

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: P532131

Luminaire Tested: **GALN-SA7C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23903 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

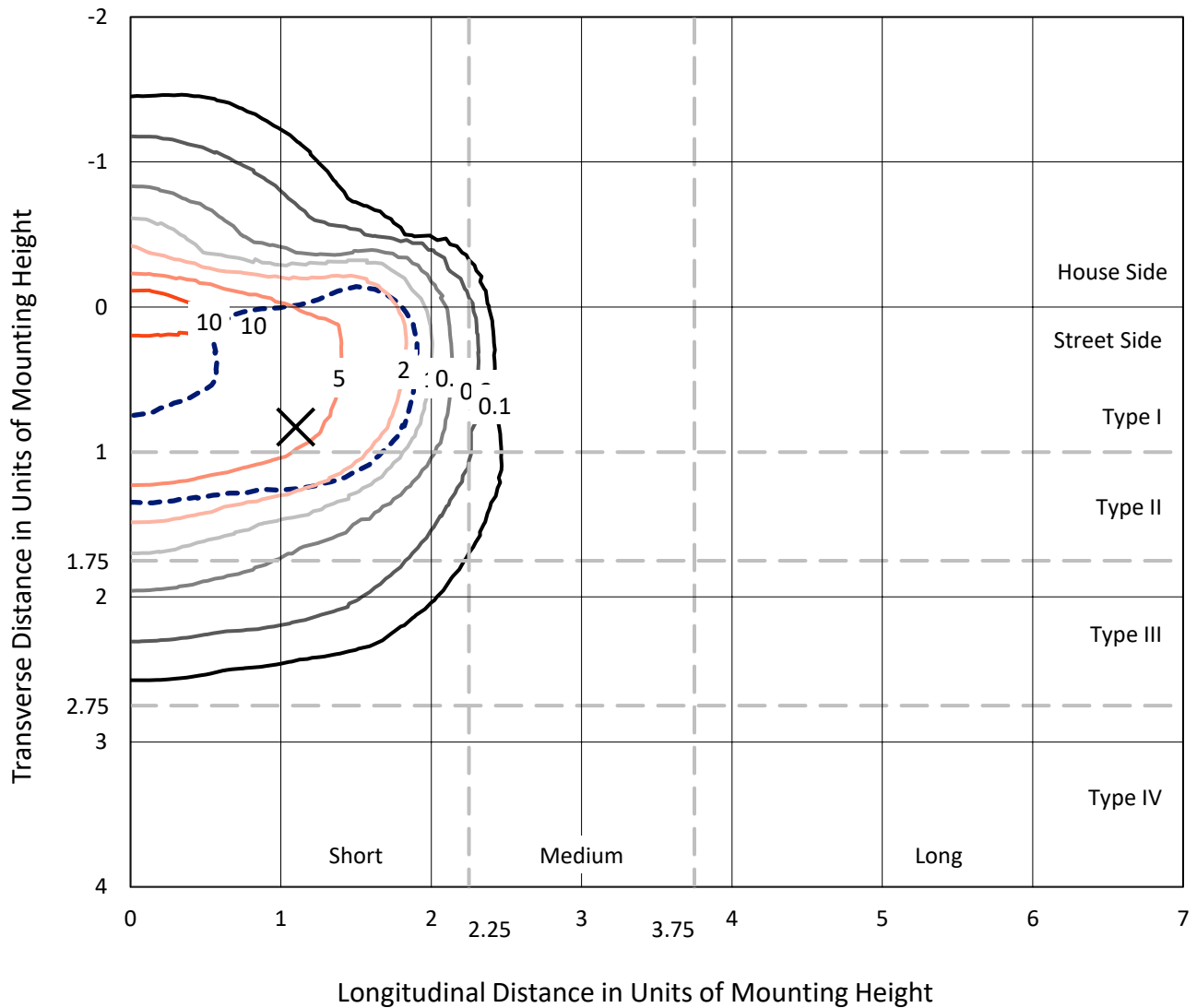
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

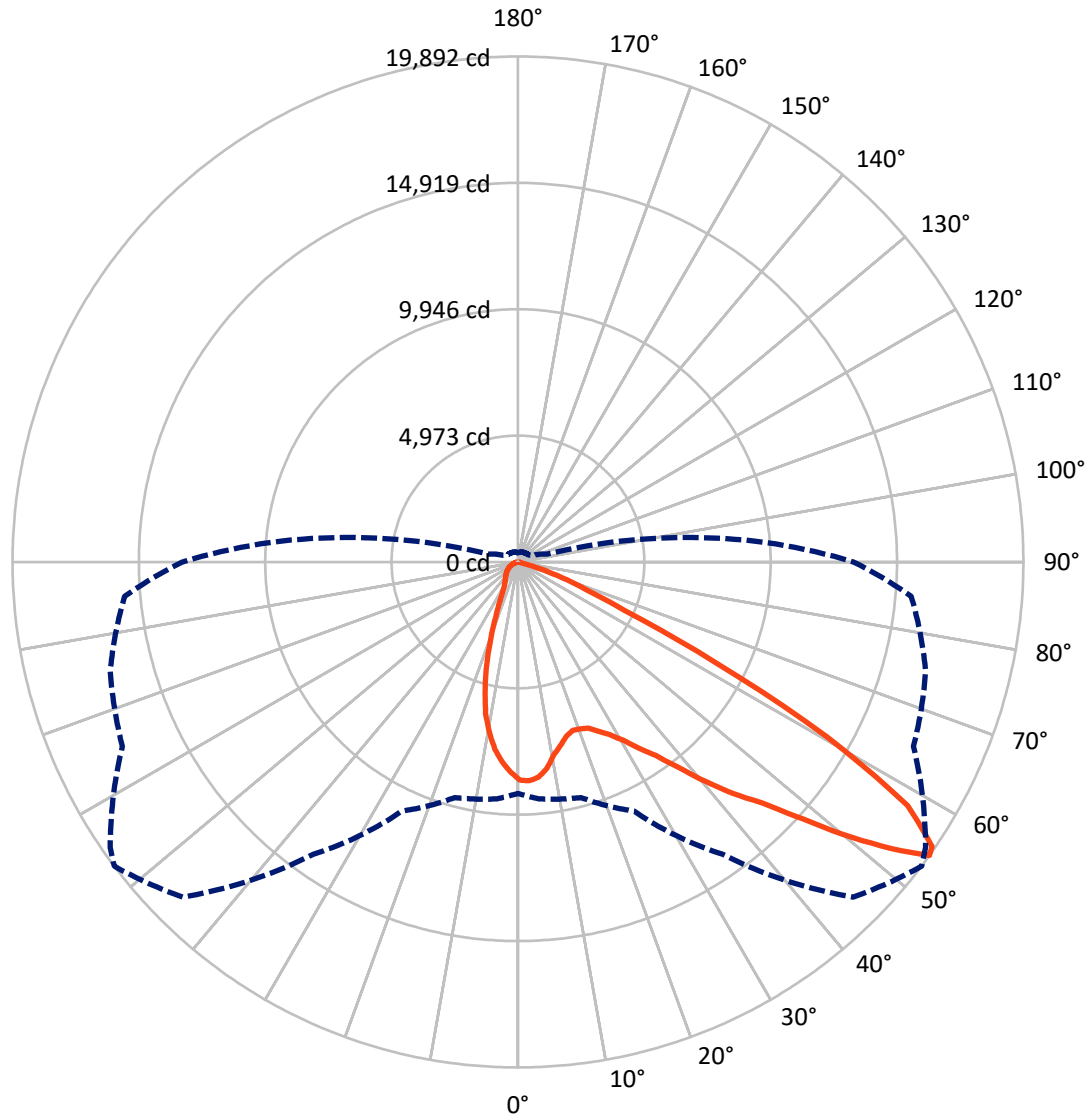
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3954.8	0.0	3954.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19948.2	0.0	19948.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	23903.0	0.0	23903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.6	3.1
10°-20°	1688.8	7.1
20°-30°	2400.2	10.0
30°-40°	3704.1	15.5
40°-50°	5807.7	24.3
50°-60°	6746.5	28.2
60°-70°	2549.2	10.7
70°-80°	242.4	1.0
80°-90°	27.3	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°	23903.0	100.0
0°-180°	23903.0	100.0

Coefficient of Utilization



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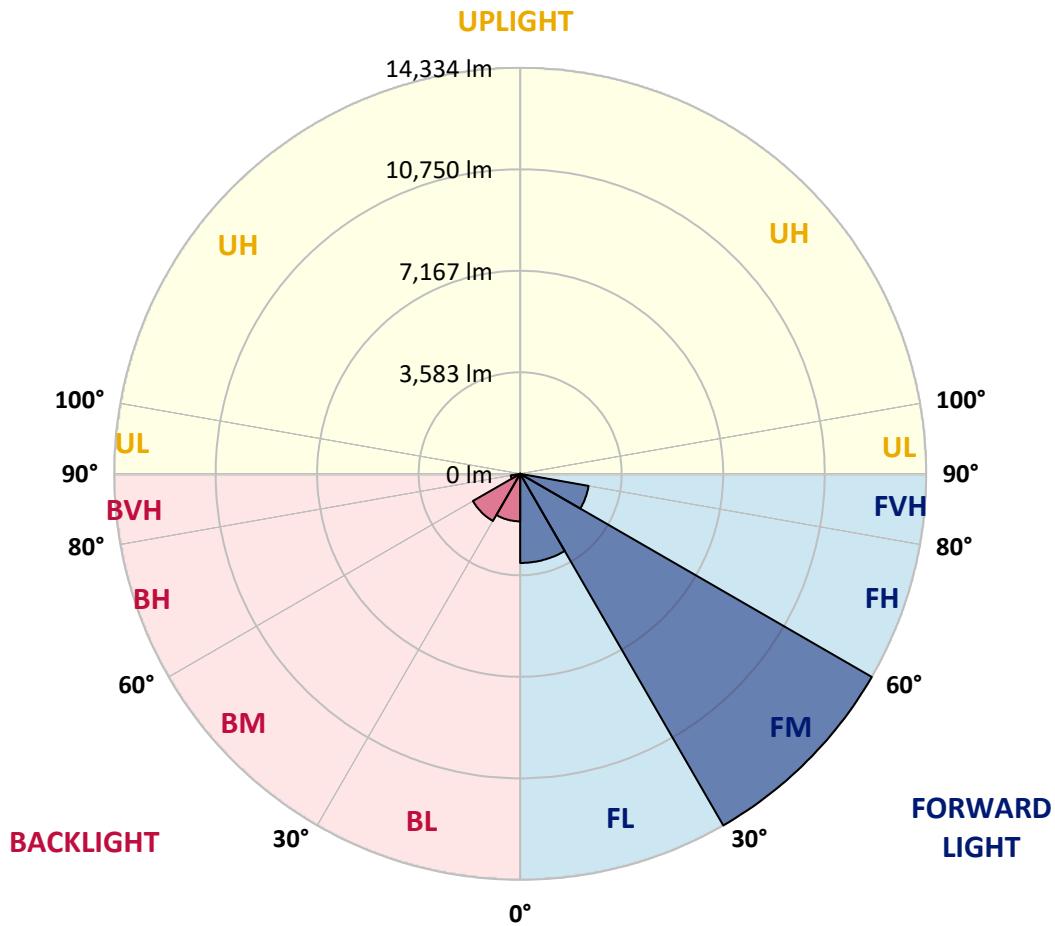
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.4	13.2			
FM (30°-60°)	14333.9	60.0			
FH (60°-80°)	2452.8	10.3			G2/5000
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	1678.3	7.0	B3/2500		
BM (30°-60°)	1924.5	8.1	B2/2500		
BH (60°-80°)	338.8	1.4	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6
2.5°	8541.0	8465.3	8541.0	8549.9	8603.4	8652.4	8621.2	8692.4	8652.4	8607.8	8594.5
5°	7850.8	7953.2	7957.7	8118.0	8082.4	8376.3	8505.4	8469.8	8688.0	8674.6	8643.4
7.5°	7231.8	7191.7	7245.2	7432.2	7668.2	8006.7	8193.7	8189.2	8500.9	8723.6	8701.3
10°	6657.4	6652.9	6764.2	6911.2	7111.6	7467.8	7726.1	7855.2	8340.6	8679.1	8728.1
12.5°	6269.9	6252.1	6372.4	6492.6	6808.8	7084.9	7414.4	7476.7	8033.4	8523.2	8603.4
15°	6016.1	6056.2	6065.1	6296.7	6497.1	6862.2	7120.5	7249.6	7890.9	8398.5	8705.8
17.5°	5971.6	6025.0	6029.5	6221.0	6434.7	6742.0	6969.1	7142.8	7770.6	8460.9	8710.2
20°	6060.7	6029.5	6056.2	6176.4	6385.7	6679.6	7009.2	7067.1	7730.6	8492.0	8759.2
22.5°	6314.5	6305.6	6238.8	6336.7	6483.7	6791.0	7102.7	7191.7	7846.3	8652.4	8799.3
25°	6595.0	6644.0	6581.7	6568.3	6670.7	6973.5	7387.7	7503.5	8233.8	8941.8	8924.0
27.5°	7120.5	7071.5	7071.5	7009.2	6982.4	7129.4	7694.9	7886.4	8665.7	9315.9	9066.5
30°	7623.7	7677.1	7637.0	7659.3	7481.2	7467.8	8131.3	8367.4	9431.6	9885.9	9369.3
32.5°	8420.8	8349.5	8416.3	8358.4	8122.4	7882.0	8723.6	8968.5	10357.9	10540.5	9823.5
35°	9084.3	9053.1	9338.1	9329.2	8946.3	8710.2	9351.5	9716.6	11003.6	11324.2	10357.9
37.5°	10028.4	9970.5	10295.5	10451.4	10108.5	9756.7	10251.0	10674.1	11604.7	11952.1	10905.6
40°	10999.1	11146.1	11582.5	11840.8	11475.6	11008.0	11350.9	11480.1	12005.5	12361.8	11279.7
42.5°	12228.2	12441.9	12887.2	13109.9	13078.7	12571.1	12468.6	12464.2	12295.0	12246.0	11555.8
45°	13408.2	13328.1	14013.9	14499.3	14891.1	14744.2	13546.3	13412.7	12753.6	12419.7	11627.0
47.5°	13924.8	13898.1	14365.7	15229.6	16565.5	16748.1	15113.8	14597.2	13528.5	13150.0	12014.4
50°	13256.8	13394.9	13858.0	14815.4	16863.8	18257.7	17037.5	16342.8	14432.5	14040.6	12931.8
52.5°	11074.8	11168.3	11609.2	12824.9	15848.5	19148.3	18881.1	18480.3	16093.5	15443.3	14530.4
54°	9106.6	9355.9	9596.4	10816.6	14040.6	18654.0	19891.9	19584.7	17175.6	16610.0	15536.8
55°	7931.0	8077.9	8251.6	9467.3	12789.3	17816.8	19776.2	19802.9	17901.4	16975.2	16213.7
57.5°	5793.5	5895.9	5717.8	6256.6	8781.5	14468.1	18088.4	18809.8	18881.1	17522.9	16627.8
60°	4426.4	4470.9	4270.5	4355.1	5459.5	9930.4	13991.6	14860.0	17033.1	15314.2	14085.1
62.5°	3433.3	3442.2	3437.8	3584.7	3762.9	5842.5	8750.3	9520.7	11742.8	10874.4	9565.2
65°	2529.4	2489.3	2560.5	3005.8	3210.7	3673.8	4608.9	5170.0	6381.3	5388.2	3851.9
67.5°	1638.7	1652.1	1723.3	2235.5	2752.0	2818.8	2836.6	2792.1	2796.5	1540.8	966.3
70°	984.1	1006.4	984.1	1264.7	1968.3	2021.7	1848.0	1803.5	1407.2	365.2	360.7
72.5°	583.4	552.2	494.3	543.3	819.4	979.7	881.7	877.3	552.2	213.7	213.7
75°	244.9	222.7	182.6	164.8	218.2	209.3	209.3	187.0	147.0	142.5	133.6
77.5°	49.0	49.0	35.6	40.1	53.4	62.3	75.7	75.7	89.1	89.1	84.6
80°	0.0	4.5	13.4	26.7	40.1	57.9	66.8	66.8	75.7	75.7	62.3
82.5°	0.0	4.5	13.4	26.7	35.6	53.4	66.8	66.8	75.7	80.2	66.8
85°	0.0	4.5	13.4	22.3	35.6	44.5	44.5	40.1	31.2	26.7	17.8
87.5°	0.0	0.0	4.5	8.9	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6	8585.6
2.5°	8625.6	8621.2	8514.3	8340.6	8300.6	8153.6	8135.8	8046.7	8095.7	7931.0	7913.1
5°	8554.4	8500.9	8371.8	8260.5	7935.4	7703.8	7521.3	7298.6	7169.5	7191.7	7107.1
7.5°	8656.8	8518.8	8291.7	7904.2	7507.9	7102.7	6884.5	6430.3	6265.5	6020.6	5985.0
10°	8549.9	8447.5	8095.7	7454.5	6906.7	6323.4	5811.3	5308.1	4925.1	4760.4	4724.7
12.5°	8541.0	8362.9	7775.1	7062.6	6269.9	5432.8	4689.1	4061.2	3682.7	3469.0	3420.0
15°	8403.0	8189.2	7414.4	6457.0	5361.5	4319.5	3509.0	2903.4	2614.0	2489.3	2524.9
17.5°	8416.3	8095.7	7053.7	5815.7	4466.4	3170.6	2395.8	2084.0	2008.3	2039.5	2039.5
20°	8403.0	7886.4	6617.3	5076.5	3420.0	2199.8	1759.0	1647.6	1696.6	1794.6	1772.3
22.5°	8331.7	7788.5	6216.5	4297.2	2516.0	1629.8	1411.6	1416.1	1491.8	1612.0	1638.7
25°	8385.2	7570.3	5708.9	3509.0	1834.7	1300.3	1224.6	1255.8	1335.9	1425.0	1442.8
27.5°	8345.1	7414.4	5178.9	2725.3	1340.4	1117.7	1113.3	1148.9	1184.5	1251.3	1251.3
30°	8389.6	7271.9	4657.9	2026.2	1104.4	1024.2	1006.4	1033.1	1068.7	1082.1	1077.6
32.5°	8554.4	7165.0	4056.8	1514.1	975.2	935.1	935.1	935.1	930.7	948.5	953.0
35°	8915.1	7182.8	3526.8	1171.2	890.6	859.4	846.1	828.3	819.4	828.3	832.7
37.5°	9307.0	7173.9	2979.1	997.5	828.3	801.6	770.4	743.7	739.2	748.1	734.8
40°	9480.6	7258.5	2471.5	895.1	770.4	739.2	690.2	668.0	672.4	681.3	672.4
42.5°	9716.6	7285.3	2141.9	814.9	716.9	668.0	636.8	610.1	605.6	619.0	614.5
45°	9712.2	7133.8	1794.6	770.4	668.0	614.5	574.4	552.2	552.2	561.1	565.5
47.5°	9997.2	7111.6	1540.8	730.3	632.3	578.9	529.9	512.1	507.7	507.7	498.7
50°	10660.7	7423.3	1344.8	685.8	587.8	538.8	498.7	476.5	458.7	449.8	445.3
52.5°	11956.5	8394.1	1193.4	632.3	538.8	498.7	463.1	445.3	423.0	400.8	396.3
54°	13212.3	9396.0	1184.5	587.8	498.7	472.0	440.9	431.9	405.2	374.1	365.2
55°	13777.9	9979.4	1215.7	552.2	472.0	454.2	427.5	418.6	391.9	356.2	351.8
57.5°	14245.4	10206.5	1197.9	458.7	427.5	423.0	400.8	387.4	356.2	307.3	298.4
60°	11466.7	7717.2	859.4	405.2	391.9	383.0	365.2	356.2	316.2	262.7	258.3
62.5°	7245.2	4439.7	547.7	356.2	342.9	329.5	307.3	298.4	262.7	209.3	195.9
65°	3086.0	1839.1	369.6	316.2	293.9	271.6	253.8	240.5	209.3	155.9	151.4
67.5°	801.6	654.6	307.3	276.1	244.9	213.7	200.4	178.1	142.5	106.9	102.4
70°	360.7	329.5	258.3	231.6	195.9	164.8	147.0	124.7	93.5	71.2	66.8
72.5°	213.7	209.3	195.9	173.7	147.0	124.7	106.9	84.6	62.3	40.1	40.1
75°	133.6	129.1	133.6	120.2	102.4	93.5	80.2	57.9	35.6	17.8	17.8
77.5°	80.2	80.2	80.2	75.7	71.2	71.2	57.9	35.6	17.8	4.5	4.5
80°	62.3	62.3	66.8	62.3	62.3	62.3	49.0	26.7	8.9	0.0	0.0
82.5°	62.3	66.8	75.7	71.2	62.3	53.4	44.5	26.7	8.9	0.0	0.0
85°	17.8	13.4	22.3	31.2	44.5	40.1	31.2	22.3	8.9	0.0	0.0
87.5°	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	4.5	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)