

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: P532599

Luminaire Tested: **GALN-SA8A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532599  
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-SA8A-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA 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: 18026 lumens  
Efficiency: N/A  
Efficacy: 73.9 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

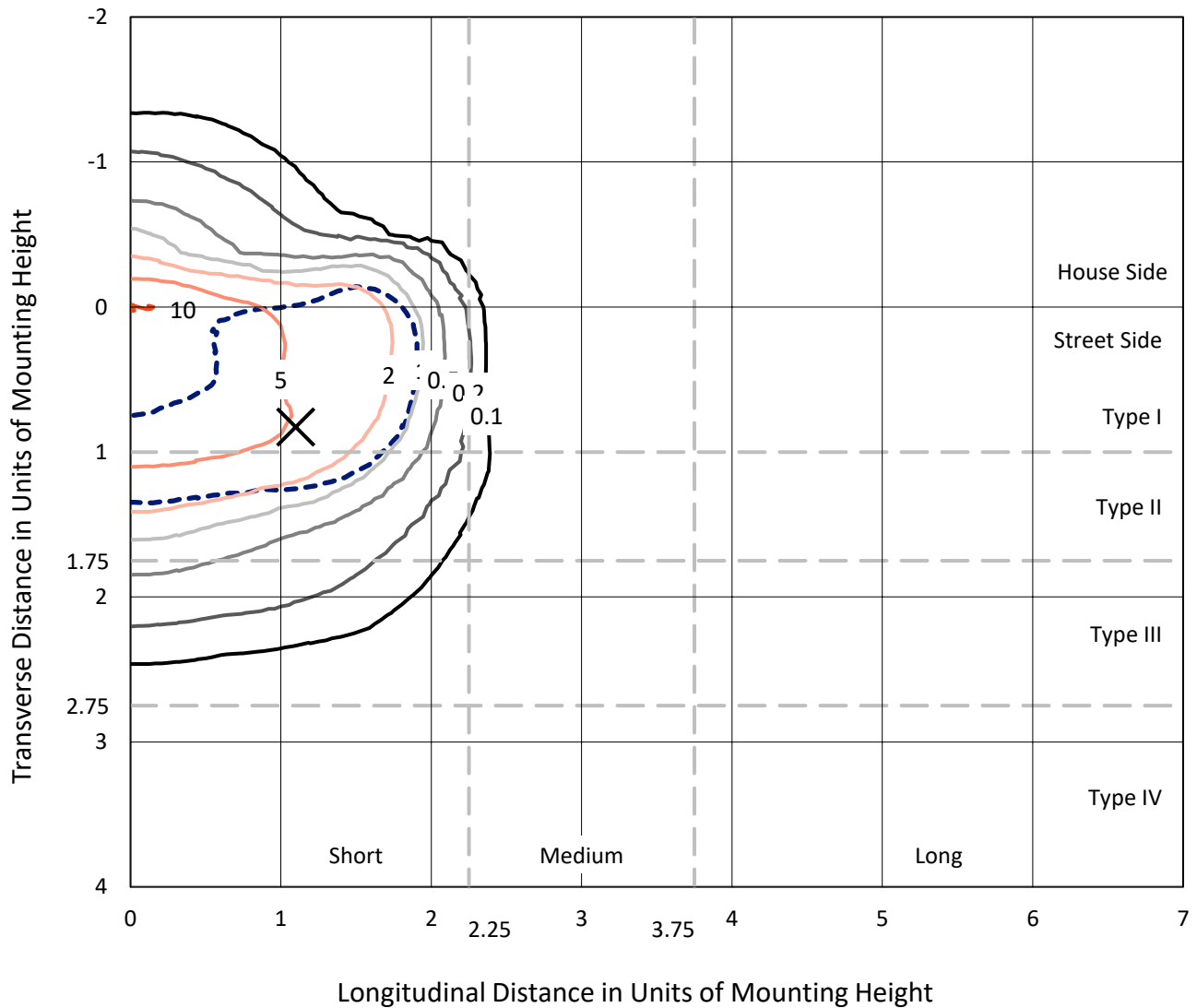
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

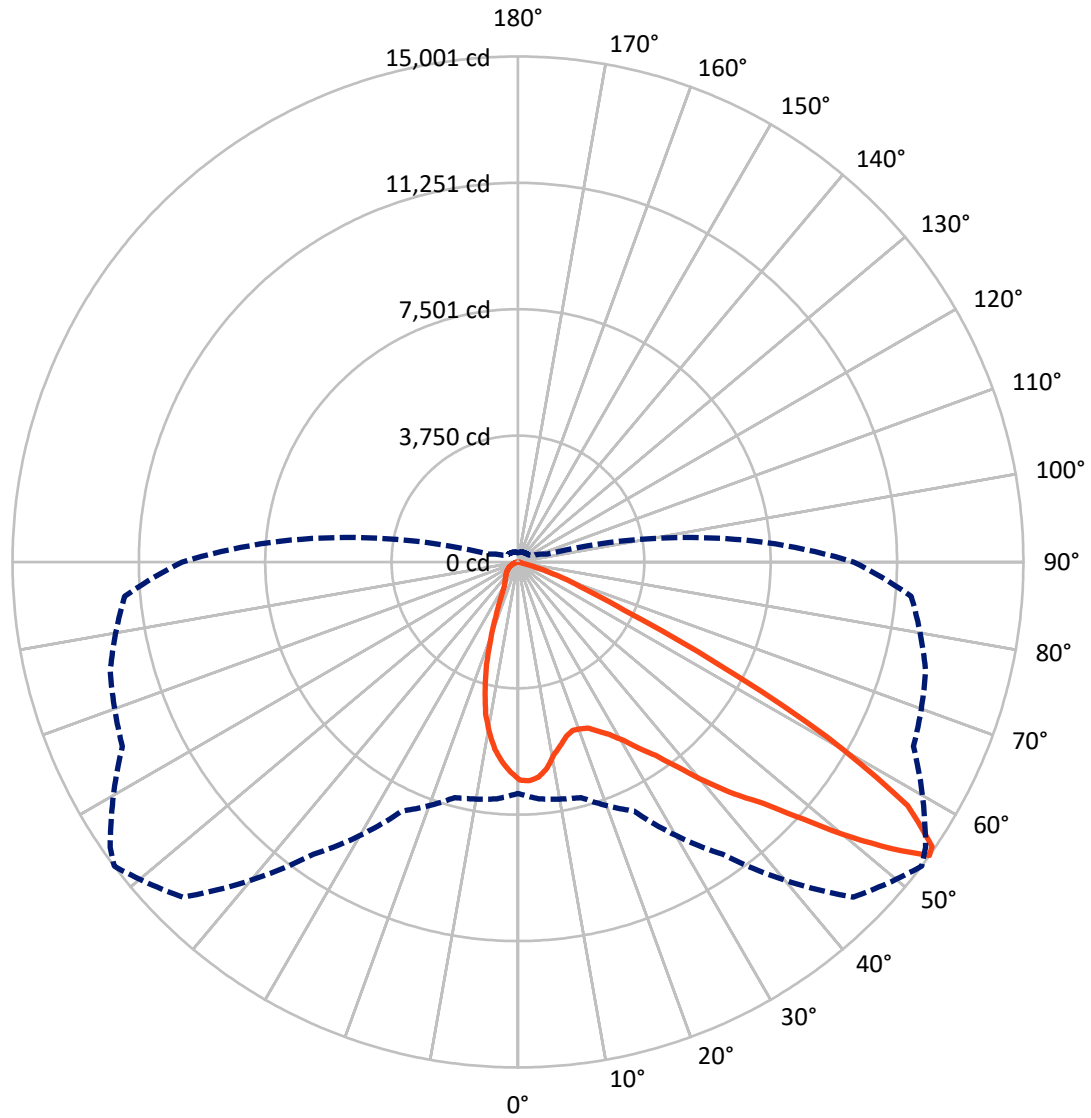
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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
<b>House Side</b>	Lumens	2982.4	0.0	2982.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	15043.6	0.0	15043.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	18026.0	0.0	18026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.5	3.1
10°-20°	1273.6	7.1
20°-30°	1810.1	10.0
30°-40°	2793.4	15.5
40°-50°	4379.8	24.3
50°-60°	5087.8	28.2
60°-70°	1922.5	10.7
70°-80°	182.8	1.0
80°-90°	20.6	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°	18026.0	100.0
0°-180°	18026.0	100.0

**Coefficient of Utilization**

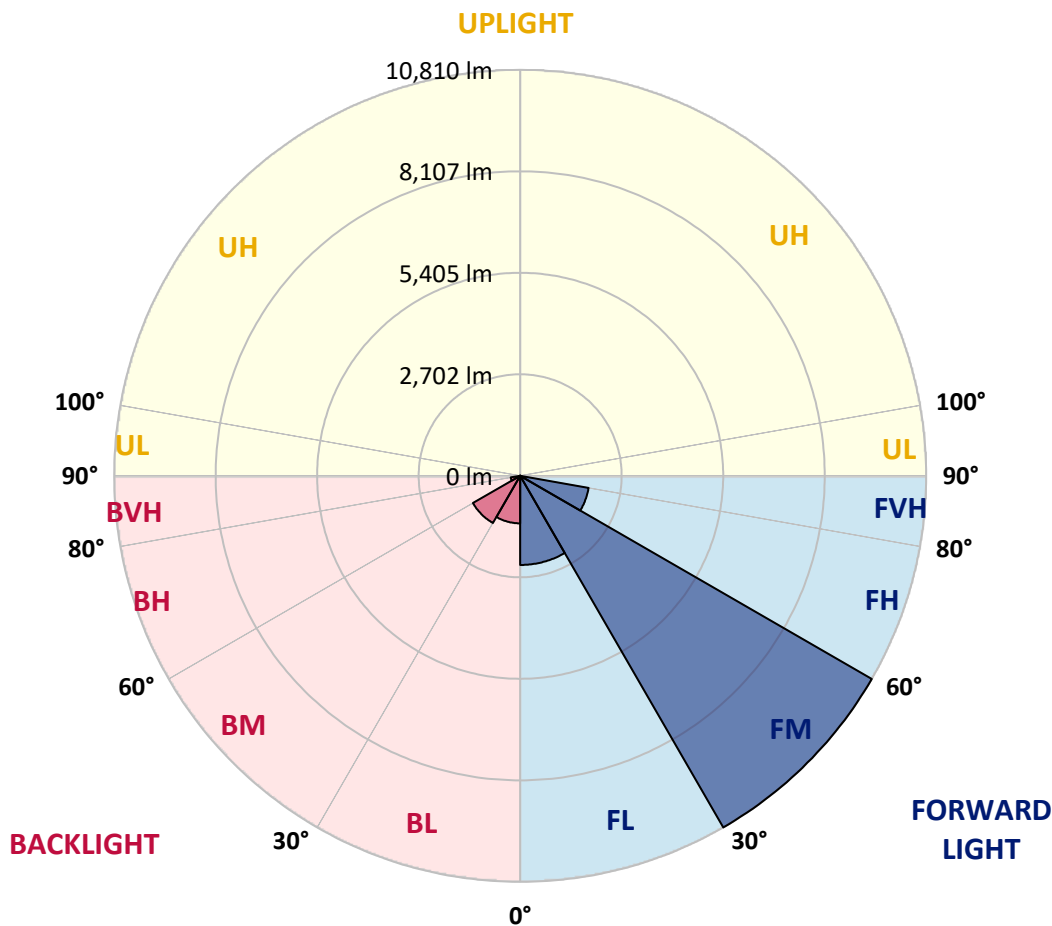


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.6	13.2			
FM (30°-60°)	10809.6	60.0			
FH (60°-80°)	1849.7	10.3			G2/5000
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1265.6	7.0	B3/2500		
BM (30°-60°)	1451.3	8.1	B2/2500		
BH (60°-80°)	255.5	1.4	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
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°	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6
2.5°	6441.1	6384.0	6441.1	6447.8	6488.1	6525.0	6501.5	6555.2	6525.0	6491.4	6481.4
5°	5920.5	5997.8	6001.1	6122.0	6095.2	6316.8	6414.2	6387.3	6551.9	6541.8	6518.3
7.5°	5453.7	5423.5	5463.8	5604.9	5782.8	6038.1	6179.1	6175.8	6410.8	6578.7	6561.9
10°	5020.5	5017.2	5101.1	5211.9	5363.1	5631.7	5826.5	5923.9	6289.9	6545.2	6582.1
12.5°	4728.4	4714.9	4805.6	4896.3	5134.7	5342.9	5591.4	5638.4	6058.2	6427.6	6488.1
15°	4536.9	4567.2	4573.9	4748.5	4899.6	5175.0	5369.8	5467.2	5950.8	6333.6	6565.3
17.5°	4503.4	4543.7	4547.0	4691.4	4852.6	5084.3	5255.6	5386.6	5860.1	6380.6	6568.7
20°	4570.5	4547.0	4567.2	4657.8	4815.7	5037.3	5285.8	5329.5	5829.9	6404.1	6605.6
22.5°	4761.9	4755.2	4704.9	4778.7	4889.6	5121.3	5356.4	5423.5	5917.2	6525.0	6635.8
25°	4973.5	5010.5	4963.4	4953.4	5030.6	5259.0	5571.3	5658.6	6209.3	6743.3	6729.9
27.5°	5369.8	5332.8	5332.8	5285.8	5265.7	5376.5	5803.0	5947.4	6535.1	7025.4	6837.3
30°	5749.3	5789.6	5759.3	5776.1	5641.8	5631.7	6132.1	6310.1	7112.7	7455.2	7065.7
32.5°	6350.4	6296.6	6347.0	6303.4	6125.4	5944.0	6578.7	6763.4	7811.2	7948.9	7408.2
35°	6850.8	6827.2	7042.2	7035.5	6746.7	6568.7	7052.2	7327.6	8298.1	8539.9	7811.2
37.5°	7562.7	7519.0	7764.2	7881.7	7623.1	7357.8	7730.6	8049.6	8751.5	9013.4	8224.3
40°	8294.8	8405.6	8734.7	8929.5	8654.1	8301.5	8560.1	8657.5	9053.7	9322.4	8506.4
42.5°	9221.7	9382.8	9718.7	9886.6	9863.1	9480.2	9403.0	9399.6	9272.0	9235.1	8714.6
45°	10111.6	10051.1	10568.3	10934.3	11229.9	11119.0	10215.7	10114.9	9617.9	9366.1	8768.3
47.5°	10501.1	10481.0	10833.6	11485.1	12492.6	12630.2	11397.8	11008.2	10202.3	9916.8	9060.5
50°	9997.4	10101.5	10450.8	11172.8	12717.6	13768.7	12848.5	12324.6	10884.0	10588.4	9752.3
52.5°	8351.9	8422.4	8754.9	9671.7	11951.9	14440.3	14238.8	13936.6	12136.6	11646.3	10957.9
54°	6867.5	7055.6	7236.9	8157.1	10588.4	14067.6	15001.1	14769.4	12952.6	12526.1	11716.8
55°	5981.0	6091.8	6222.8	7139.6	9644.8	13436.2	14913.8	14934.0	13500.0	12801.5	12227.3
57.5°	4369.0	4446.3	4311.9	4718.3	6622.4	10910.8	13641.1	14185.1	14238.8	13214.6	12539.6
60°	3338.1	3371.6	3220.5	3284.3	4117.2	7488.8	10551.5	11206.4	12845.2	11548.9	10622.0
62.5°	2589.2	2595.9	2592.5	2703.4	2837.7	4406.0	6598.9	7179.9	8855.6	8200.8	7213.4
65°	1907.5	1877.2	1931.0	2266.8	2421.3	2770.5	3475.8	3898.9	4812.3	4063.4	2904.9
67.5°	1235.8	1245.9	1299.6	1685.8	2075.4	2125.7	2139.2	2105.6	2109.0	1161.9	728.7
70°	742.2	759.0	742.2	953.7	1484.3	1524.6	1393.7	1360.1	1061.2	275.4	272.0
72.5°	439.9	416.4	372.8	409.7	617.9	738.8	664.9	661.6	416.4	161.2	161.2
75°	184.7	167.9	137.7	124.3	164.6	157.8	157.8	141.0	110.8	107.5	100.7
77.5°	36.9	36.9	26.9	30.2	40.3	47.0	57.1	57.1	67.2	67.2	63.8
80°	0.0	3.4	10.1	20.1	30.2	43.7	50.4	50.4	57.1	57.1	47.0
82.5°	0.0	3.4	10.1	20.1	26.9	40.3	50.4	50.4	57.1	60.4	50.4
85°	0.0	3.4	10.1	16.8	26.9	33.6	33.6	30.2	23.5	20.1	13.4
87.5°	0.0	0.0	3.4	6.7	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6	6474.6
2.5°	6504.9	6501.5	6420.9	6289.9	6259.7	6148.9	6135.5	6068.3	6105.2	5981.0	5967.5
5°	6451.1	6410.8	6313.4	6229.5	5984.3	5809.7	5672.0	5504.1	5406.7	5423.5	5359.7
7.5°	6528.4	6424.3	6253.0	5960.8	5661.9	5356.4	5191.8	4849.3	4725.0	4540.3	4513.4
10°	6447.8	6370.5	6105.2	5621.6	5208.6	4768.7	4382.5	4003.0	3714.2	3589.9	3563.1
12.5°	6441.1	6306.7	5863.4	5326.1	4728.4	4097.0	3536.2	3062.7	2777.2	2616.0	2579.1
15°	6336.9	6175.8	5591.4	4869.4	4043.3	3257.5	2646.3	2189.6	1971.3	1877.2	1904.1
17.5°	6347.0	6105.2	5319.4	4385.8	3368.3	2391.0	1806.7	1571.6	1514.6	1538.1	1538.1
20°	6336.9	5947.4	4990.3	3828.4	2579.1	1659.0	1326.5	1242.5	1279.5	1353.4	1336.6
22.5°	6283.2	5873.5	4688.1	3240.7	1897.4	1229.1	1064.6	1067.9	1125.0	1215.7	1235.8
25°	6323.5	5709.0	4305.2	2646.3	1383.6	980.6	923.5	947.0	1007.5	1074.6	1088.1
27.5°	6293.3	5591.4	3905.6	2055.2	1010.8	842.9	839.6	866.4	893.3	943.7	943.7
30°	6326.9	5484.0	3512.7	1528.0	832.8	772.4	759.0	779.1	806.0	816.0	812.7
32.5°	6451.1	5403.4	3059.3	1141.8	735.4	705.2	705.2	705.2	701.9	715.3	718.7
35°	6723.1	5416.8	2659.7	883.2	671.6	648.1	638.1	624.6	617.9	624.6	628.0
37.5°	7018.7	5410.1	2246.6	752.2	624.6	604.5	581.0	560.8	557.5	564.2	554.1
40°	7149.6	5473.9	1863.8	675.0	581.0	557.5	520.5	503.7	507.1	513.8	507.1
42.5°	7327.6	5494.0	1615.3	614.6	540.7	503.7	480.2	460.1	456.7	466.8	463.4
45°	7324.3	5379.9	1353.4	581.0	503.7	463.4	433.2	416.4	416.4	423.1	426.5
47.5°	7539.2	5363.1	1161.9	550.7	476.9	436.6	399.6	386.2	382.8	382.8	376.1
50°	8039.6	5598.1	1014.2	517.2	443.3	406.3	376.1	359.3	345.9	339.2	335.8
52.5°	9016.8	6330.2	900.0	476.9	406.3	376.1	349.3	335.8	319.0	302.2	298.9
54°	9963.8	7085.8	893.3	443.3	376.1	356.0	332.5	325.7	305.6	282.1	275.4
55°	10390.3	7525.8	916.8	416.4	356.0	342.5	322.4	315.7	295.5	268.7	265.3
57.5°	10742.9	7697.0	903.4	345.9	322.4	319.0	302.2	292.2	268.7	231.7	225.0
60°	8647.4	5819.8	648.1	305.6	295.5	288.8	275.4	268.7	238.4	198.1	194.8
62.5°	5463.8	3348.1	413.1	268.7	258.6	248.5	231.7	225.0	198.1	157.8	147.8
65°	2327.2	1386.9	278.7	238.4	221.6	204.9	191.4	181.3	157.8	117.5	114.2
67.5°	604.5	493.7	231.7	208.2	184.7	161.2	151.1	134.3	107.5	80.6	77.2
70°	272.0	248.5	194.8	174.6	147.8	124.3	110.8	94.0	70.5	53.7	50.4
72.5°	161.2	157.8	147.8	131.0	110.8	94.0	80.6	63.8	47.0	30.2	30.2
75°	100.7	97.4	100.7	90.7	77.2	70.5	60.4	43.7	26.9	13.4	13.4
77.5°	60.4	60.4	60.4	57.1	53.7	53.7	43.7	26.9	13.4	3.4	3.4
80°	47.0	47.0	50.4	47.0	47.0	47.0	36.9	20.1	6.7	0.0	0.0
82.5°	47.0	50.4	57.1	53.7	47.0	40.3	33.6	20.1	6.7	0.0	0.0
85°	13.4	10.1	16.8	23.5	33.6	30.2	23.5	16.8	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	3.4	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)