

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: P451747

Luminaire Tested: **GALN-SA2C-827-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451747  
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-SA2C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10592 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

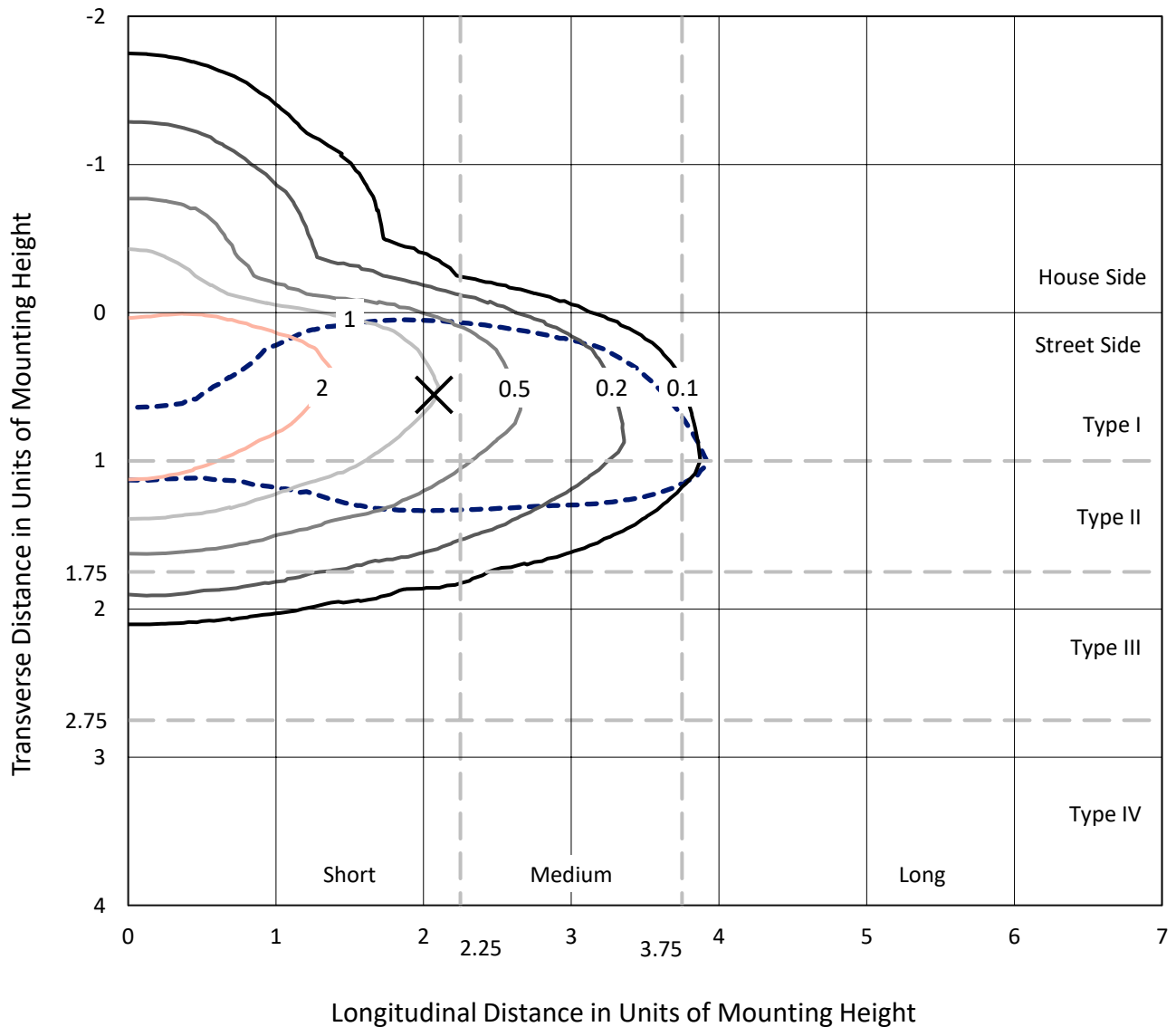
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

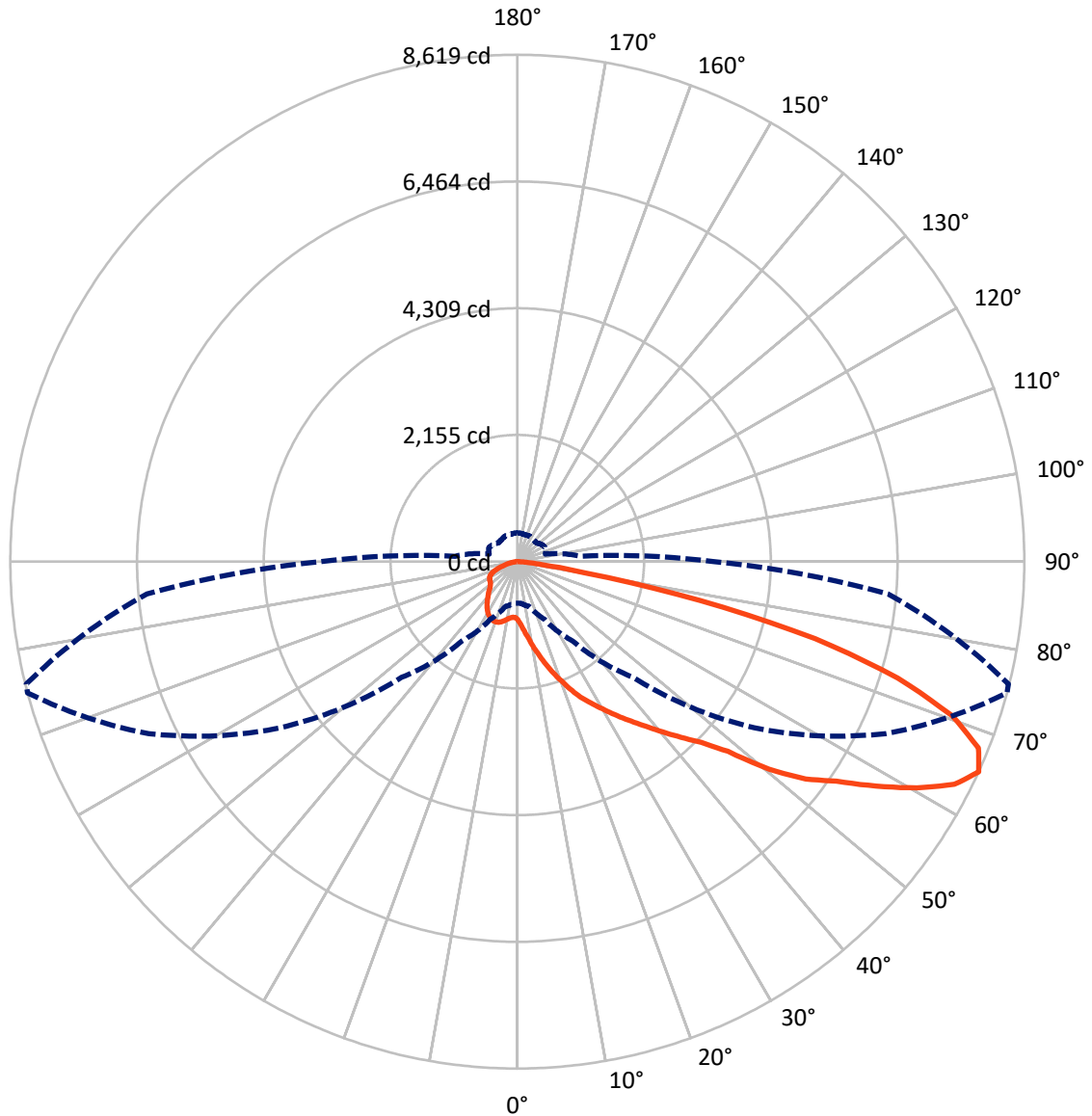
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	1780.7	0.0	1780.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	8811.4	0.0	8811.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	10592.0	0.0	10592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.6	1.1
10°-20°	468.3	4.4
20°-30°	904.7	8.5
30°-40°	1469.5	13.9
40°-50°	2021.4	19.1
50°-60°	2386.5	22.5
60°-70°	2091.0	19.7
70°-80°	998.3	9.4
80°-90°	132.8	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°	10592.0	100.0
0°-180°	10592.0	100.0

**Coefficient of Utilization**



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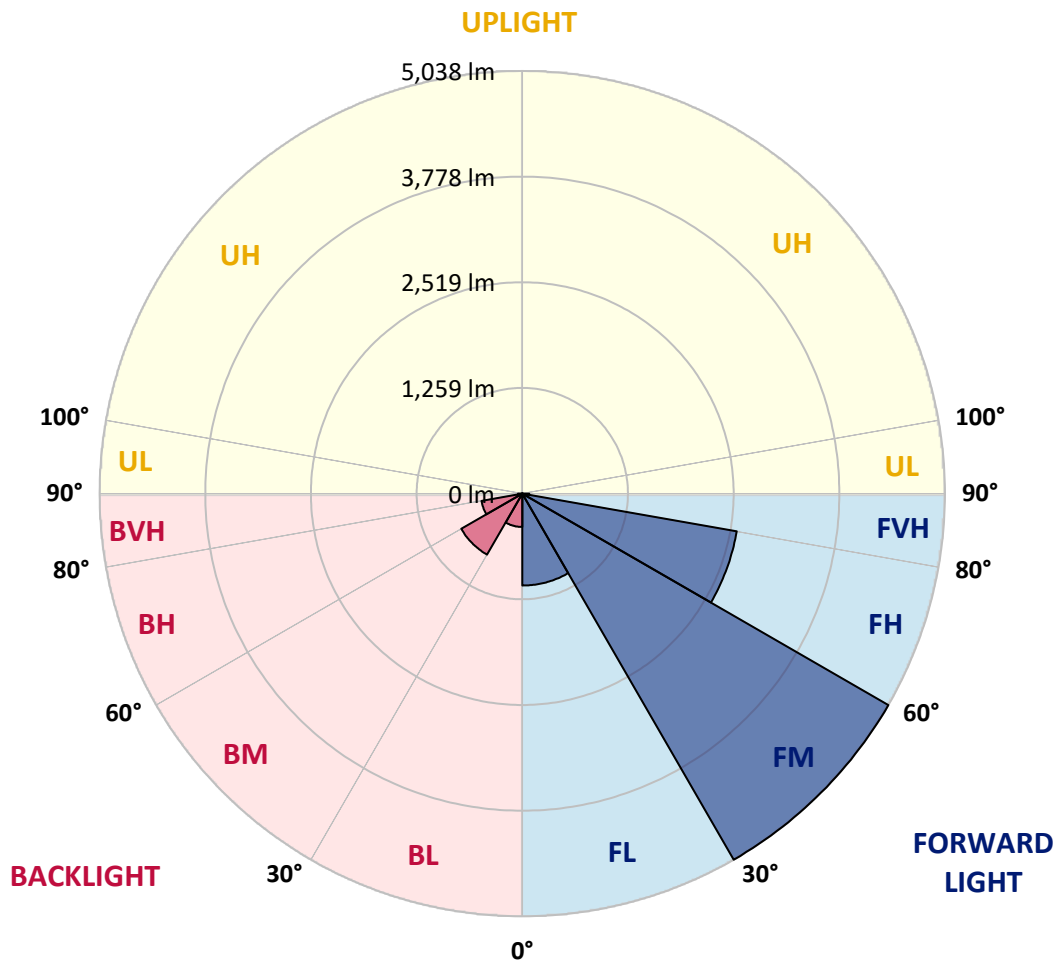
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.0	10.3			
FM (30°-60°)	5037.8	47.6			
FH (60°-80°)	2595.5	24.5			G2/5000
FVH (80°-90°)	83.0	0.8			G1/100
BL (0°-30°)	397.5	3.8	B1/500		
BM (30°-60°)	839.6	7.9	B1/1000		
BH (60°-80°)	493.7	4.7	B1/500		G1/500
BVH (80°-90°)	49.8	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°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	1307.6	1299.0	1289.8	1264.5	1237.5	1207.0	1163.4	1121.4	1065.7	1064.0	1022.6
5°	1670.1	1664.3	1623.6	1600.0	1537.4	1454.1	1383.4	1273.7	1172.0	1159.9	1079.5
7.5°	2003.3	1980.9	1965.4	1922.9	1860.8	1754.0	1617.2	1469.0	1299.0	1282.9	1149.6
10°	2254.4	2252.1	2244.0	2207.3	2160.7	2054.4	1902.8	1690.2	1459.8	1428.2	1234.6
12.5°	2442.2	2444.0	2442.8	2442.2	2408.9	2318.7	2154.4	1930.3	1622.4	1600.0	1332.9
15°	2565.7	2583.0	2589.9	2618.6	2621.5	2561.2	2419.8	2162.4	1805.7	1772.4	1438.6
17.5°	2647.3	2655.9	2688.1	2737.0	2776.6	2765.7	2639.9	2377.3	1993.0	1937.2	1548.3
20°	2725.5	2740.4	2765.1	2831.7	2901.8	2934.0	2845.5	2597.3	2178.5	2142.9	1669.5
22.5°	2888.0	2909.3	2917.9	2951.8	3011.6	3068.4	3028.2	2808.2	2381.9	2333.6	1798.2
25°	3163.2	3185.6	3161.5	3153.5	3173.0	3201.2	3192.5	3007.0	2573.8	2504.9	1920.0
27.5°	3521.7	3524.6	3477.5	3432.7	3384.4	3370.1	3343.6	3183.3	2740.4	2682.9	2042.4
30°	3906.6	3892.9	3814.7	3733.7	3652.1	3571.7	3495.9	3353.4	2926.0	2859.9	2162.4
32.5°	4264.0	4256.5	4169.8	4044.0	3906.1	3830.2	3676.8	3525.2	3124.7	3061.0	2286.0
35°	4531.7	4542.6	4447.3	4310.0	4159.4	4092.2	3898.6	3705.6	3330.4	3260.9	2420.4
37.5°	4721.9	4716.1	4631.7	4512.8	4380.6	4322.0	4157.7	3902.6	3551.6	3485.0	2567.5
40°	4789.7	4786.2	4723.6	4636.8	4553.0	4532.3	4428.9	4115.2	3805.0	3726.8	2744.4
42.5°	4746.6	4754.0	4712.7	4689.1	4673.6	4688.6	4698.3	4393.8	4081.3	4009.5	2936.3
45°	4614.4	4610.4	4604.7	4643.2	4730.5	4828.7	4964.9	4657.0	4381.8	4324.3	3193.7
47.5°	4378.3	4407.0	4421.4	4527.7	4718.4	4951.1	5271.7	5009.7	4817.8	4767.8	3586.1
50°	4048.0	4071.0	4156.0	4345.0	4629.4	4997.1	5571.6	5586.5	5545.1	5451.5	4012.4
52.5°	3532.1	3567.7	3742.9	4089.3	4446.7	4978.1	5753.1	6081.2	6135.7	6065.6	4432.3
55°	2954.7	3004.7	3189.7	3644.1	4195.1	4874.7	5878.4	6367.8	6585.6	6520.7	4836.8
57.5°	2389.4	2442.2	2632.4	3072.5	3756.1	4646.0	5960.5	6687.3	7198.0	7113.5	5340.0
60°	1790.7	1845.9	2009.1	2462.3	3131.1	4199.1	5904.8	6964.2	7809.8	7773.7	5843.9
62.5°	1155.3	1216.2	1358.1	1733.3	2406.6	3588.4	5606.6	7117.0	8339.5	8295.9	6211.6
65°	703.8	710.7	788.8	1076.1	1647.1	2778.3	4924.7	6914.2	8618.8	8605.5	6323.6
67.5°	455.0	465.9	501.5	644.6	987.6	1929.8	3937.7	6244.9	8455.6	8451.0	6092.1
70°	384.3	387.8	403.9	434.9	573.9	1170.3	2765.1	5178.0	7835.7	7835.7	5535.4
72.5°	343.6	348.2	353.9	363.7	409.6	663.0	1650.0	4030.7	6765.4	6810.2	4711.5
75°	312.0	310.8	314.3	316.0	349.3	433.2	853.1	2981.1	5233.8	5144.1	3412.0
77.5°	267.1	268.9	267.1	274.6	308.5	329.8	433.2	2000.4	3171.9	3055.8	1712.6
80°	219.5	222.3	225.2	229.8	263.7	250.5	260.3	911.7	1173.1	1148.4	529.1
82.5°	164.9	168.9	173.5	184.4	207.4	165.5	164.3	389.5	423.4	387.8	194.8
85°	66.6	78.7	118.9	129.8	130.4	90.8	101.1	162.6	172.9	168.9	76.4
87.5°	15.5	18.4	38.5	58.0	53.4	33.9	37.3	52.9	60.3	55.7	25.9
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°	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1	984.1
2.5°	1003.7	983.6	949.1	922.7	903.7	887.0	876.7	870.4	868.1	867.5	868.1
5°	1037.6	1001.9	947.4	912.9	893.9	883.0	876.7	876.1	876.7	877.3	875.5
7.5°	1084.1	1033.0	961.7	929.6	915.2	907.1	904.3	903.1	903.7	903.1	903.1
10°	1146.1	1076.1	989.9	956.6	944.5	935.3	930.7	927.8	925.5	923.2	922.1
12.5°	1214.5	1123.7	1020.3	988.2	970.9	956.6	946.2	938.7	933.6	928.4	927.3
15°	1290.9	1174.3	1054.2	1009.4	984.7	963.4	945.6	933.6	924.4	916.9	916.3
17.5°	1363.9	1222.0	1077.2	1019.2	983.0	953.1	929.6	912.9	901.4	891.6	890.5
20°	1442.0	1267.4	1087.5	1012.9	965.7	929.6	898.5	878.4	865.2	854.3	852.6
22.5°	1520.7	1305.9	1086.4	992.7	935.9	893.4	860.6	839.4	823.8	812.9	808.9
25°	1596.0	1336.9	1072.0	960.6	894.5	850.3	816.9	797.4	783.6	770.4	770.4
27.5°	1663.8	1355.3	1045.0	921.5	852.0	805.5	779.0	761.2	748.6	740.0	734.8
30°	1730.4	1363.9	1008.3	872.1	807.2	767.5	746.3	735.9	724.5	714.7	713.5
32.5°	1790.2	1362.2	962.3	823.8	764.7	736.5	727.9	719.9	707.8	694.0	690.6
35°	1848.2	1350.7	907.7	771.0	729.0	718.1	720.4	708.9	687.1	669.9	667.0
37.5°	1911.4	1330.0	848.0	727.9	699.2	709.5	715.3	690.0	654.4	627.4	621.0
40°	1984.3	1306.4	785.9	684.8	675.6	701.5	701.5	654.9	606.1	589.4	584.8
42.5°	2069.9	1286.9	734.2	648.6	656.1	681.9	679.1	608.4	588.3	579.7	577.4
45°	2205.5	1280.0	680.8	617.0	640.0	659.0	635.4	592.3	580.8	573.9	571.6
47.5°	2419.8	1288.0	633.7	593.5	621.6	636.0	586.6	581.4	573.4	563.6	562.4
50°	2618.6	1280.6	600.4	580.3	605.5	608.4	566.5	568.2	563.6	552.7	550.4
52.5°	2781.2	1257.0	579.1	573.4	591.7	560.1	547.5	553.8	552.1	538.3	536.0
55°	2959.9	1242.7	568.8	573.4	582.6	518.2	529.7	538.9	536.6	526.8	526.2
57.5°	3176.4	1245.5	561.3	575.1	573.4	496.9	511.9	522.8	522.2	519.4	519.4
60°	3398.2	1246.7	549.8	574.5	562.4	480.3	493.5	509.0	510.2	511.9	511.9
62.5°	3471.7	1196.7	527.4	564.2	538.3	464.2	476.3	497.5	496.4	501.0	501.5
65°	3334.4	1058.2	494.1	540.6	507.3	452.7	463.1	482.6	476.3	488.3	490.6
67.5°	3035.1	875.5	442.4	498.1	472.8	440.6	454.4	461.9	450.4	474.0	474.5
70°	2623.2	683.7	376.9	437.8	433.8	428.0	447.5	436.1	420.0	448.7	442.9
72.5°	2193.5	522.2	301.0	357.9	381.5	409.0	435.5	402.7	380.3	388.9	378.6
75°	1647.7	386.1	241.9	280.4	317.7	382.0	424.6	362.5	328.0	320.0	317.7
77.5°	839.9	252.2	181.0	209.7	238.4	345.3	409.6	315.4	271.7	259.1	253.4
80°	299.9	156.8	127.5	144.8	160.9	297.0	357.9	260.8	210.8	208.5	210.8
82.5°	139.0	101.1	85.6	94.8	95.4	198.2	272.9	194.8	160.3	243.6	205.7
85°	59.7	50.6	48.3	47.1	43.7	88.5	153.4	104.6	163.2	73.0	67.2
87.5°	17.8	20.1	17.8	13.2	9.8	9.8	15.5	5.7	4.0	2.9	2.9
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)