

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: P527751

Luminaire Tested: **GALN-SA2D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8814 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

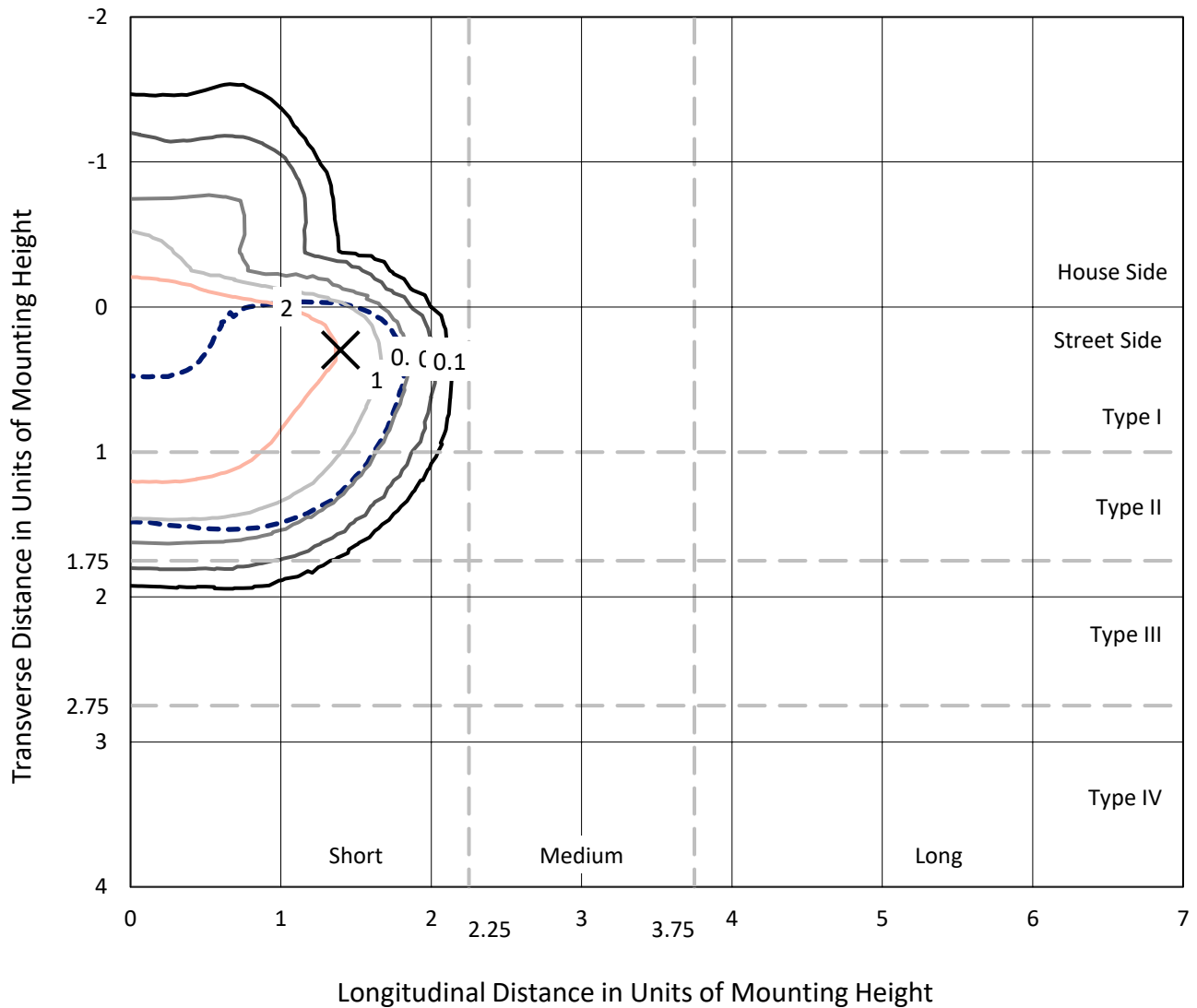
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

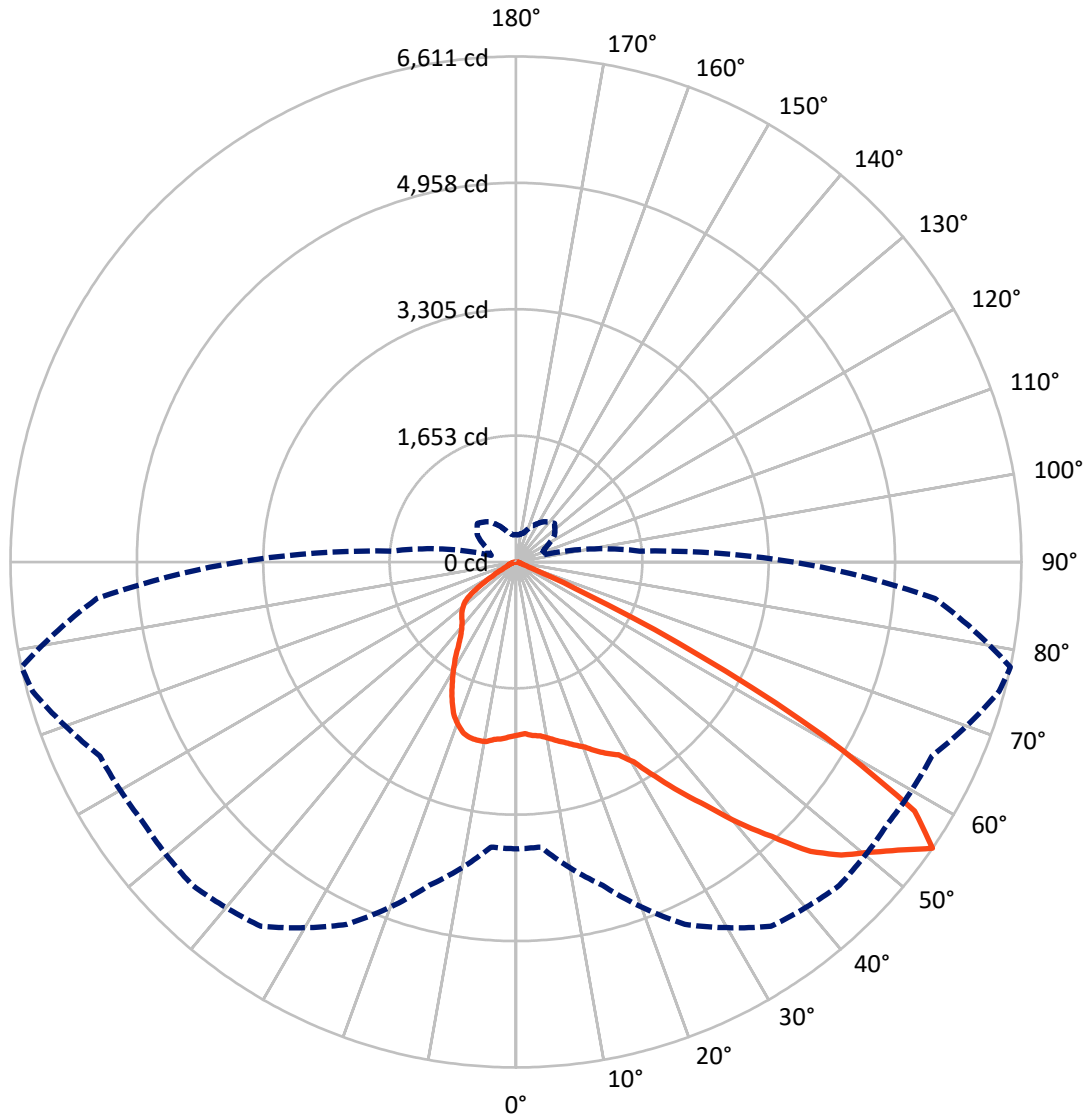
✕ Max cd
 - - - 1/2 Max cd



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 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1637.1	0.0	1637.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7176.9	0.0	7176.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	8814.0	0.0	8814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	2.3
10°-20°	534.8	6.1
20°-30°	937.3	10.6
30°-40°	1545.6	17.5
40°-50°	2249.0	25.5
50°-60°	2548.3	28.9
60°-70°	728.6	8.3
70°-80°	56.6	0.6
80°-90°	11.8	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°	8814.0	100.0
0°-180°	8814.0	100.0

Coefficient of Utilization



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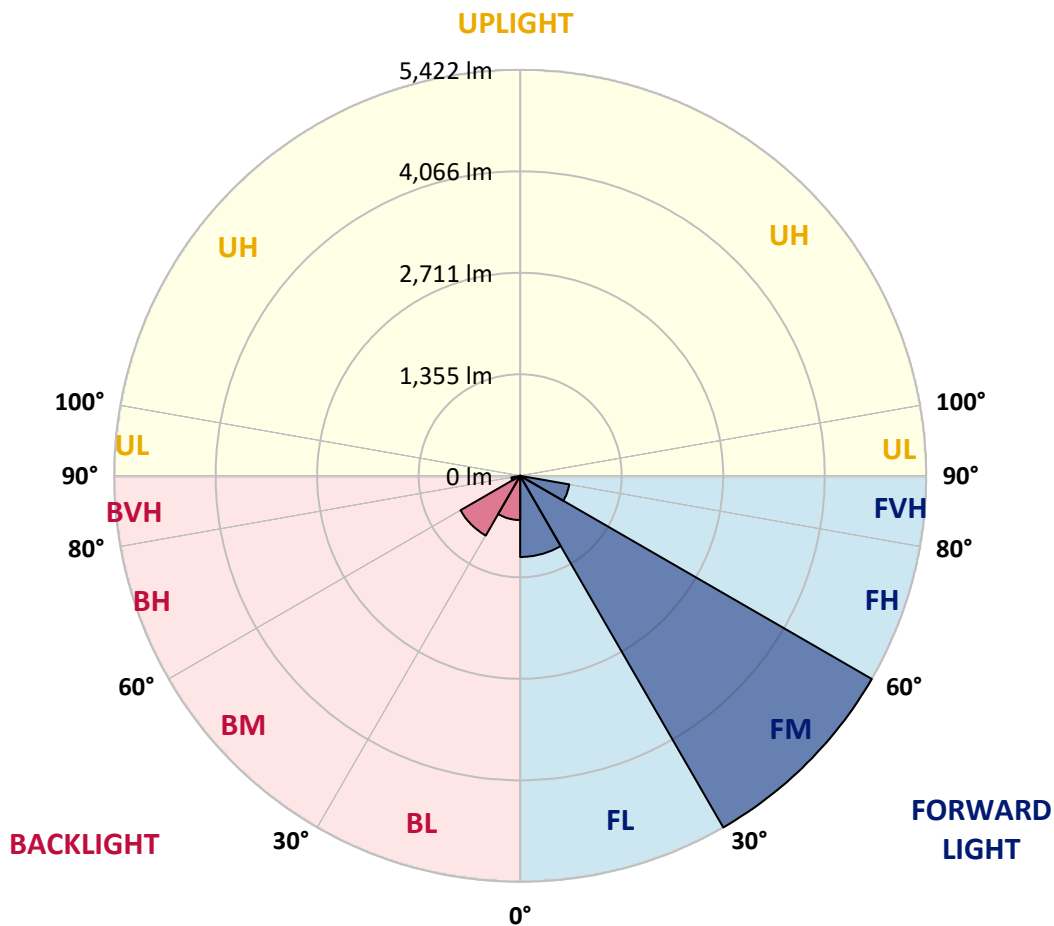
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.5	12.3			
FM (30°-60°)	5422.0	61.5			
FH (60°-80°)	665.7	7.6			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	590.7	6.7	B2/1000		
BM (30°-60°)	920.9	10.4	B1/1000		
BH (60°-80°)	119.5	1.4	B1/500		G1/500
BVH (80°-90°)	6.0	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°	55°	65°	75°	78°	85°
0°	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1
2.5°	2130.6	2151.0	2154.2	2179.4	2177.8	2220.4	2233.0	2234.6	2262.9	2248.8	2285.0
5°	2070.7	2059.6	2054.9	2099.0	2111.7	2149.5	2181.0	2199.9	2258.2	2278.7	2316.5
7.5°	2017.1	2017.1	2020.3	2059.6	2054.9	2103.8	2136.9	2195.2	2280.3	2297.6	2343.3
10°	1965.1	1946.2	1969.8	2010.8	2045.5	2067.5	2136.9	2192.0	2291.3	2341.7	2404.8
12.5°	1938.3	1947.8	1950.9	1980.9	2018.7	2084.9	2122.7	2214.1	2370.1	2400.0	2467.8
15°	2106.9	2088.0	2042.3	2015.5	2047.0	2078.6	2173.1	2266.1	2411.1	2453.6	2529.3
17.5°	2302.3	2286.6	2248.8	2176.3	2105.3	2163.7	2237.7	2322.8	2455.2	2518.2	2630.1
20°	2557.6	2532.4	2494.6	2352.8	2291.3	2228.3	2307.1	2407.9	2527.7	2584.4	2699.4
22.5°	2861.8	2861.8	2776.7	2604.9	2477.2	2417.4	2450.5	2508.8	2608.0	2685.3	2798.7
25°	3178.5	3169.1	3091.8	2913.8	2697.9	2627.0	2664.8	2705.7	2732.5	2775.1	2850.7
27.5°	3541.0	3485.8	3388.1	3191.1	3000.4	2863.3	2904.3	2868.1	2835.0	2857.0	2965.8
30°	3786.8	3821.5	3697.0	3507.9	3328.2	3175.4	3183.2	3151.7	3000.4	3032.0	3096.6
32.5°	4042.1	4064.1	3994.8	3890.8	3711.1	3533.1	3468.5	3441.7	3328.2	3342.4	3279.4
35°	4254.8	4297.4	4235.9	4190.2	4138.2	3994.8	3816.7	3903.4	3720.6	3685.9	3522.0
37.5°	4450.2	4437.6	4510.1	4462.8	4451.8	4350.9	4155.5	4172.9	4050.0	4042.1	3853.0
40°	4625.1	4628.3	4727.6	4749.6	4705.5	4525.9	4242.2	4379.3	4478.6	4488.0	4245.4
42.5°	4770.1	4812.7	4897.8	5075.8	5009.7	4710.2	4332.0	4481.7	4850.5	4908.8	4617.3
45°	4896.2	4982.9	5088.4	5247.6	5209.8	4971.8	4555.8	4692.9	5247.6	5400.5	4967.1
47.5°	4904.1	5017.5	5132.6	5369.0	5416.2	5112.1	4787.5	5027.0	5562.8	5728.2	5222.4
50°	4872.6	4932.4	5162.5	5419.4	5526.5	5340.6	5112.1	5307.5	5868.5	5972.5	5351.6
52.5°	4499.1	4544.8	5006.5	5466.7	5725.1	5599.0	5542.3	5698.3	6180.5	6257.7	5473.0
55°	3750.5	3742.7	4377.7	5228.7	5816.5	5982.0	5947.3	6002.4	6541.4	6610.7	5502.9
57.5°	2565.5	2708.9	3257.3	4354.1	5257.1	5892.1	5928.4	5837.0	6120.6	6147.4	4796.9
60°	1383.6	1443.5	1884.7	2905.9	4002.7	4801.6	4896.2	4730.7	4708.7	4633.0	3424.3
62.5°	550.0	579.9	830.5	1438.8	2181.0	2918.5	3121.8	3054.0	2909.0	2710.5	1772.8
65°	261.6	280.5	412.9	672.9	967.6	1216.6	1419.8	1482.9	1093.6	984.9	584.6
67.5°	178.1	192.3	301.0	384.5	345.1	360.9	469.6	436.5	256.9	219.0	162.3
70°	135.5	145.0	241.1	261.6	154.4	108.7	121.3	113.5	105.6	107.2	105.6
72.5°	96.1	104.0	176.5	154.4	67.8	50.4	64.6	77.2	77.2	77.2	75.6
75°	58.3	66.2	102.4	59.9	26.8	26.8	41.0	52.0	55.2	56.7	53.6
77.5°	29.9	37.8	34.7	17.3	17.3	20.5	29.9	36.2	39.4	39.4	37.8
80°	6.3	6.3	6.3	9.5	17.3	22.1	29.9	33.1	37.8	37.8	34.7
82.5°	0.0	1.6	4.7	9.5	15.8	20.5	28.4	33.1	37.8	39.4	36.2
85°	0.0	1.6	3.2	6.3	11.0	12.6	11.0	9.5	9.5	9.5	9.5
87.5°	0.0	0.0	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
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°	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1	2266.1
2.5°	2288.1	2292.9	2285.0	2283.4	2277.1	2296.0	2250.3	2239.3	2267.7	2240.9	2247.2
5°	2318.1	2329.1	2314.9	2291.3	2256.6	2203.1	2157.4	2097.5	2069.1	2048.6	2045.5
7.5°	2340.1	2348.0	2333.8	2258.2	2154.2	2018.7	1917.8	1843.8	1785.4	1768.1	1739.7
10°	2430.0	2431.5	2360.6	2193.6	1990.3	1812.2	1657.8	1544.3	1486.0	1449.8	1434.0
12.5°	2489.9	2486.7	2343.3	2066.0	1794.9	1558.5	1382.0	1244.9	1191.3	1174.0	1163.0
15°	2565.5	2548.2	2302.3	1935.2	1542.8	1287.5	1128.3	1033.8	1029.0	1018.0	1029.0
17.5°	2625.4	2576.5	2242.4	1697.2	1301.7	1060.6	956.5	962.8	975.5	986.5	988.1
20°	2723.1	2622.2	2105.3	1489.2	1077.9	909.3	907.7	936.1	967.6	980.2	992.8
22.5°	2797.1	2641.1	1958.8	1267.0	895.1	847.8	874.6	917.1	940.8	953.4	972.3
25°	2823.9	2589.1	1763.4	1044.8	806.8	819.4	860.4	888.8	918.7	932.9	925.0
27.5°	2850.7	2562.3	1530.2	860.4	759.6	800.5	835.2	863.6	873.0	891.9	904.5
30°	2915.3	2469.4	1320.6	743.8	735.9	787.9	813.1	822.6	847.8	858.8	858.8
32.5°	2967.3	2433.1	1098.4	688.7	732.8	794.2	797.4	797.4	800.5	792.7	789.5
35°	3074.5	2308.6	899.8	655.6	731.2	795.8	803.7	776.9	704.4	676.0	668.2
37.5°	3206.9	2228.3	753.3	647.7	742.2	814.7	827.3	726.5	631.9	586.2	578.3
40°	3367.6	2171.5	657.1	644.5	767.4	858.8	821.0	687.1	564.2	498.0	494.8
42.5°	3555.1	2119.5	592.5	643.0	799.0	904.5	814.7	654.0	494.8	450.7	457.0
45°	3704.8	2091.2	548.4	631.9	810.0	931.3	819.4	595.7	466.5	438.1	441.2
47.5°	3821.5	2031.3	512.2	613.0	808.4	940.8	776.9	572.0	452.3	460.2	468.0
50°	3824.6	1950.9	466.5	572.0	784.8	923.5	728.0	550.0	449.1	482.2	498.0
52.5°	3782.1	1837.5	417.6	513.7	729.6	863.6	683.9	540.5	434.9	431.8	450.7
55°	3630.8	1624.7	335.7	416.0	616.2	712.3	644.5	523.2	392.4	356.1	359.3
57.5°	2934.2	1164.6	247.4	297.8	436.5	521.6	581.5	515.3	353.0	302.6	304.1
60°	1817.0	660.3	181.2	203.3	269.5	316.7	471.2	479.1	315.2	255.3	252.1
62.5°	932.9	326.2	140.3	143.4	165.5	186.0	323.1	401.8	285.2	242.7	242.7
65°	312.0	160.7	122.9	110.3	110.3	115.0	195.4	278.9	241.1	203.3	203.3
67.5°	133.9	119.8	107.2	96.1	88.2	83.5	110.3	162.3	179.6	154.4	148.1
70°	104.0	100.9	93.0	80.4	69.3	63.0	64.6	83.5	102.4	99.3	96.1
72.5°	77.2	77.2	74.1	63.0	53.6	45.7	42.5	44.1	48.9	50.4	52.0
75°	53.6	55.2	55.2	48.9	39.4	33.1	28.4	23.6	18.9	15.8	14.2
77.5°	36.2	37.8	41.0	36.2	29.9	22.1	17.3	12.6	7.9	3.2	3.2
80°	31.5	36.2	39.4	36.2	31.5	23.6	17.3	9.5	4.7	0.0	0.0
82.5°	33.1	36.2	41.0	34.7	29.9	22.1	17.3	11.0	4.7	1.6	0.0
85°	7.9	7.9	9.5	11.0	14.2	15.8	12.6	7.9	4.7	1.6	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	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)