

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: P527803

Luminaire Tested: **GALN-SA2D-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527803
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-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 9461 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

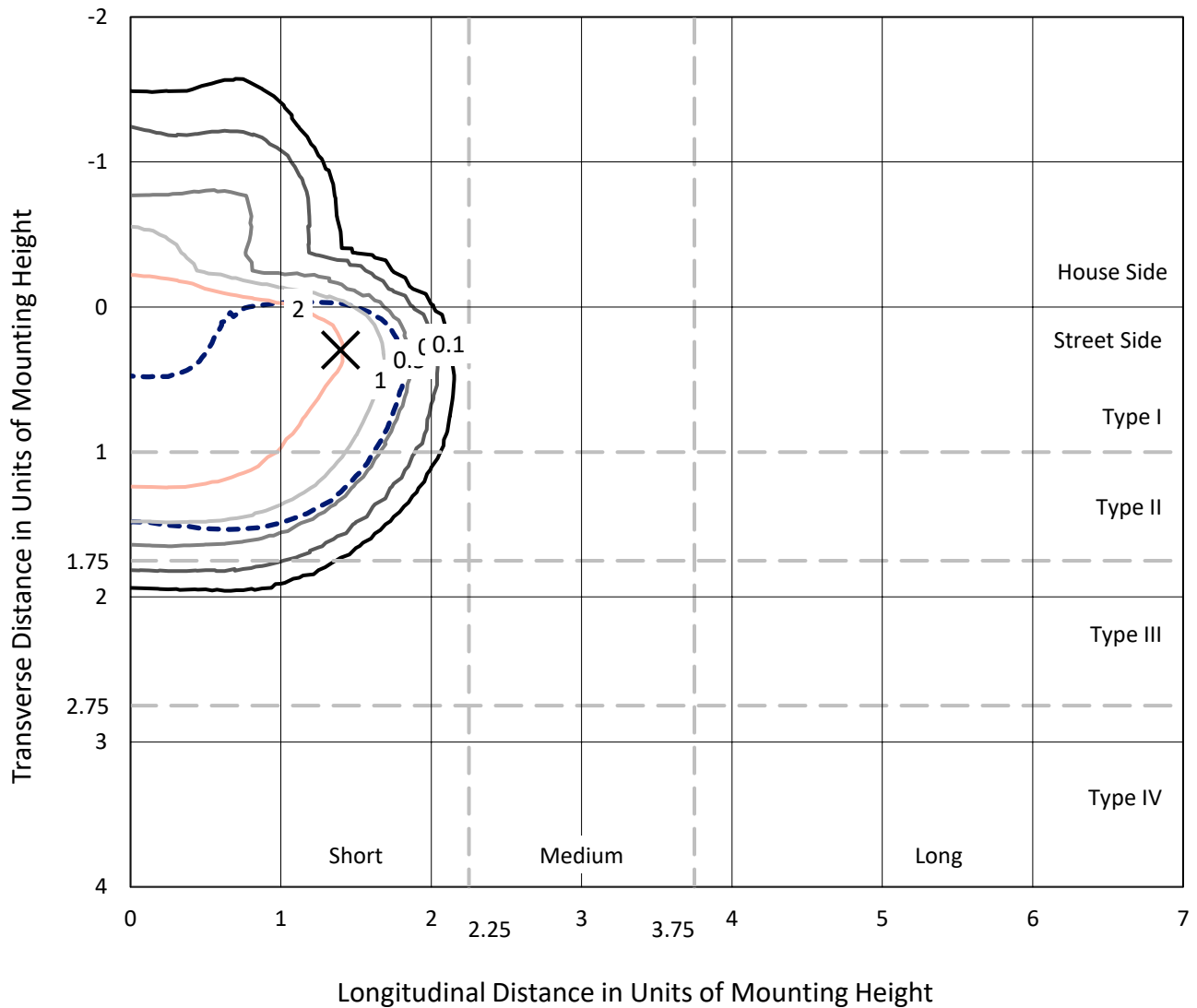
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

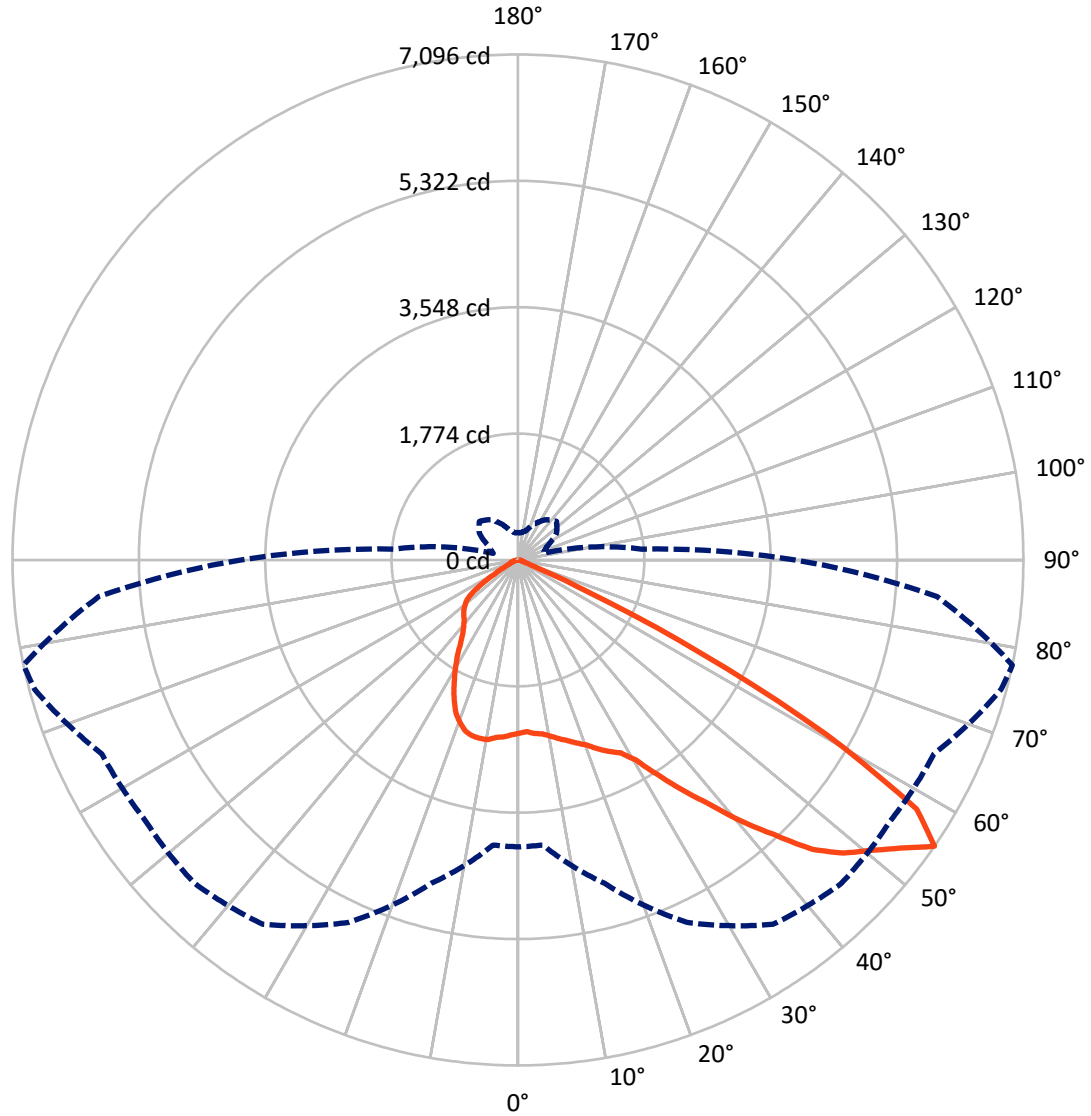
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1757.3	0.0	1757.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7703.7	0.0	7703.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	9461.0	0.0	9461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	2.3
10°-20°	574.0	6.1
20°-30°	1006.1	10.6
30°-40°	1659.0	17.5
40°-50°	2414.1	25.5
50°-60°	2735.4	28.9
60°-70°	782.1	8.3
70°-80°	60.7	0.6
80°-90°	12.6	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°	9461.0	100.0
0°-180°	9461.0	100.0

Coefficient of Utilization



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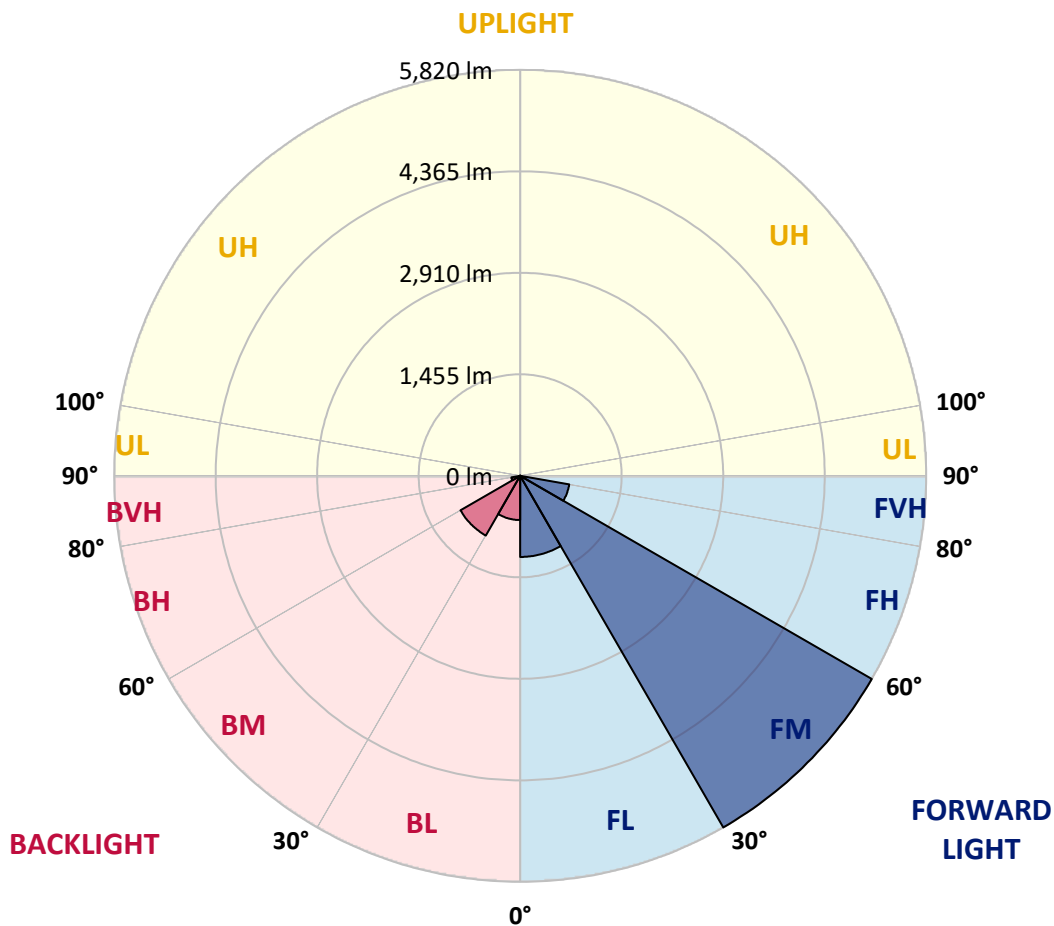
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.0	12.3			
FM (30°-60°)	5820.0	61.5			
FH (60°-80°)	714.6	7.6			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	634.0	6.7	B2/1000		
BM (30°-60°)	988.5	10.4	B1/1000		
BH (60°-80°)	128.3	1.4	B1/500		G1/500
BVH (80°-90°)	6.5	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°	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4
2.5°	2287.0	2308.9	2312.3	2339.4	2337.7	2383.4	2396.9	2398.6	2429.0	2413.8	2452.7
5°	2222.7	2210.8	2205.8	2253.1	2266.7	2307.3	2341.1	2361.4	2424.0	2446.0	2486.6
7.5°	2165.2	2165.2	2168.5	2210.8	2205.8	2258.2	2293.7	2356.3	2447.7	2466.3	2515.3
10°	2109.3	2089.0	2114.4	2158.4	2195.6	2219.3	2293.7	2352.9	2459.5	2513.6	2581.3
12.5°	2080.6	2090.7	2094.1	2126.3	2166.9	2237.9	2278.5	2376.6	2544.1	2576.2	2648.9
15°	2261.6	2241.3	2192.2	2163.5	2197.3	2231.1	2332.6	2432.4	2588.0	2633.7	2714.9
17.5°	2471.3	2454.4	2413.8	2336.0	2259.9	2322.5	2402.0	2493.3	2635.4	2703.1	2823.2
20°	2745.4	2718.3	2677.7	2525.5	2459.5	2391.8	2476.4	2584.7	2713.2	2774.1	2897.6
22.5°	3071.8	3071.8	2980.5	2796.1	2659.1	2594.8	2630.3	2692.9	2799.5	2882.4	3004.2
25°	3411.8	3401.7	3318.8	3127.6	2895.9	2819.8	2860.4	2904.4	2933.1	2978.8	3060.0
27.5°	3800.9	3741.7	3636.8	3425.4	3220.7	3073.5	3117.5	3078.6	3043.1	3066.8	3183.5
30°	4064.8	4102.0	3968.3	3765.4	3572.5	3408.4	3416.9	3383.1	3220.7	3254.5	3323.9
32.5°	4338.8	4362.5	4288.0	4176.4	3983.6	3792.4	3723.1	3694.3	3572.5	3587.7	3520.1
35°	4567.1	4612.8	4546.8	4497.8	4442.0	4288.0	4096.9	4189.9	3993.7	3956.5	3780.6
37.5°	4776.9	4763.4	4841.2	4790.4	4778.6	4670.3	4460.6	4479.2	4347.2	4338.8	4135.8
40°	4964.7	4968.0	5074.6	5098.3	5050.9	4858.1	4553.6	4700.8	4807.3	4817.5	4557.0
42.5°	5120.3	5166.0	5257.3	5448.4	5377.4	5056.0	4650.0	4810.7	5206.5	5269.1	4956.2
45°	5255.6	5348.6	5462.0	5632.8	5592.2	5336.8	4890.2	5037.4	5632.8	5796.9	5331.7
47.5°	5264.1	5385.9	5509.3	5763.1	5813.8	5487.3	5138.9	5396.0	5971.1	6148.7	5605.8
50°	5230.2	5294.5	5541.5	5817.2	5932.2	5732.6	5487.3	5697.1	6299.3	6410.9	5744.5
52.5°	4829.3	4878.4	5374.0	5867.9	6145.4	6010.0	5949.1	6116.6	6634.2	6717.1	5874.7
55°	4025.9	4017.4	4699.1	5612.5	6243.5	6421.1	6383.9	6443.1	7021.6	7096.0	5906.8
57.5°	2753.8	2907.8	3496.4	4673.7	5643.0	6324.7	6363.6	6265.4	6569.9	6598.7	5149.0
60°	1485.2	1549.4	2023.1	3119.2	4296.5	5154.1	5255.6	5078.0	5054.3	4973.1	3675.7
62.5°	590.3	622.5	891.4	1544.4	2341.1	3132.7	3350.9	3278.2	3122.6	2909.4	1903.0
65°	280.8	301.1	443.2	722.3	1038.6	1305.9	1524.1	1591.7	1173.9	1057.2	627.6
67.5°	191.1	206.4	323.1	412.7	370.4	387.4	504.1	468.6	275.7	235.1	174.2
70°	145.5	155.6	258.8	280.8	165.8	116.7	130.2	121.8	113.3	115.0	113.3
72.5°	103.2	111.6	189.5	165.8	72.7	54.1	69.4	82.9	82.9	82.9	81.2
75°	62.6	71.0	109.9	64.3	28.8	28.8	44.0	55.8	59.2	60.9	57.5
77.5°	32.1	40.6	37.2	18.6	18.6	22.0	32.1	38.9	42.3	42.3	40.6
80°	6.8	6.8	6.8	10.1	18.6	23.7	32.1	35.5	40.6	40.6	37.2
82.5°	0.0	1.7	5.1	10.1	16.9	22.0	30.4	35.5	40.6	42.3	38.9
85°	0.0	1.7	3.4	6.8	11.8	13.5	11.8	10.1	10.1	10.1	10.1
87.5°	0.0	0.0	1.7	1.7	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4	2432.4
2.5°	2456.1	2461.2	2452.7	2451.0	2444.3	2464.6	2415.5	2403.7	2434.1	2405.4	2412.1
5°	2488.2	2500.1	2484.9	2459.5	2422.3	2364.8	2315.7	2251.4	2221.0	2199.0	2195.6
7.5°	2511.9	2520.4	2505.2	2424.0	2312.3	2166.9	2058.6	1979.1	1916.5	1897.9	1867.5
10°	2608.3	2610.0	2533.9	2354.6	2136.4	1945.3	1779.5	1657.7	1595.1	1556.2	1539.3
12.5°	2672.6	2669.2	2515.3	2217.6	1926.7	1672.9	1483.5	1336.3	1278.8	1260.2	1248.4
15°	2753.8	2735.2	2471.3	2077.2	1656.0	1382.0	1211.1	1109.6	1104.6	1092.7	1104.6
17.5°	2818.1	2765.7	2407.1	1821.8	1397.2	1138.4	1026.8	1033.5	1047.1	1058.9	1060.6
20°	2923.0	2814.7	2259.9	1598.5	1157.0	976.0	974.3	1004.8	1038.6	1052.1	1065.7
22.5°	3002.5	2835.0	2102.6	1360.0	960.8	910.0	938.8	984.5	1009.8	1023.4	1043.7
25°	3031.2	2779.2	1892.8	1121.5	866.1	879.6	923.6	954.0	986.2	1001.4	992.9
27.5°	3060.0	2750.4	1642.5	923.6	815.3	859.3	896.5	927.0	937.1	957.4	970.9
30°	3129.3	2650.6	1417.5	798.4	789.9	845.8	872.8	883.0	910.0	921.9	921.9
32.5°	3185.2	2611.7	1179.0	739.2	786.6	852.5	855.9	855.9	859.3	850.8	847.5
35°	3300.2	2478.1	965.9	703.7	784.9	854.2	862.7	833.9	756.1	725.7	717.2
37.5°	3442.3	2391.8	808.6	695.2	796.7	874.5	888.1	779.8	678.3	629.3	620.8
40°	3614.8	2330.9	705.4	691.8	823.8	921.9	881.3	737.5	605.6	534.5	531.1
42.5°	3816.1	2275.1	636.0	690.1	857.6	970.9	874.5	702.0	531.1	483.8	490.5
45°	3976.8	2244.7	588.7	678.3	869.4	999.7	879.6	639.4	500.7	470.2	473.6
47.5°	4102.0	2180.4	549.7	658.0	867.8	1009.8	833.9	614.0	485.5	493.9	502.4
50°	4105.4	2094.1	500.7	614.0	842.4	991.2	781.5	590.3	482.1	517.6	534.5
52.5°	4059.7	1972.3	448.3	551.4	783.2	927.0	734.1	580.2	466.9	463.5	483.8
55°	3897.3	1744.0	360.3	446.6	661.4	764.6	691.8	561.6	421.2	382.3	385.7
57.5°	3149.6	1250.0	265.6	319.7	468.6	559.9	624.2	553.1	378.9	324.8	326.5
60°	1950.3	708.8	194.5	218.2	289.3	340.0	505.8	514.2	338.3	274.0	270.6
62.5°	1001.4	350.1	150.5	153.9	177.6	199.6	346.8	431.3	306.2	260.5	260.5
65°	334.9	172.5	131.9	118.4	118.4	123.5	209.8	299.4	258.8	218.2	218.2
67.5°	143.8	128.6	115.0	103.2	94.7	89.7	118.4	174.2	192.8	165.8	159.0
70°	111.6	108.3	99.8	86.3	74.4	67.7	69.4	89.7	109.9	106.6	103.2
72.5°	82.9	82.9	79.5	67.7	57.5	49.1	45.7	47.4	52.4	54.1	55.8
75°	57.5	59.2	59.2	52.4	42.3	35.5	30.4	25.4	20.3	16.9	15.2
77.5°	38.9	40.6	44.0	38.9	32.1	23.7	18.6	13.5	8.5	3.4	3.4
80°	33.8	38.9	42.3	38.9	33.8	25.4	18.6	10.1	5.1	0.0	0.0
82.5°	35.5	38.9	44.0	37.2	32.1	23.7	18.6	11.8	5.1	1.7	0.0
85°	8.5	8.5	10.1	11.8	15.2	16.9	13.5	8.5	5.1	1.7	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	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)