3	2020.8	1920.8	1826.1	1781.4	1786.8	1772.5	1776.1	1758.2	1761.8
17.5°	2167.4	2106.7	2022.6	1897.6	1824.3	1813.6	1781.4	1724.2	1692.1	1677.8	1690.3
20°	2244.2	2185.3	2063.8	1906.5	1840.4	1811.8	1706.4	1636.7	1570.6	1534.8	1536.6
22.5°	2312.1	2238.8	2045.9	1910.1	1854.7	1736.8	1609.9	1472.4	1390.1	1334.7	1336.5
25°	2394.3	2290.7	2053.0	1917.3	1817.2	1617.1	1434.8	1300.8	1202.5	1165.0	1177.5
27.5°	2440.8	2322.8	2092.3	1933.3	1718.9	1447.3	1250.8	1125.7	1068.5	1050.6	1048.8
30°	2580.1	2394.3	2140.6	1901.1	1554.5	1265.0	1082.8	1006.0	950.6	934.5	938.0
32.5°	2787.4	2524.8	2203.1	1817.2	1386.5	1102.5	973.8	916.7	864.8	834.4	830.8
35°	2960.8	2748.1	2269.2	1686.7	1191.8	977.3	897.0	825.5	746.9	712.9	704.0
37.5°	3291.3	3000.1	2255.0	1490.2	1006.0	884.5	814.8	727.3	659.4	612.9	607.5
40°	3730.8	3294.9	2185.3	1250.8	868.3	802.3	727.3	643.2	559.3	520.0	516.4
42.5°	4265.1	3655.8	2058.4	1007.7	730.8	720.0	652.2	555.7	480.7	452.0	453.8
45°	4699.3	3964.9	1929.8	809.4	629.0	639.7	580.7	489.6	437.8	414.5	414.5
47.5°	5085.2	4173.9	1790.4	668.3	534.2	559.3	507.5	453.8	409.2	391.3	387.7
50°	5456.9	4386.6	1651.0	541.4	455.6	480.7	475.3	432.4	396.7	375.2	377.0
52.5°	5689.2	4420.5	1474.1	443.1	398.5	427.0	444.9	405.6	366.3	353.8	350.2
55°	5405.0	3982.8	1143.6	364.5	337.7	375.2	409.2	364.5	334.1	312.7	310.9
56°	5022.7	3561.1	956.0	335.9	319.9	361.0	396.7	348.4	314.5	302.0	293.0
57.5°	4252.6	2914.2	705.8	298.4	296.6	335.9	377.0	332.4	293.0	282.3	282.3
60°	2651.6	1640.3	427.0	250.2	257.3	298.4	339.5	296.6	260.9	260.9	266.2
62.5°	1207.9	682.5	259.1	212.7	221.6	257.3	302.0	268.0	248.4	268.0	271.6
65°	411.0	294.8	187.6	169.8	175.1	212.7	259.1	271.6	269.8	282.3	289.5
67.5°	230.5	189.4	157.2	141.2	137.6	157.2	212.7	271.6	260.9	255.5	259.1
70°	194.7	160.8	139.4	125.0	119.7	126.8	164.4	205.5	184.0	178.7	175.1
72.5°	157.2	134.0	121.5	112.6	96.5	82.2	75.0	78.6	87.5	92.9	101.9
75°	110.8	101.9	101.9	91.1	69.7	51.8	41.1	34.0	23.3	16.1	17.9
77.5°	62.6	62.6	64.4	55.4	44.6	34.0	25.0	17.9	8.9	3.6	1.8
80°	42.9	46.4	50.0	44.6	37.5	30.4	21.5	12.5	5.3	0.0	0.0
82.5°	42.9	48.2	51.8	44.6	37.5	28.6	21.5	12.5	5.3	1.8	0.0
85°	8.9	10.7	12.5	14.3	21.5	21.5	16.1	10.7	5.3	1.8	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.0	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)