

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: P528243

Luminaire Tested: **GALN-SA3B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528243
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-SA3B-740-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 10144 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

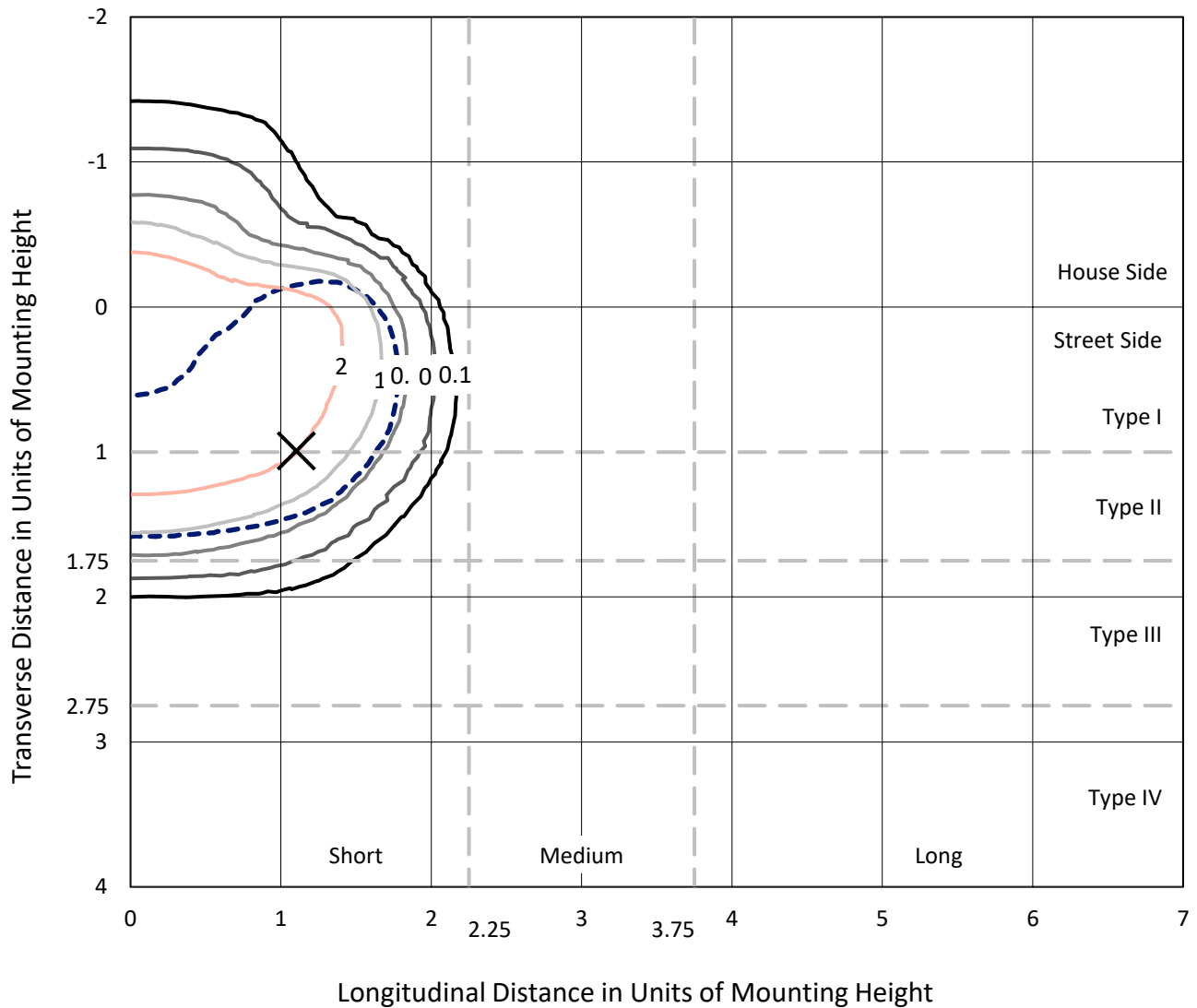
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

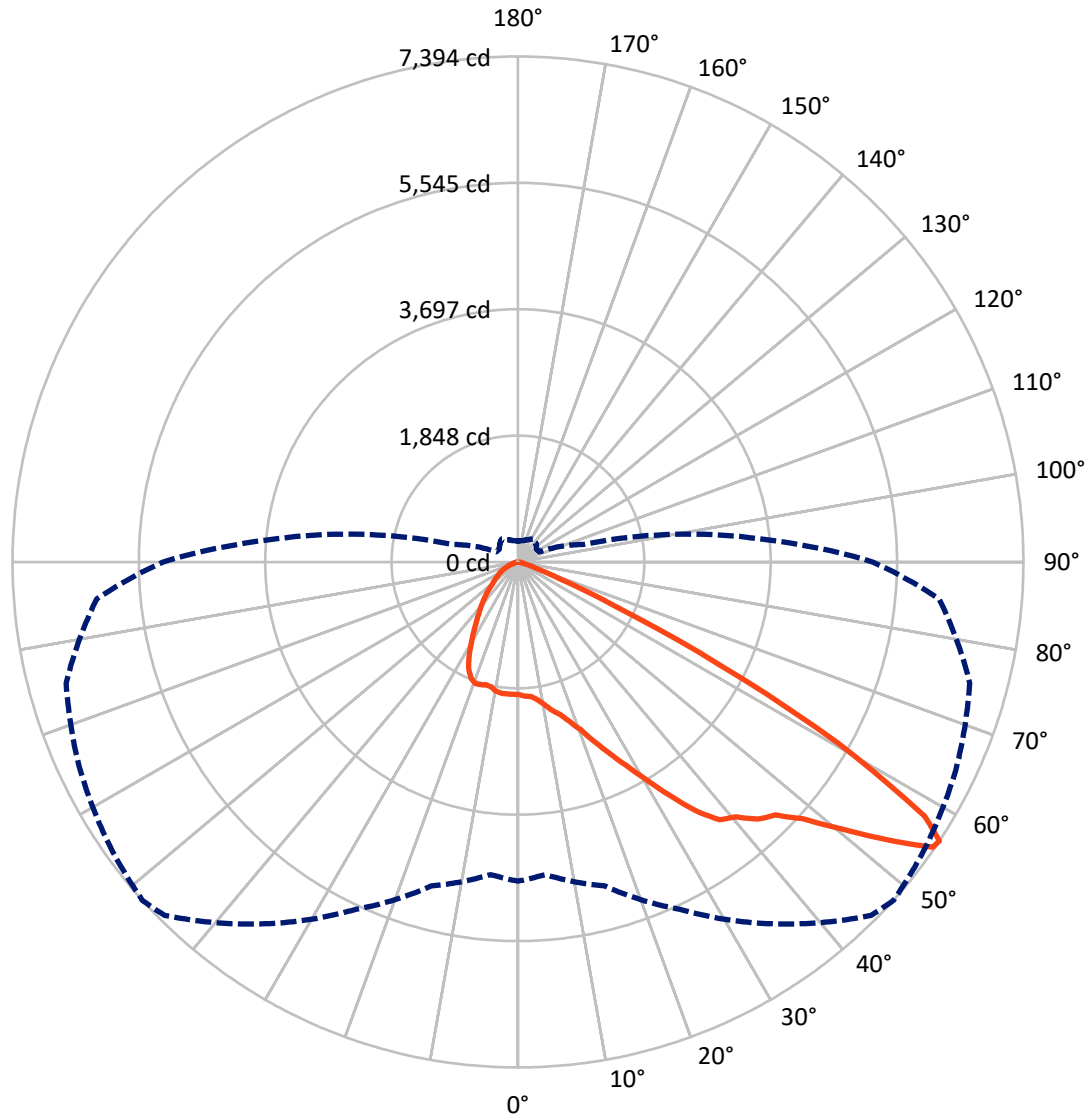
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	2206.1	0.0	2206.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7937.9	0.0	7937.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	10144.0	0.0	10144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	1.9
10°-20°	603.2	5.9
20°-30°	1094.0	10.8
30°-40°	1718.5	16.9
40°-50°	2506.9	24.7
50°-60°	3020.4	29.8
60°-70°	884.3	8.7
70°-80°	112.2	1.1
80°-90°	15.7	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°	10144.0	100.0
0°-180°	10144.0	100.0

Coefficient of Utilization



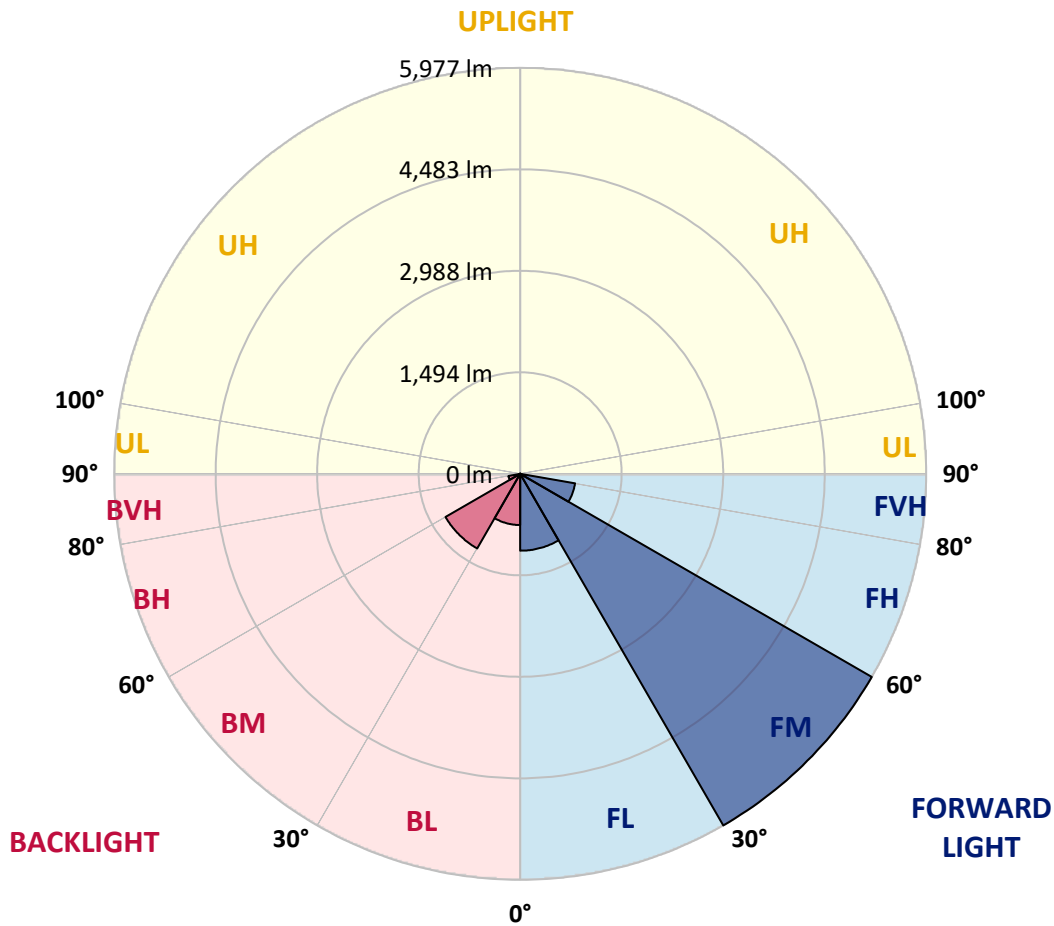
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.9	11.2			
FM (30°-60°)	5976.9	58.9			
FH (60°-80°)	821.2	8.1			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	754.0	7.4	B2/1000		
BM (30°-60°)	1269.0	12.5	B2/2500		
BH (60°-80°)	175.3	1.7	B1/500		G1/500
BVH (80°-90°)	7.8	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°	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5
2.5°	1972.6	1963.4	1963.4	1948.6	1965.2	1957.8	1963.4	1944.9	1963.4	1935.7	1957.8
5°	1981.8	1983.7	1976.3	1985.5	1985.5	1996.6	1978.1	1994.8	2004.0	1983.7	1974.4
7.5°	2029.9	2033.6	2031.7	2024.3	2039.1	2037.2	2035.4	2022.5	2026.2	2018.8	2007.7
10°	2124.1	2122.2	2131.4	2113.0	2101.9	2114.8	2118.5	2098.2	2083.4	2077.9	2042.8
12.5°	2260.7	2238.6	2225.6	2207.2	2212.7	2194.2	2227.5	2192.4	2185.0	2151.8	2116.7
15°	2371.6	2367.9	2369.7	2340.2	2306.9	2314.3	2314.3	2295.8	2284.7	2244.1	2194.2
17.5°	2598.7	2521.2	2537.8	2500.8	2473.1	2471.3	2454.7	2458.4	2428.8	2343.8	2268.1
20°	2776.0	2742.8	2716.9	2654.1	2611.7	2624.6	2617.2	2598.7	2589.5	2478.7	2371.6
22.5°	2934.9	2946.0	2903.5	2886.9	2827.8	2833.3	2848.1	2831.5	2761.3	2646.8	2487.9
25°	3158.4	3145.4	3088.2	3067.9	3012.5	3032.8	3090.0	3077.1	3032.8	2825.9	2578.4
27.5°	3422.5	3378.2	3389.3	3296.9	3243.3	3300.6	3368.9	3433.6	3308.0	3036.5	2685.5
30°	3609.0	3562.9	3559.2	3555.5	3542.6	3609.0	3688.5	3747.6	3646.0	3247.0	2862.9
32.5°	3701.4	3712.5	3743.9	3732.8	3845.5	3982.1	4065.3	4150.2	4022.8	3590.6	3097.4
35°	3947.0	3876.9	3947.0	3954.4	4070.8	4360.8	4466.1	4669.2	4637.8	4076.3	3383.7
37.5°	4091.1	4085.6	4094.8	4165.0	4277.7	4636.0	4785.6	4942.6	4883.5	4368.2	3740.2
40°	4329.4	4344.2	4342.3	4395.9	4519.6	4842.8	4903.8	5031.2	5036.8	4772.7	4264.7
42.5°	4711.7	4652.6	4613.8	4669.2	4842.8	5022.0	5143.9	5118.1	5300.9	5264.0	4938.9
45°	5055.3	5090.3	5033.1	5125.4	5188.2	5284.3	5280.6	5336.0	5568.7	5744.2	5446.8
47.5°	5376.6	5398.8	5426.5	5489.3	5626.0	5640.8	5609.4	5585.3	5906.7	6087.7	5840.2
50°	5568.7	5589.0	5718.3	5831.0	6085.9	6119.1	6137.6	6076.6	6294.6	6314.9	6211.5
52.5°	5517.0	5539.2	5720.2	6091.4	6497.8	6802.5	6747.1	6643.7	6630.7	6710.2	6555.0
55°	5058.9	5038.6	5288.0	5866.1	6627.1	7358.5	7365.9	7256.9	7048.2	6994.6	6503.3
56°	4669.2	4589.8	4907.5	5605.7	6460.8	7310.4	7393.6	7277.2	7081.4	6841.3	6183.8
57.5°	3825.1	3900.9	4216.7	4794.8	5886.4	6965.1	7013.1	6985.4	6837.6	6435.0	5441.3
60°	2109.3	2242.3	2521.2	3228.6	4190.9	5345.2	5384.0	5609.4	5637.1	4927.8	3743.9
62.5°	895.8	881.0	1171.0	1691.9	2386.3	3226.7	3298.8	3529.6	3572.1	2840.7	1878.4
65°	363.9	384.2	530.1	851.5	1261.5	1470.2	1571.8	1647.5	1787.9	1172.8	692.6
67.5°	240.1	238.3	312.1	485.8	679.7	655.7	655.7	692.6	640.9	478.4	299.2
70°	171.8	177.3	223.5	336.2	423.0	314.0	301.1	288.1	326.9	315.8	242.0
72.5°	112.7	120.1	149.6	201.3	219.8	171.8	171.8	206.9	269.7	254.9	197.6
75°	73.9	75.7	92.4	116.4	109.0	88.7	97.9	138.5	195.8	188.4	140.4
77.5°	49.9	51.7	62.8	75.7	61.0	49.9	53.6	70.2	96.0	96.0	73.9
80°	18.5	20.3	25.9	24.0	27.7	35.1	38.8	48.0	57.3	57.3	49.9
82.5°	0.0	1.8	5.5	12.9	20.3	27.7	31.4	36.9	42.5	48.0	46.2
85°	0.0	1.8	5.5	9.2	14.8	16.6	18.5	12.9	11.1	11.1	9.2
87.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7	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°	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5
2.5°	1937.5	1935.7	1935.7	1930.1	1941.2	1935.7	1939.4	1937.5	1913.5	1932.0	1919.0
5°	1957.8	1970.8	1950.4	1946.7	1932.0	1937.5	1937.5	1919.0	1935.7	1933.8	1930.1
7.5°	2009.5	1987.4	1965.2	1943.0	1939.4	1933.8	1913.5	1906.1	1919.0	1904.3	1926.4
10°	2031.7	2035.4	2002.2	1972.6	1944.9	1906.1	1878.4	1861.8	1841.5	1863.6	1876.6
12.5°	2133.3	2096.4	2039.1	1992.9	1898.7	1859.9	1832.2	1824.8	1859.9	1867.3	1854.4
15°	2168.4	2162.8	2089.0	1985.5	1887.6	1841.5	1847.0	1832.2	1835.9	1817.5	1821.1
17.5°	2240.4	2177.6	2090.8	1961.5	1885.8	1874.7	1841.5	1782.4	1749.1	1734.3	1747.3
20°	2319.8	2258.9	2133.3	1970.8	1902.4	1872.9	1763.9	1691.9	1623.5	1586.6	1588.4
22.5°	2390.0	2314.3	2114.8	1974.4	1917.2	1795.3	1664.2	1521.9	1437.0	1379.7	1381.6
25°	2475.0	2367.9	2122.2	1981.8	1878.4	1671.5	1483.1	1344.6	1243.0	1204.2	1217.2
27.5°	2523.0	2401.1	2162.8	1998.5	1776.8	1496.1	1292.9	1163.6	1104.5	1086.0	1084.2
30°	2667.1	2475.0	2212.7	1965.2	1606.9	1307.7	1119.3	1039.9	982.6	966.0	969.7
32.5°	2881.3	2609.8	2277.4	1878.4	1433.3	1139.6	1006.6	947.5	894.0	862.6	858.9
35°	3060.5	2840.7	2345.7	1743.6	1232.0	1010.3	927.2	853.3	772.0	737.0	727.7
37.5°	3402.2	3101.1	2330.9	1540.4	1039.9	914.3	842.2	751.7	681.5	633.5	628.0
40°	3856.5	3405.9	2258.9	1292.9	897.6	829.3	751.7	664.9	578.1	537.5	533.8
42.5°	4408.8	3779.0	2127.7	1041.7	755.4	744.3	674.2	574.4	496.8	467.3	469.1
45°	4857.6	4098.5	1994.8	836.7	650.1	661.2	600.3	506.1	452.5	428.5	428.5
47.5°	5256.6	4314.6	1850.7	690.8	552.3	578.1	524.5	469.1	423.0	404.5	400.8
50°	5640.8	4534.4	1706.6	559.6	471.0	496.8	491.3	447.0	410.0	387.9	389.7
52.5°	5880.9	4569.5	1523.8	458.1	411.9	441.4	459.9	419.3	378.6	365.7	362.0
55°	5587.2	4117.0	1182.1	376.8	349.1	387.9	423.0	376.8	345.4	323.2	321.4
56°	5191.9	3681.1	988.1	347.2	330.6	373.1	410.0	360.2	325.1	312.1	302.9
57.5°	4395.9	3012.5	729.6	308.4	306.6	347.2	389.7	343.5	302.9	291.8	291.8
60°	2741.0	1695.6	441.4	258.6	266.0	308.4	350.9	306.6	269.7	269.7	275.2
62.5°	1248.6	705.6	267.8	219.8	229.0	266.0	312.1	277.1	256.7	277.1	280.7
65°	424.8	304.8	193.9	175.5	181.0	219.8	267.8	280.7	278.9	291.8	299.2
67.5°	238.3	195.8	162.5	145.9	142.2	162.5	219.8	280.7	269.7	264.1	267.8
70°	201.3	166.2	144.1	129.3	123.7	131.1	169.9	212.4	190.2	184.7	181.0
72.5°	162.5	138.5	125.6	116.4	99.7	85.0	77.6	81.3	90.5	96.0	105.3
75°	114.5	105.3	105.3	94.2	72.0	53.6	42.5	35.1	24.0	16.6	18.5
77.5°	64.6	64.6	66.5	57.3	46.2	35.1	25.9	18.5	9.2	3.7	1.8
80°	44.3	48.0	51.7	46.2	38.8	31.4	22.2	12.9	5.5	0.0	0.0
82.5°	44.3	49.9	53.6	46.2	38.8	29.6	22.2	12.9	5.5	1.8	0.0
85°	9.2	11.1	12.9	14.8	22.2	22.2	16.6	11.1	5.5	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)