

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: P650819

Luminaire Tested: **GALN-SA3C-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650819  
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-SA3C-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA 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: 10734.6 lumens  
Efficiency: N/A  
Efficacy: 67.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

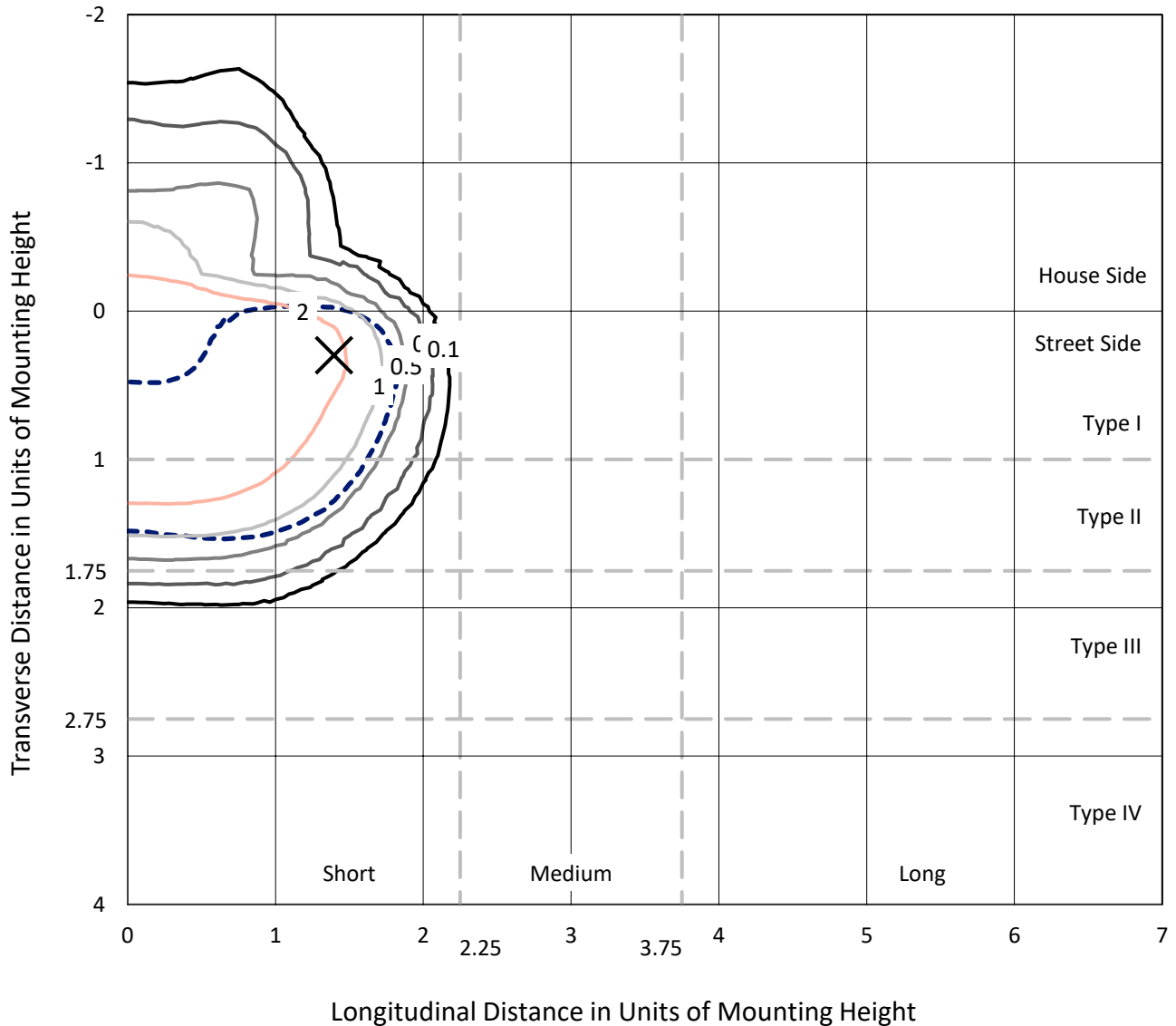
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P650819  
 CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

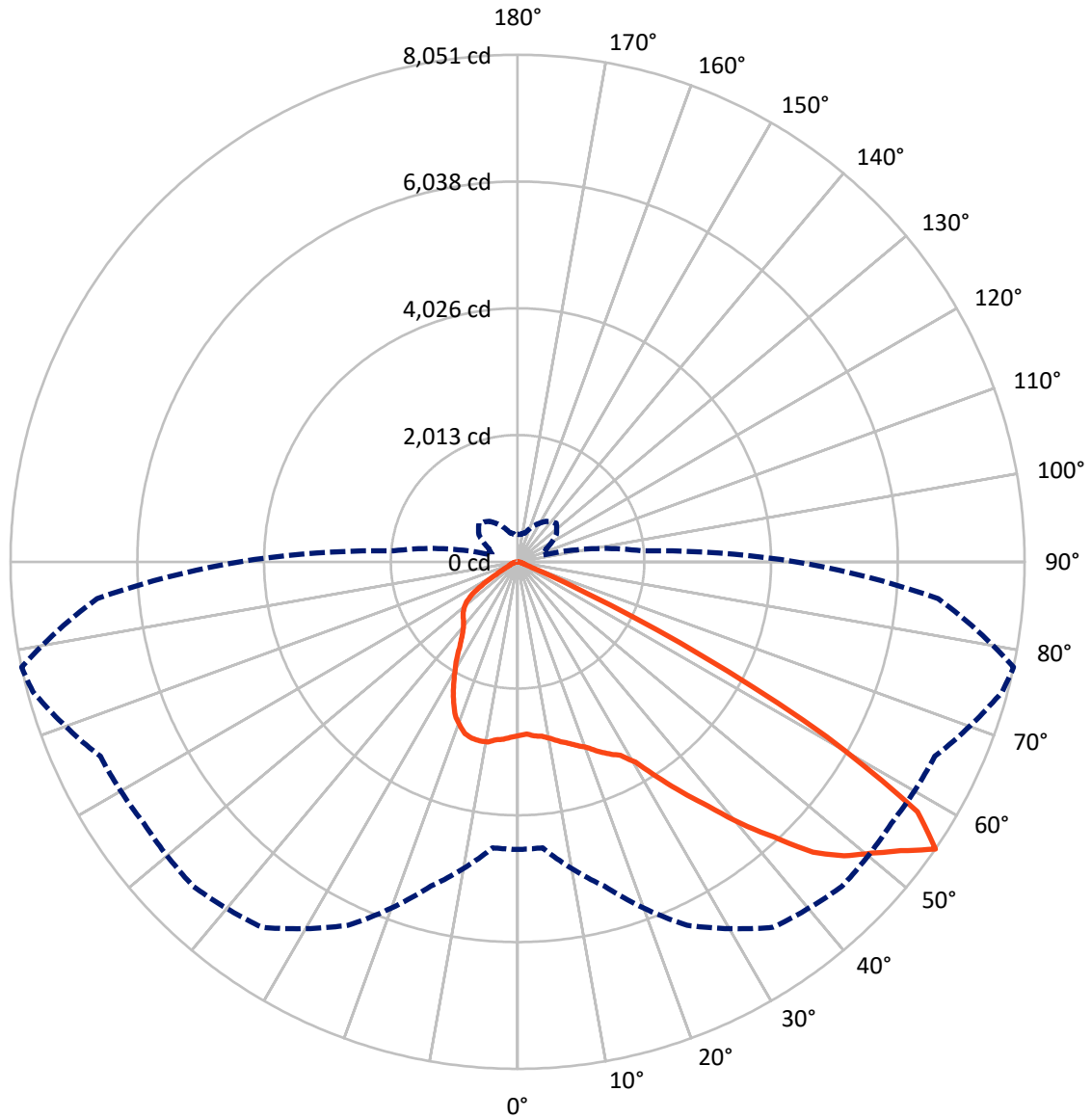
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P650819  
CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P650819  
 CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1993.8	0.0	1993.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8740.7	0.0	8740.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10734.6	0.0	10734.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.1	2.3
10°-20°	651.3	6.1
20°-30°	1141.6	10.6
30°-40°	1882.3	17.5
40°-50°	2739.0	25.5
50°-60°	3103.6	28.9
60°-70°	887.4	8.3
70°-80°	68.9	0.6
80°-90°	14.3	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°	10734.6	100.0
0°-180°	10734.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P650819

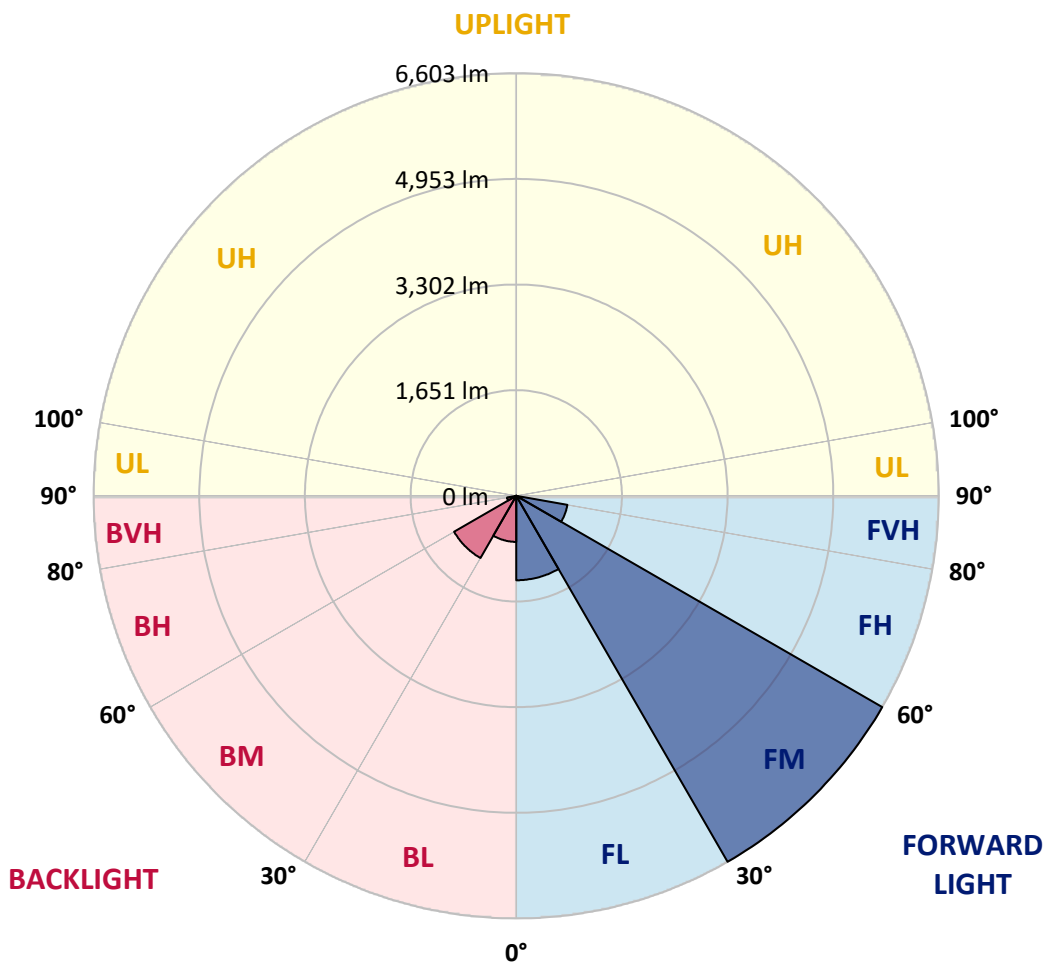
CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1319.6	12.3			
FM (30°-60°)	6603.4	61.5			
FH (60°-80°)	810.7	7.6			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	719.4	6.7	B2/1000		
BM (30°-60°)	1121.6	10.4	B2/2500		
BH (60°-80°)	145.5	1.4	B1/500		G1/500
BVH (80°-90°)	7.4	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





REPORT NUMBER: P650819

CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	2594.8	2619.7	2623.6	2654.3	2652.3	2704.2	2719.5	2721.5	2756.0	2738.7	2782.9
5°	2521.9	2508.5	2502.6	2556.4	2571.8	2617.9	2656.2	2679.3	2750.2	2775.2	2821.3
7.5°	2456.6	2456.6	2460.4	2508.5	2502.6	2562.2	2602.5	2673.5	2777.2	2798.3	2853.9
10°	2393.3	2370.3	2399.0	2448.9	2491.1	2518.0	2602.5	2669.7	2790.5	2852.0	2928.8
12.5°	2360.7	2372.2	2376.0	2412.5	2458.5	2539.1	2585.2	2696.5	2886.5	2923.0	3005.5
15°	2566.0	2543.0	2487.3	2454.7	2493.1	2531.5	2646.6	2759.8	2936.4	2988.2	3080.3
17.5°	2804.0	2784.8	2738.7	2650.5	2564.1	2635.1	2725.3	2829.0	2990.2	3067.0	3203.2
20°	3114.9	3084.2	3038.1	2865.4	2790.5	2713.8	2809.8	2932.6	3078.5	3147.5	3287.6
22.5°	3485.4	3485.4	3381.7	3172.5	3017.0	2944.1	2984.4	3055.4	3176.3	3270.4	3408.6
25°	3871.1	3859.6	3765.5	3548.7	3285.7	3199.3	3245.4	3295.3	3327.9	3379.7	3471.9
27.5°	4312.5	4245.4	4126.4	3886.4	3654.2	3487.2	3537.2	3493.0	3452.7	3479.6	3612.0
30°	4611.9	4654.1	4502.5	4272.2	4053.5	3867.3	3876.8	3838.5	3654.2	3692.6	3771.3
32.5°	4922.8	4949.7	4865.3	4738.6	4519.8	4302.9	4224.3	4191.6	4053.5	4070.7	3993.9
35°	5181.9	5233.7	5158.9	5103.3	5039.9	4865.3	4648.4	4753.9	4531.3	4489.1	4289.5
37.5°	5419.9	5404.5	5492.8	5435.3	5421.8	5299.0	5061.0	5082.1	4932.4	4922.8	4692.5
40°	5632.9	5636.8	5757.7	5784.6	5730.8	5512.0	5166.6	5333.5	5454.5	5466.0	5170.4
42.5°	5809.5	5861.3	5965.0	6181.9	6101.2	5736.5	5275.9	5458.3	5907.4	5978.4	5623.3
45°	5963.0	6068.6	6197.2	6391.0	6345.0	6055.2	5548.5	5715.4	6391.0	6577.2	6049.4
47.5°	5972.6	6110.8	6250.9	6538.8	6596.4	6226.0	5830.7	6122.3	6774.8	6976.4	6360.3
50°	5934.3	6007.2	6287.4	6600.3	6730.8	6504.3	6226.0	6463.9	7147.2	7273.9	6517.7
52.5°	5479.4	5535.0	6097.4	6657.8	6972.6	6819.0	6750.0	6939.9	7527.2	7621.2	6665.5
55°	4567.8	4558.1	5331.6	6368.0	7083.9	7285.4	7243.2	7310.3	7966.7	8051.1	6701.9
57.5°	3124.5	3299.2	3967.1	5302.8	6402.5	7176.0	7220.2	7108.8	7454.3	7486.9	5842.2
60°	1685.1	1758.0	2295.4	3539.1	4874.9	5847.9	5963.0	5761.5	5734.7	5642.5	4170.5
62.5°	669.8	706.3	1011.5	1752.2	2656.2	3554.4	3802.0	3719.5	3542.9	3301.1	2159.1
65°	318.6	341.6	502.8	819.5	1178.4	1481.7	1729.3	1806.0	1332.0	1199.5	712.1
67.5°	216.9	234.1	366.6	468.3	420.3	439.5	572.0	531.6	312.9	266.8	197.7
70°	165.1	176.6	293.7	318.6	188.0	132.5	147.8	138.2	128.6	130.5	128.6
72.5°	117.1	126.7	215.0	188.0	82.5	61.4	78.7	94.0	94.0	94.0	92.1
75°	71.0	80.6	124.7	72.9	32.6	32.6	49.9	63.3	67.2	69.1	65.3
77.5°	36.5	46.1	42.2	21.1	21.1	25.0	36.5	44.2	48.0	48.0	46.1
80°	7.7	7.7	7.7	11.5	21.1	26.8	36.5	40.3	46.1	46.1	42.2
82.5°	0.0	1.9	5.7	11.5	19.2	25.0	34.6	40.3	46.1	48.0	44.2
85°	0.0	1.9	3.9	7.7	13.5	15.4	13.5	11.5	11.5	11.5	11.5
87.5°	0.0	0.0	1.9	1.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650819

CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8	2759.8
2.5°	2786.7	2792.5	2782.9	2780.9	2773.3	2796.3	2740.7	2727.2	2761.8	2729.1	2736.8
5°	2823.2	2836.6	2819.4	2790.5	2748.3	2683.0	2627.5	2554.5	2520.0	2495.0	2491.1
7.5°	2850.1	2859.7	2842.4	2750.2	2623.6	2458.5	2335.7	2245.5	2174.5	2153.4	2118.8
10°	2959.5	2961.4	2875.0	2671.6	2424.0	2207.1	2019.0	1880.8	1809.8	1765.7	1746.5
12.5°	3032.4	3028.5	2853.9	2516.1	2186.0	1898.1	1683.2	1516.2	1451.0	1429.9	1416.4
15°	3124.5	3103.4	2804.0	2356.8	1879.0	1568.0	1374.2	1259.0	1253.3	1239.8	1253.3
17.5°	3197.4	3137.9	2731.1	2067.0	1585.3	1291.6	1165.0	1172.7	1188.0	1201.5	1203.4
20°	3316.4	3193.6	2564.1	1813.7	1312.7	1107.4	1105.5	1140.1	1178.4	1193.8	1209.1
22.5°	3406.6	3216.7	2385.6	1543.1	1090.1	1032.6	1065.2	1117.0	1145.8	1161.2	1184.1
25°	3439.3	3153.3	2147.6	1272.4	982.6	998.0	1047.9	1082.5	1119.0	1136.2	1126.6
27.5°	3471.9	3120.7	1863.6	1047.9	925.1	975.0	1017.2	1051.8	1063.3	1086.3	1101.6
30°	3550.5	3007.4	1608.3	905.8	896.3	959.6	990.4	1001.8	1032.6	1046.0	1046.0
32.5°	3613.9	2963.3	1337.7	838.7	892.5	967.3	971.1	971.1	975.0	965.4	961.5
35°	3744.4	2811.6	1095.9	798.4	890.5	969.3	978.8	946.2	857.9	823.3	813.8
37.5°	3905.6	2713.8	917.4	788.8	904.0	992.2	1007.6	884.7	769.6	713.9	704.3
40°	4101.4	2644.7	800.3	785.0	934.7	1046.0	999.9	836.8	687.1	606.4	602.7
42.5°	4329.8	2581.4	721.7	783.1	973.0	1101.6	992.2	796.5	602.7	548.9	556.6
45°	4512.1	2546.8	667.9	769.6	986.5	1134.3	998.0	725.4	568.1	533.5	537.4
47.5°	4654.1	2473.9	623.8	746.6	984.6	1145.8	946.2	696.7	550.9	560.4	570.0
50°	4658.0	2376.0	568.1	696.7	955.8	1124.7	886.7	669.8	547.0	587.3	606.4
52.5°	4606.2	2237.8	508.6	625.7	888.6	1051.8	832.9	658.3	529.7	525.9	548.9
55°	4421.9	1978.7	408.8	506.7	750.4	867.5	785.0	637.2	477.9	433.8	437.6
57.5°	3573.6	1418.3	301.3	362.7	531.6	635.3	708.2	627.6	429.9	368.5	370.4
60°	2212.8	804.2	220.7	247.6	328.2	385.8	573.8	583.5	383.8	310.9	307.0
62.5°	1136.2	397.3	170.8	174.7	201.5	226.5	393.4	489.4	347.4	295.5	295.5
65°	380.0	195.8	149.7	134.3	134.3	140.1	238.0	339.7	293.7	247.6	247.6
67.5°	163.2	145.8	130.5	117.1	107.5	101.8	134.3	197.7	218.8	188.0	180.4
70°	126.7	122.9	113.2	97.9	84.4	76.8	78.7	101.8	124.7	120.9	117.1
72.5°	94.0	94.0	90.2	76.8	65.3	55.7	51.8	53.7	59.5	61.4	63.3
75°	65.3	67.2	67.2	59.5	48.0	40.3	34.6	28.8	23.0	19.2	17.2
77.5°	44.2	46.1	49.9	44.2	36.5	26.8	21.1	15.4	9.6	3.9	3.9
80°	38.3	44.2	48.0	44.2	38.3	28.8	21.1	11.5	5.7	0.0	0.0
82.5°	40.3	44.2	49.9	42.2	36.5	26.8	21.1	13.5	5.7	1.9	0.0
85°	9.6	9.6	11.5	13.5	17.2	19.2	15.4	9.6	5.7	1.9	0.0
87.5°	3.9	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	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)