

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: P534237

Luminaire Tested: **GALN-SA9D-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534237
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-SA9D-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 34234 lumens
Efficiency: N/A
Efficacy: 62.0 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

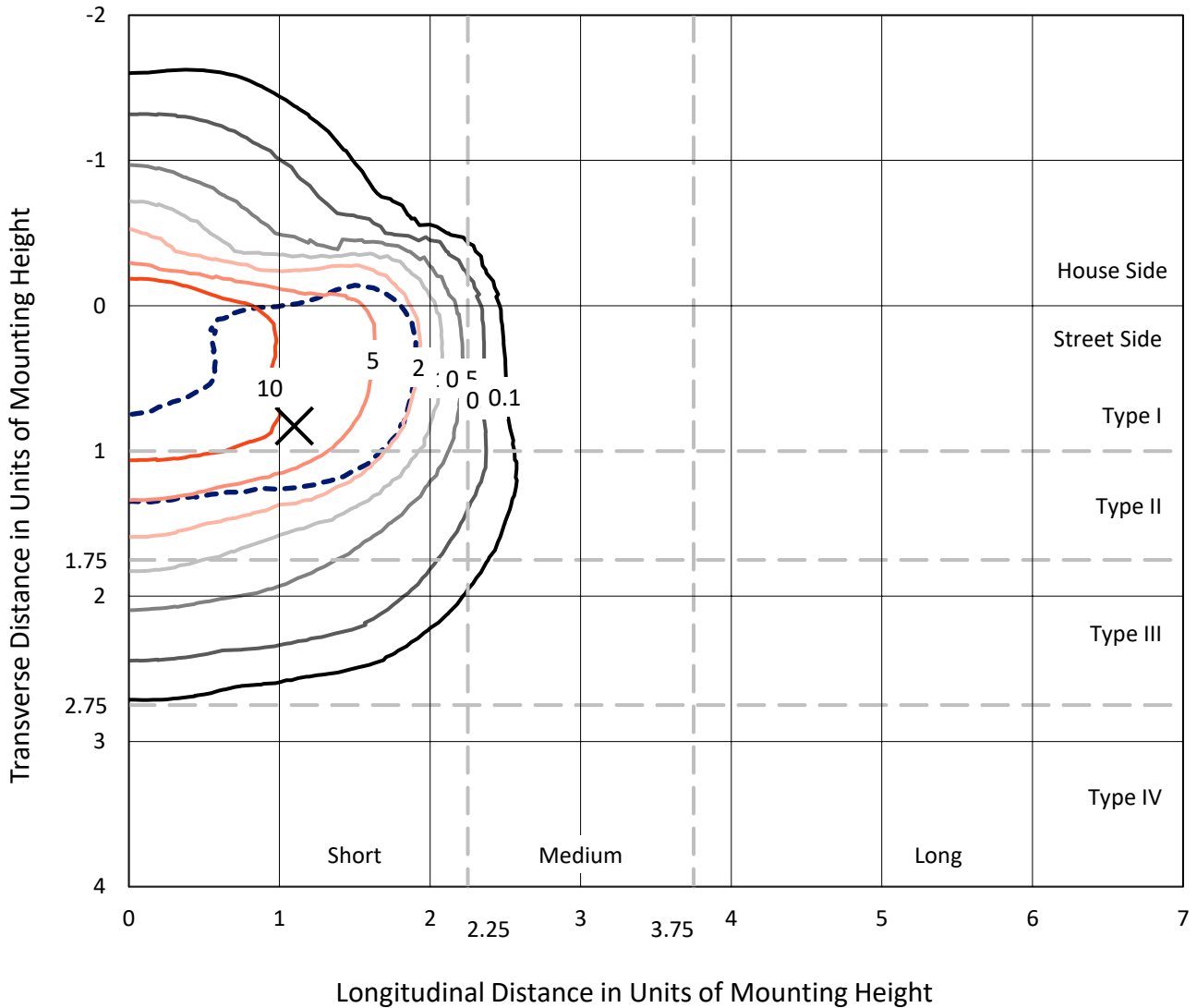
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

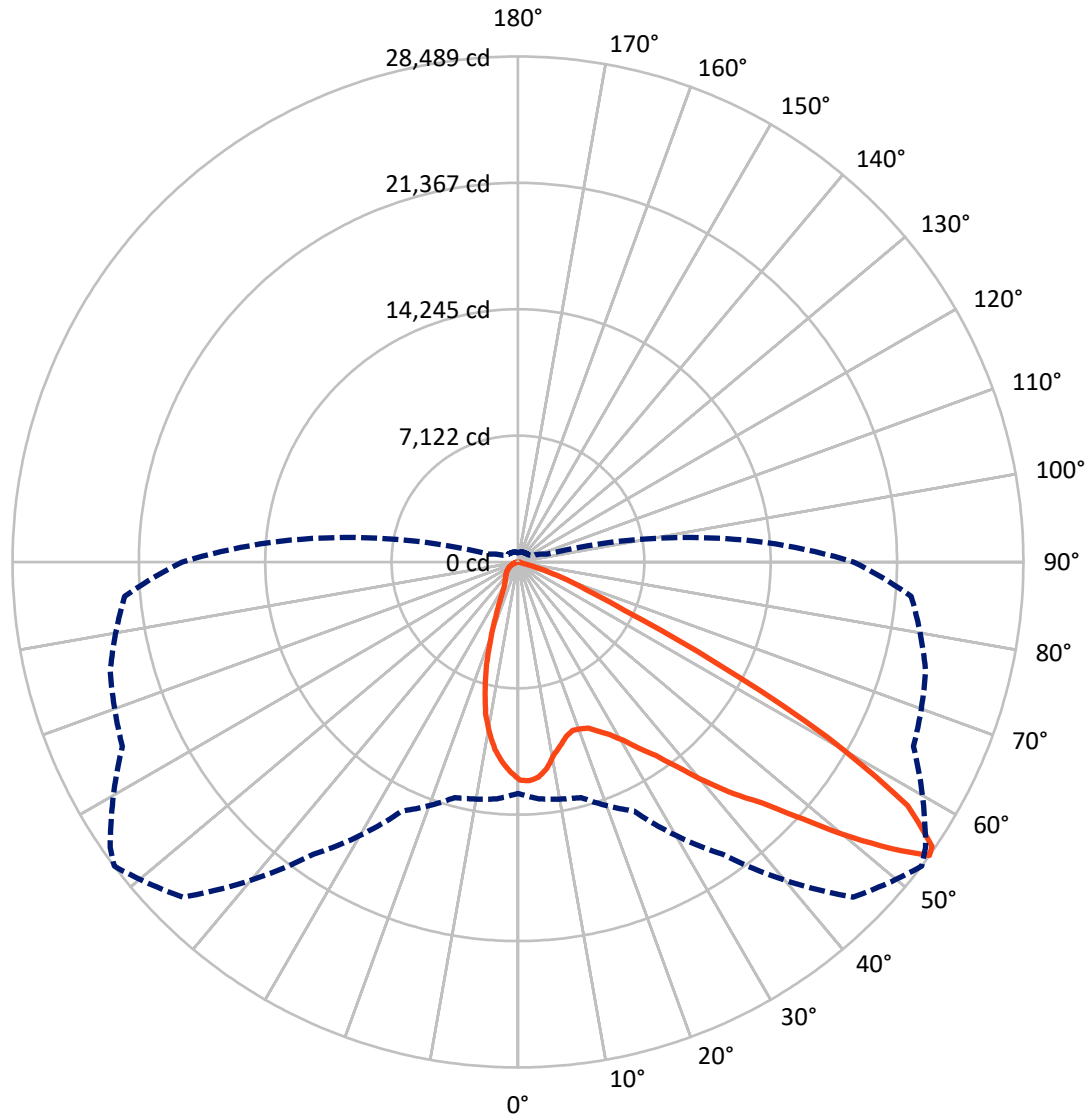
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 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	5664.1	0.0	5664.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28569.9	0.0	28569.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	34234.0	0.0	34234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1055.0	3.1
10°-20°	2418.8	7.1
20°-30°	3437.6	10.0
30°-40°	5305.1	15.5
40°-50°	8317.9	24.3
50°-60°	9662.4	28.2
60°-70°	3651.0	10.7
70°-80°	347.2	1.0
80°-90°	39.1	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°	34234.0	100.0
0°-180°	34234.0	100.0

Coefficient of Utilization



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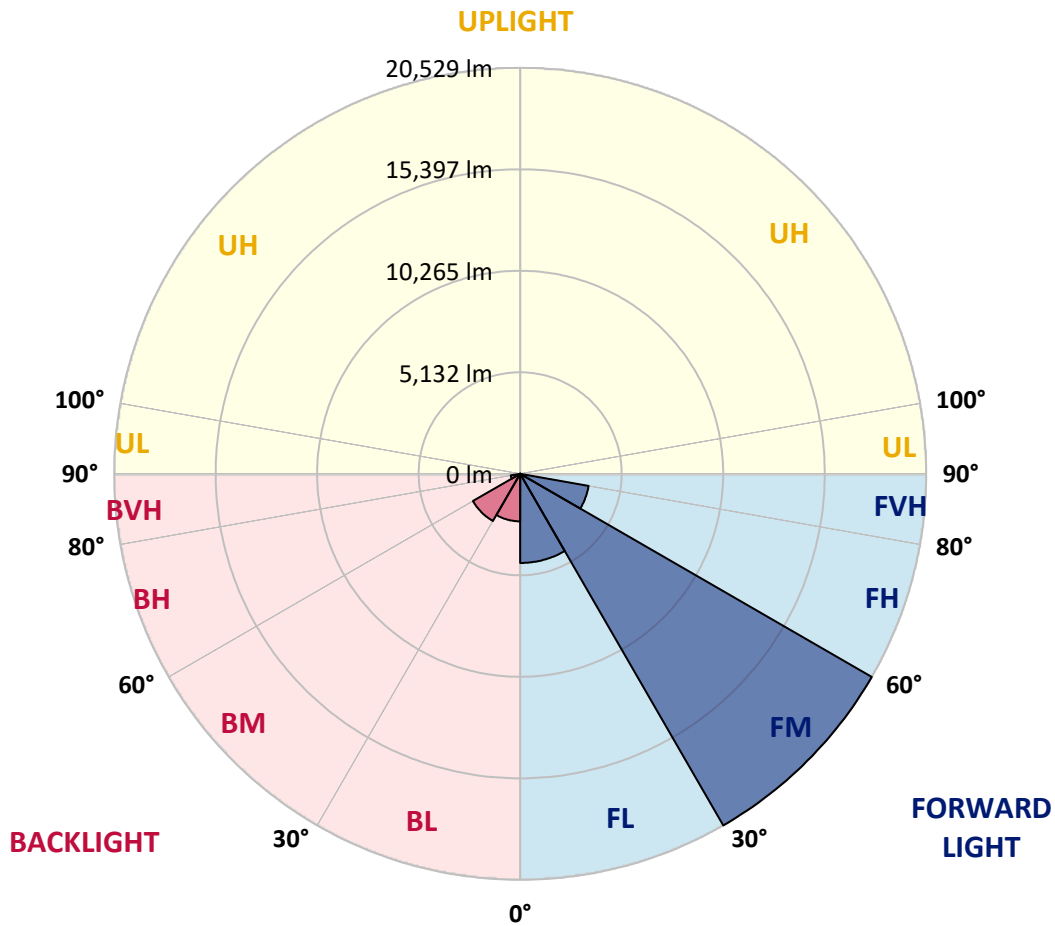
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4507.7	13.2			
FM (30°-60°)	20529.1	60.0			
FH (60°-80°)	3512.9	10.3			G2/5000
FVH (80°-90°)	20.2	0.1			G1/100
BL (0°-30°)	2403.6	7.0	B3/2500		
BM (30°-60°)	2756.3	8.1	B3/5000		
BH (60°-80°)	485.3	1.4	B1/500		G1/500
BVH (80°-90°)	18.9	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°	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3
2.5°	12232.5	12124.1	12232.5	12245.3	12321.8	12391.9	12347.3	12449.3	12391.9	12328.2	12309.0
5°	11243.9	11390.6	11397.0	11626.6	11575.6	11996.5	12181.5	12130.5	12443.0	12423.8	12379.2
7.5°	10357.4	10300.0	10376.6	10644.4	10982.5	11467.2	11735.0	11728.7	12175.1	12494.0	12462.1
10°	9534.7	9528.3	9687.8	9898.2	10185.2	10695.5	11065.4	11250.3	11945.5	12430.2	12500.4
12.5°	8979.9	8954.3	9126.5	9298.7	9751.6	10147.0	10618.9	10708.2	11505.4	12207.0	12321.8
15°	8616.3	8673.7	8686.5	9018.1	9305.1	9828.1	10198.0	10383.0	11301.3	12028.4	12468.5
17.5°	8552.5	8629.1	8635.5	8909.7	9215.8	9655.9	9981.2	10229.9	11129.1	12117.7	12474.9
20°	8680.1	8635.5	8673.7	8845.9	9145.7	9566.6	10038.6	10121.5	11071.8	12162.3	12545.0
22.5°	9043.6	9030.9	8935.2	9075.5	9286.0	9726.0	10172.5	10300.0	11237.6	12391.9	12602.4
25°	9445.4	9515.6	9426.3	9407.2	9553.8	9987.5	10580.7	10746.5	11792.4	12806.5	12781.0
27.5°	10198.0	10127.8	10127.8	10038.6	10000.3	10210.8	11020.7	11295.0	12411.1	13342.2	12985.1
30°	10918.7	10995.2	10937.8	10969.7	10714.6	10695.5	11645.7	11983.8	13508.0	14158.6	13418.8
32.5°	12060.3	11958.3	12053.9	11971.0	11633.0	11288.6	12494.0	12844.8	14834.6	15096.1	14069.3
35°	13010.6	12965.9	13374.1	13361.4	12812.9	12474.9	13393.2	13916.2	15759.4	16218.6	14834.6
37.5°	14362.7	14279.8	14745.3	14968.5	14477.5	13973.6	14681.5	15287.4	16620.4	17117.8	15619.1
40°	15753.0	15963.5	16588.5	16958.4	16435.4	15765.8	16256.8	16441.8	17194.4	17704.6	16154.8
42.5°	17513.3	17819.4	18457.2	18776.1	18731.4	18004.3	17857.7	17851.3	17608.9	17538.8	16550.2
45°	19203.4	19088.6	20070.7	20765.9	21327.2	21116.7	19401.1	19209.7	18265.8	17787.5	16652.3
47.5°	19943.2	19904.9	20574.6	21811.9	23725.2	23986.7	21646.0	20906.2	19375.6	18833.5	17207.1
50°	18986.5	19184.2	19847.5	21218.7	24152.5	26148.7	24401.2	23406.3	20670.2	20109.0	18520.9
52.5°	15861.4	15995.4	16626.8	18367.9	22698.4	27424.3	27041.6	26467.6	23049.1	22118.0	20810.6
54°	13042.5	13399.6	13744.0	15491.5	20109.0	26716.3	28489.3	28049.3	24598.9	23789.0	22251.9
55°	11358.7	11569.2	11817.9	13559.1	18316.9	25517.3	28323.5	28361.8	25638.5	24311.9	23221.3
57.5°	8297.4	8444.1	8189.0	8960.7	12576.9	20721.3	25906.4	26939.6	27041.6	25096.4	23814.5
60°	6339.5	6403.2	6116.2	6237.4	7819.1	14222.4	20038.8	21282.5	24394.8	21933.0	20172.8
62.5°	4917.2	4930.0	4923.6	5134.1	5389.2	8367.6	12532.3	13635.6	16818.1	15574.4	13699.4
65°	3622.6	3565.2	3667.2	4305.0	4598.3	5261.6	6601.0	7404.6	9139.3	7717.1	5516.7
67.5°	2347.0	2366.1	2468.2	3201.6	3941.4	4037.1	4062.6	3998.8	4005.2	2206.7	1384.0
70°	1409.5	1441.4	1409.5	1811.3	2819.0	2895.5	2646.8	2583.0	2015.4	523.0	516.6
72.5°	835.5	790.8	707.9	778.1	1173.5	1403.1	1262.8	1256.4	790.8	306.1	306.1
75°	350.8	318.9	261.5	236.0	312.5	299.8	299.8	267.9	210.5	204.1	191.3
77.5°	70.2	70.2	51.0	57.4	76.5	89.3	108.4	108.4	127.6	127.6	121.2
80°	0.0	6.4	19.1	38.3	57.4	82.9	95.7	95.7	108.4	108.4	89.3
82.5°	0.0	6.4	19.1	38.3	51.0	76.5	95.7	95.7	108.4	114.8	95.7
85°	0.0	6.4	19.1	31.9	51.0	63.8	63.8	57.4	44.6	38.3	25.5
87.5°	0.0	0.0	6.4	12.8	6.4	12.8	12.8	12.8	12.8	12.8	12.8
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°	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3	12296.3
2.5°	12353.7	12347.3	12194.2	11945.5	11888.1	11677.6	11652.1	11524.6	11594.7	11358.7	11333.2
5°	12251.6	12175.1	11990.1	11830.7	11365.1	11033.5	10772.0	10453.1	10268.2	10300.0	10178.9
7.5°	12398.3	12200.6	11875.3	11320.5	10752.9	10172.5	9860.0	9209.5	8973.5	8622.7	8571.7
10°	12245.3	12098.6	11594.7	10676.3	9891.9	9056.4	8322.9	7602.3	7053.8	6817.8	6766.8
12.5°	12232.5	11977.4	11135.5	10115.1	8979.9	7780.8	6715.8	5816.5	5274.4	4968.3	4898.1
15°	12034.8	11728.7	10618.9	9247.7	7678.8	6186.4	5025.7	4158.3	3743.7	3565.2	3616.2
17.5°	12053.9	11594.7	10102.3	8329.3	6396.9	4540.9	3431.2	2984.8	2876.4	2921.0	2921.0
20°	12034.8	11295.0	9477.3	7270.6	4898.1	3150.6	2519.2	2359.8	2429.9	2570.2	2538.3
22.5°	11932.7	11154.7	8903.3	6154.5	3603.4	2334.3	2021.7	2028.1	2136.5	2308.7	2347.0
25°	12009.3	10842.2	8176.3	5025.7	2627.6	1862.3	1753.9	1798.5	1913.3	2040.9	2066.4
27.5°	11951.9	10618.9	7417.3	3903.2	1919.7	1600.8	1594.4	1645.5	1696.5	1792.1	1792.1
30°	12015.7	10414.8	6671.1	2901.9	1581.7	1466.9	1441.4	1479.6	1530.7	1549.8	1543.4
32.5°	12251.6	10261.8	5810.1	2168.4	1396.7	1339.3	1339.3	1339.3	1332.9	1358.5	1364.8
35°	12768.2	10287.3	5051.2	1677.3	1275.5	1230.9	1211.8	1186.3	1173.5	1186.3	1192.6
37.5°	13329.5	10274.5	4266.7	1428.6	1186.3	1148.0	1103.3	1065.1	1058.7	1071.5	1052.3
40°	13578.2	10395.7	3539.6	1281.9	1103.3	1058.7	988.5	956.7	963.0	975.8	963.0
42.5°	13916.2	10434.0	3067.7	1167.1	1026.8	956.7	912.0	873.7	867.4	886.5	880.1
45°	13909.8	10217.1	2570.2	1103.3	956.7	880.1	822.7	790.8	790.8	803.6	810.0
47.5°	14318.0	10185.2	2206.7	1045.9	905.6	829.1	759.0	733.4	727.1	727.1	714.3
50°	15268.3	10631.7	1926.1	982.2	841.9	771.7	714.3	682.4	656.9	644.2	637.8
52.5°	17124.2	12022.0	1709.2	905.6	771.7	714.3	663.3	637.8	605.9	574.0	567.6
54°	18922.7	13457.0	1696.5	841.9	714.3	676.0	631.4	618.6	580.4	535.7	523.0
55°	19732.7	14292.5	1741.1	790.8	676.0	650.5	612.3	599.5	561.2	510.2	503.8
57.5°	20402.4	14617.8	1715.6	656.9	612.3	605.9	574.0	554.9	510.2	440.1	427.3
60°	16422.7	11052.6	1230.9	580.4	561.2	548.5	523.0	510.2	452.8	376.3	369.9
62.5°	10376.6	6358.6	784.5	510.2	491.1	472.0	440.1	427.3	376.3	299.8	280.6
65°	4419.8	2634.0	529.4	452.8	420.9	389.0	363.5	344.4	299.8	223.2	216.8
67.5°	1148.0	937.5	440.1	395.4	350.8	306.1	287.0	255.1	204.1	153.1	146.7
70°	516.6	472.0	369.9	331.6	280.6	236.0	210.5	178.6	133.9	102.0	95.7
72.5°	306.1	299.8	280.6	248.7	210.5	178.6	153.1	121.2	89.3	57.4	57.4
75°	191.3	185.0	191.3	172.2	146.7	133.9	114.8	82.9	51.0	25.5	25.5
77.5°	114.8	114.8	114.8	108.4	102.0	102.0	82.9	51.0	25.5	6.4	6.4
80°	89.3	89.3	95.7	89.3	89.3	89.3	70.2	38.3	12.8	0.0	0.0
82.5°	89.3	95.7	108.4	102.0	89.3	76.5	63.8	38.3	12.8	0.0	0.0
85°	25.5	19.1	31.9	44.6	63.8	57.4	44.6	31.9	12.8	0.0	0.0
87.5°	12.8	12.8	12.8	12.8	6.4	6.4	6.4	6.4	6.4	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)