

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: P451138

Luminaire Tested: **GALN-SA2A-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7838 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

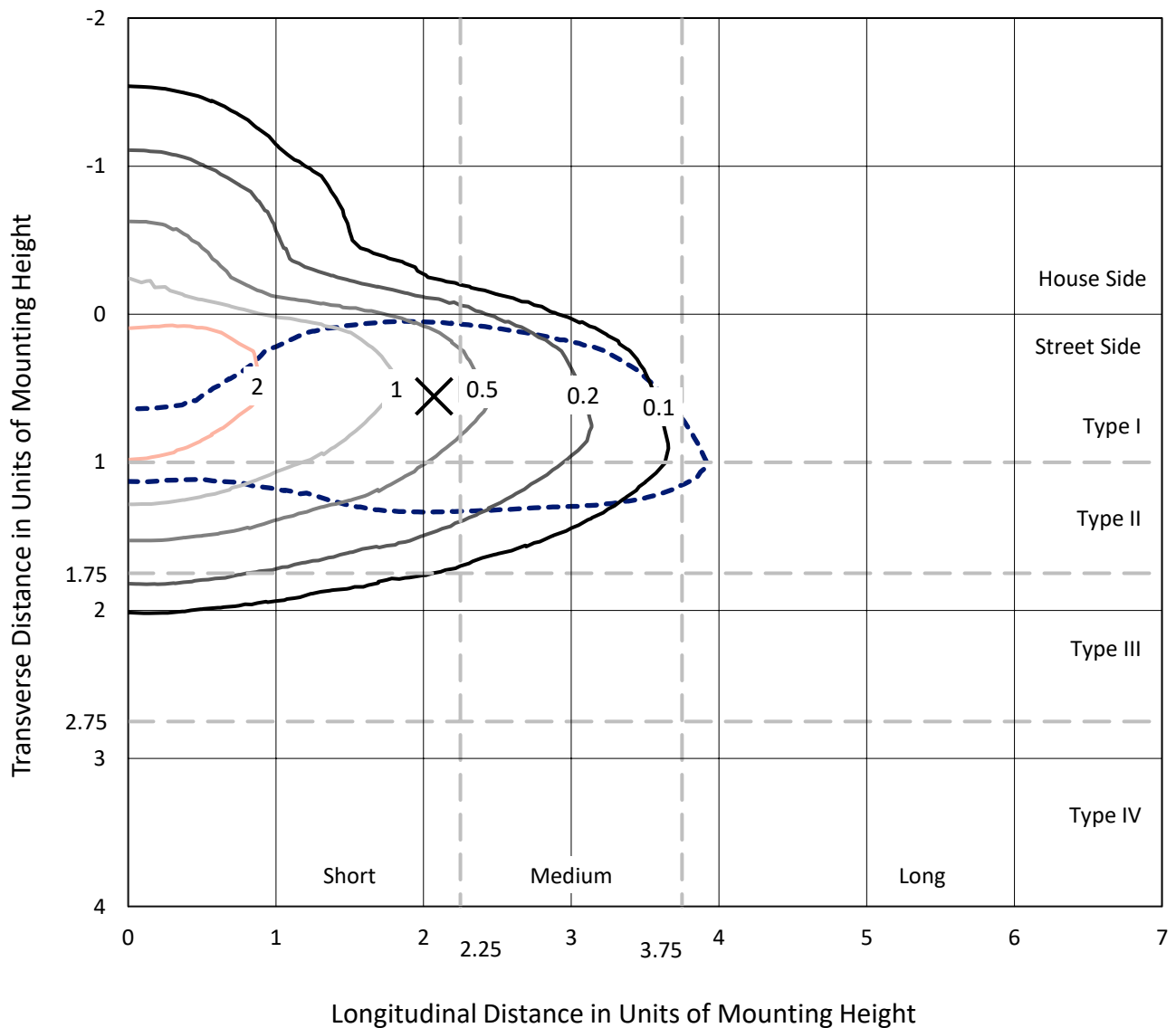
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

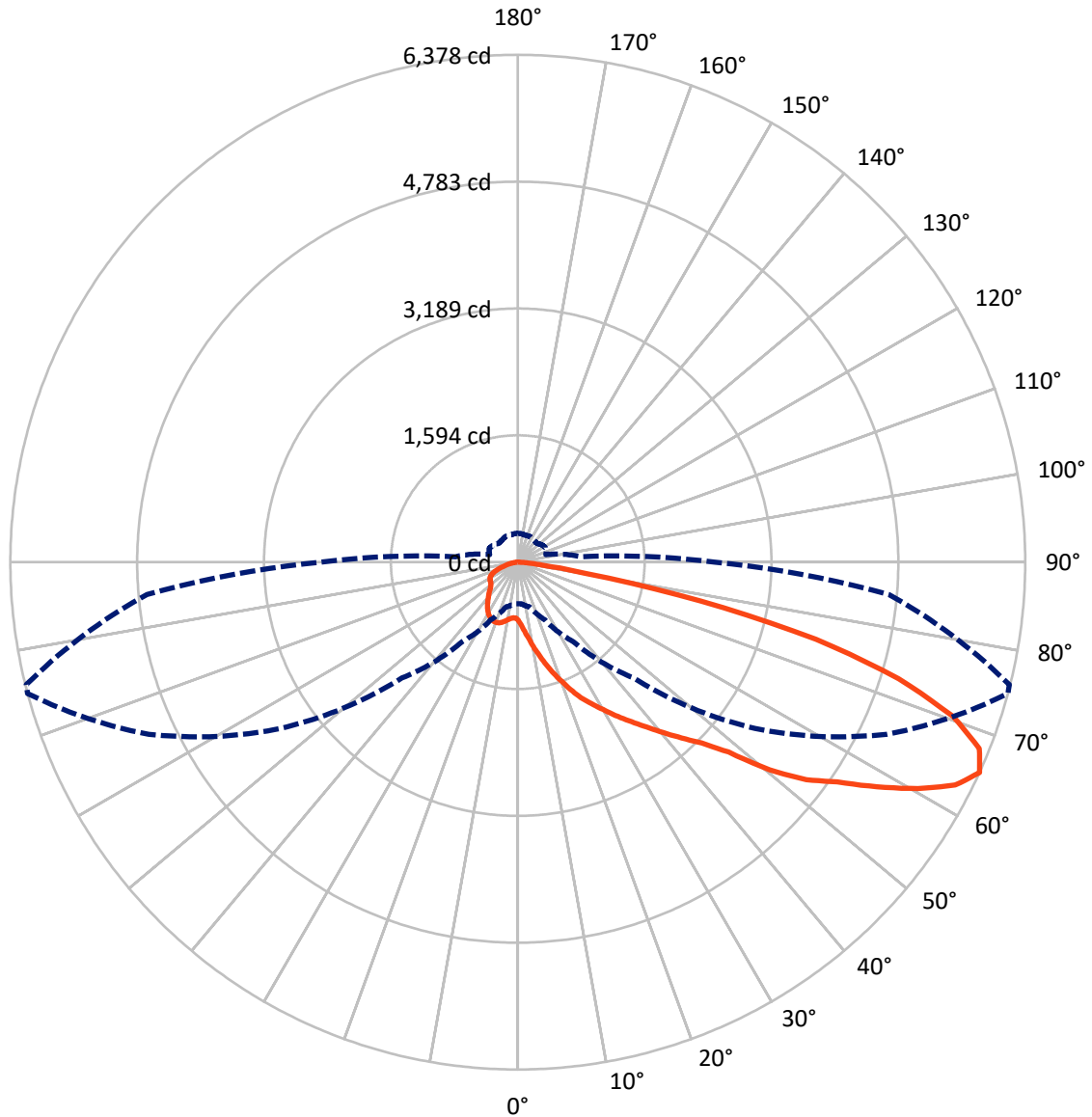
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1317.7	0.0	1317.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	6520.3	0.0	6520.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	7838.0	0.0	7838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	1.1
10°-20°	346.6	4.4
20°-30°	669.4	8.5
30°-40°	1087.4	13.9
40°-50°	1495.8	19.1
50°-60°	1766.0	22.5
60°-70°	1547.3	19.7
70°-80°	738.7	9.4
80°-90°	98.3	1.3
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°	7838.0	100.0
0°-180°	7838.0	100.0

**Coefficient of Utilization**



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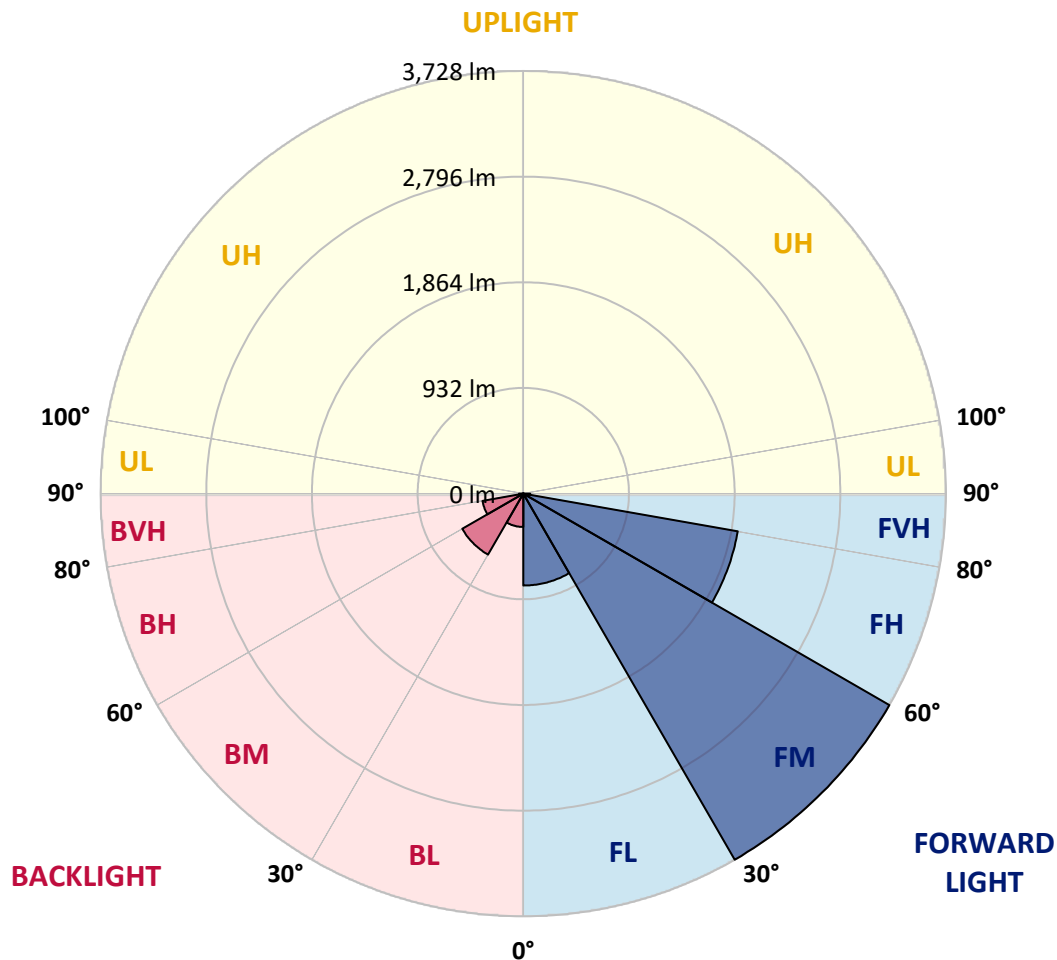
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.3	10.3			
FM (30°-60°)	3727.9	47.6			
FH (60°-80°)	1920.7	24.5			G2/5000
FVH (80°-90°)	61.4	0.8			G1/100
BL (0°-30°)	294.2	3.8	B1/500		
BM (30°-60°)	621.3	7.9	B1/1000		
BH (60°-80°)	365.4	4.7	B1/500		G1/500
BVH (80°-90°)	36.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	967.6	961.2	954.4	935.7	915.7	893.2	860.9	829.9	788.6	787.3	756.7
5°	1235.9	1231.6	1201.4	1184.0	1137.7	1076.0	1023.7	942.5	867.3	858.3	798.8
7.5°	1482.4	1465.9	1454.4	1422.9	1377.0	1297.9	1196.7	1087.1	961.2	949.3	850.7
10°	1668.2	1666.5	1660.6	1633.4	1598.9	1520.3	1408.0	1250.7	1080.3	1056.9	913.6
12.5°	1807.2	1808.5	1807.7	1807.2	1782.6	1715.8	1594.2	1428.4	1200.6	1184.0	986.3
15°	1898.6	1911.4	1916.5	1937.7	1939.9	1895.2	1790.7	1600.2	1336.2	1311.5	1064.5
17.5°	1959.0	1965.4	1989.2	2025.3	2054.7	2046.6	1953.5	1759.2	1474.8	1433.5	1145.7
20°	2016.8	2027.9	2046.2	2095.5	2147.3	2171.1	2105.7	1922.0	1612.1	1585.7	1235.4
22.5°	2137.1	2152.9	2159.2	2184.3	2228.5	2270.6	2240.9	2078.0	1762.6	1726.9	1330.7
25°	2340.8	2357.4	2339.5	2333.5	2348.0	2368.8	2362.5	2225.1	1904.6	1853.6	1420.8
27.5°	2606.1	2608.2	2573.3	2540.2	2504.4	2493.8	2474.3	2355.7	2027.9	1985.4	1511.3
30°	2890.9	2880.7	2822.9	2762.9	2702.6	2643.0	2586.9	2481.5	2165.2	2116.3	1600.2
32.5°	3155.3	3149.8	3085.6	2992.5	2890.5	2834.3	2720.8	2608.6	2312.3	2265.1	1691.6
35°	3353.4	3361.5	3290.9	3189.3	3077.9	3028.2	2884.9	2742.1	2464.5	2413.0	1791.1
37.5°	3494.2	3489.9	3427.4	3339.4	3241.6	3198.3	3076.7	2887.9	2628.2	2578.8	1899.9
40°	3544.3	3541.8	3495.4	3431.2	3369.2	3353.9	3277.3	3045.2	2815.6	2757.8	2030.9
42.5°	3512.4	3518.0	3487.3	3469.9	3458.4	3469.5	3476.7	3251.4	3020.1	2967.0	2172.8
45°	3414.7	3411.7	3407.4	3435.9	3500.5	3573.2	3674.0	3446.1	3242.5	3200.0	2363.3
47.5°	3239.9	3261.2	3271.8	3350.5	3491.6	3663.8	3901.0	3707.1	3565.1	3528.2	2653.7
50°	2995.5	3012.5	3075.4	3215.3	3425.7	3697.8	4122.9	4134.0	4103.4	4034.1	2969.1
52.5°	2613.7	2640.1	2769.7	3026.1	3290.5	3683.8	4257.3	4500.0	4540.4	4488.5	3279.9
55°	2186.4	2223.4	2360.3	2696.6	3104.3	3607.2	4349.9	4712.2	4873.3	4825.2	3579.2
57.5°	1768.1	1807.2	1947.9	2273.6	2779.5	3438.0	4410.7	4948.5	5326.5	5264.0	3951.6
60°	1325.1	1365.9	1486.7	1822.1	2317.0	3107.3	4369.5	5153.4	5779.2	5752.4	4324.4
62.5°	854.9	900.0	1005.0	1282.6	1780.9	2655.4	4148.9	5266.5	6171.2	6138.9	4596.5
65°	520.8	525.9	583.7	796.3	1218.9	2055.9	3644.2	5116.5	6377.8	6368.0	4679.4
67.5°	336.7	344.8	371.1	477.0	730.8	1428.0	2913.8	4621.2	6257.1	6253.7	4508.1
70°	284.4	287.0	298.9	321.8	424.7	866.0	2046.2	3831.7	5798.4	5798.4	4096.1
72.5°	254.2	257.6	261.9	269.1	303.1	490.6	1221.0	2982.7	5006.3	5039.5	3486.5
75°	230.8	230.0	232.5	233.8	258.5	320.5	631.3	2206.0	3872.9	3806.6	2524.9
77.5°	197.7	199.0	197.7	203.2	228.3	244.0	320.5	1480.3	2347.1	2261.3	1267.3
80°	162.4	164.5	166.7	170.1	195.1	185.4	192.6	674.7	868.1	849.8	391.5
82.5°	122.0	125.0	128.4	136.5	153.5	122.4	121.6	288.2	313.3	287.0	144.1
85°	49.3	58.2	88.0	96.1	96.5	67.2	74.8	120.3	128.0	125.0	56.5
87.5°	11.5	13.6	28.5	42.9	39.5	25.1	27.6	39.1	44.6	41.2	19.1
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°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	742.7	727.8	702.3	682.8	668.7	656.4	648.7	644.1	642.4	641.9	642.4
5°	767.8	741.4	701.0	675.5	661.5	653.4	648.7	648.3	648.7	649.2	647.9
7.5°	802.2	764.4	711.7	687.9	677.2	671.3	669.2	668.3	668.7	668.3	668.3
10°	848.1	796.3	732.5	707.8	698.9	692.1	688.7	686.6	684.9	683.2	682.3
12.5°	898.7	831.6	755.0	731.2	718.5	707.8	700.2	694.7	690.8	687.0	686.2
15°	955.3	869.0	780.1	747.0	728.7	712.9	699.8	690.8	684.0	678.5	678.1
17.5°	1009.3	904.3	797.1	754.2	727.4	705.3	687.9	675.5	667.0	659.8	659.0
20°	1067.1	937.8	804.8	749.5	714.6	687.9	664.9	650.0	640.2	632.2	630.9
22.5°	1125.3	966.3	803.9	734.6	692.5	661.1	636.8	621.1	609.6	601.6	598.6
25°	1181.0	989.3	793.3	710.8	661.9	629.2	604.5	590.1	579.9	570.1	570.1
27.5°	1231.2	1002.9	773.3	681.9	630.5	596.0	576.5	563.3	553.9	547.6	543.7
30°	1280.5	1009.3	746.1	645.3	597.3	568.0	552.2	544.6	536.1	528.9	528.0
32.5°	1324.7	1008.0	712.1	609.6	565.8	545.0	538.6	532.7	523.8	513.6	511.0
35°	1367.6	999.5	671.7	570.5	539.5	531.4	533.1	524.6	508.5	495.7	493.6
37.5°	1414.4	984.2	627.5	538.6	517.4	525.0	529.3	510.6	484.2	464.2	459.6
40°	1468.4	966.7	581.6	506.8	500.0	519.1	519.1	484.6	448.5	436.2	432.8
42.5°	1531.7	952.3	543.3	480.0	485.5	504.6	502.5	450.2	435.3	429.0	427.3
45°	1632.1	947.2	503.8	456.6	473.6	487.6	470.2	438.3	429.8	424.7	423.0
47.5°	1790.7	953.1	468.9	439.2	460.0	470.6	434.1	430.2	424.3	417.1	416.2
50°	1937.7	947.6	444.3	429.4	448.1	450.2	419.2	420.5	417.1	409.0	407.3
52.5°	2058.1	930.2	428.5	424.3	437.9	414.5	405.1	409.8	408.6	398.3	396.6
55°	2190.3	919.6	420.9	424.3	431.1	383.5	392.0	398.8	397.1	389.8	389.4
57.5°	2350.5	921.7	415.4	425.6	424.3	367.7	378.8	386.9	386.4	384.3	384.3
60°	2514.6	922.5	406.9	425.1	416.2	355.4	365.2	376.7	377.5	378.8	378.8
62.5°	2569.1	885.5	390.3	417.5	398.3	343.5	352.4	368.2	367.3	370.7	371.1
65°	2467.5	783.1	365.6	400.0	375.4	335.0	342.7	357.1	352.4	361.4	363.1
67.5°	2246.0	647.9	327.4	368.6	349.9	326.1	336.3	341.8	333.3	350.7	351.2
70°	1941.1	505.9	278.9	323.9	321.0	316.7	331.2	322.7	310.8	332.0	327.8
72.5°	1623.1	386.4	222.8	264.9	282.3	302.7	322.2	298.0	281.4	287.8	280.2
75°	1219.3	285.7	179.0	207.5	235.1	282.7	314.2	268.3	242.7	236.8	235.1
77.5°	621.5	186.6	133.9	155.2	176.4	255.5	303.1	233.4	201.1	191.7	187.5
80°	221.9	116.1	94.4	107.1	119.0	219.8	264.9	193.0	156.0	154.3	156.0
82.5°	102.9	74.8	63.3	70.1	70.6	146.7	201.9	144.1	118.6	180.3	152.2
85°	44.2	37.4	35.7	34.9	32.3	65.5	113.5	77.4	120.7	54.0	49.7
87.5°	13.2	14.9	13.2	9.8	7.2	7.2	11.5	4.3	3.0	2.1	2.1
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)