

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: P534081

Luminaire Tested: **GALN-SA9C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534081
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-SA9C-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 37201 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

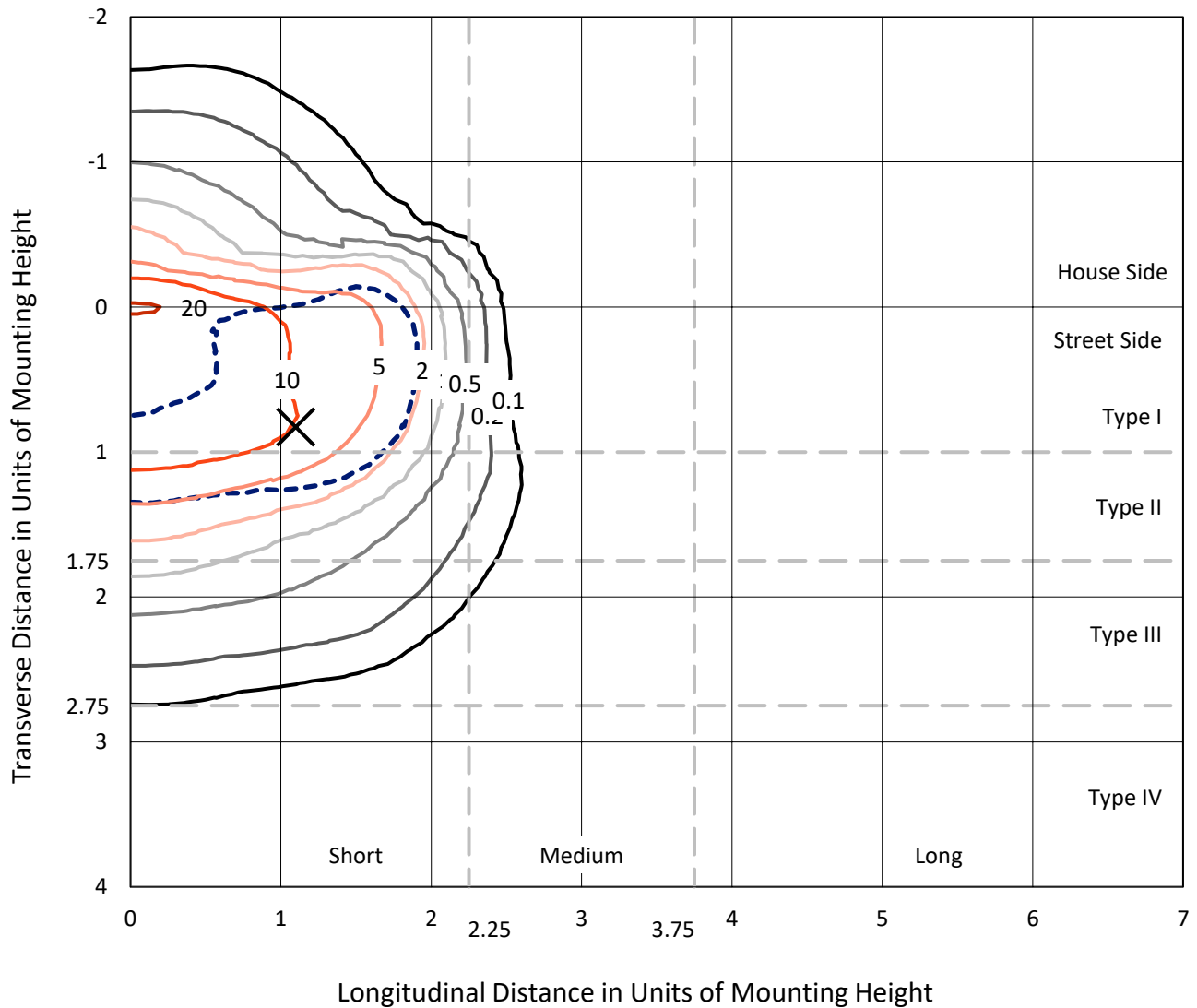
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

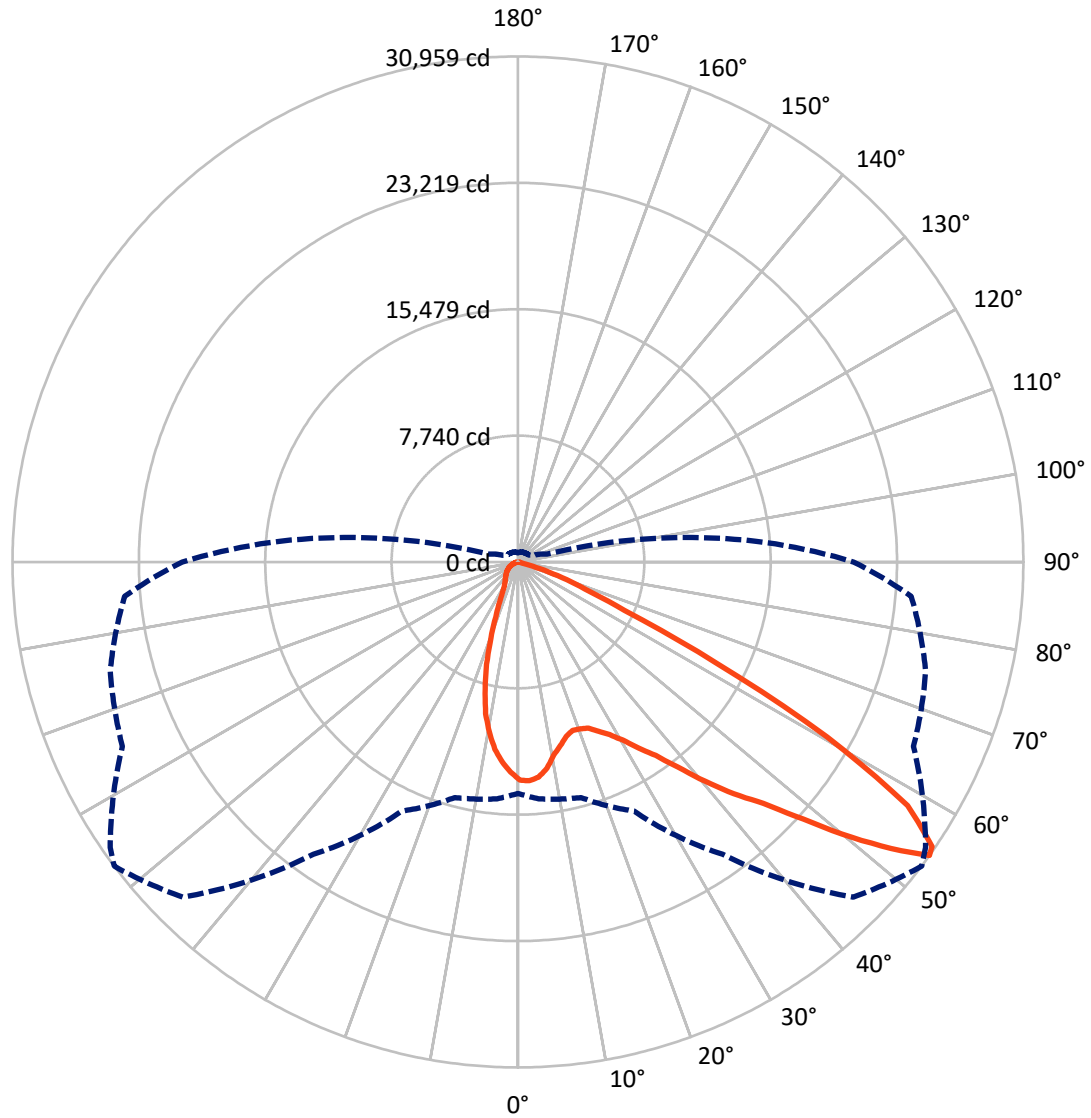
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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
House Side	Lumens	6155.0	0.0	6155.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31046.0	0.0	31046.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	37201.0	0.0	37201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1146.4	3.1
10°-20°	2628.4	7.1
20°-30°	3735.5	10.0
30°-40°	5764.9	15.5
40°-50°	9038.8	24.3
50°-60°	10499.8	28.2
60°-70°	3967.5	10.7
70°-80°	377.3	1.0
80°-90°	42.5	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°	37201.0	100.0
0°-180°	37201.0	100.0

Coefficient of Utilization



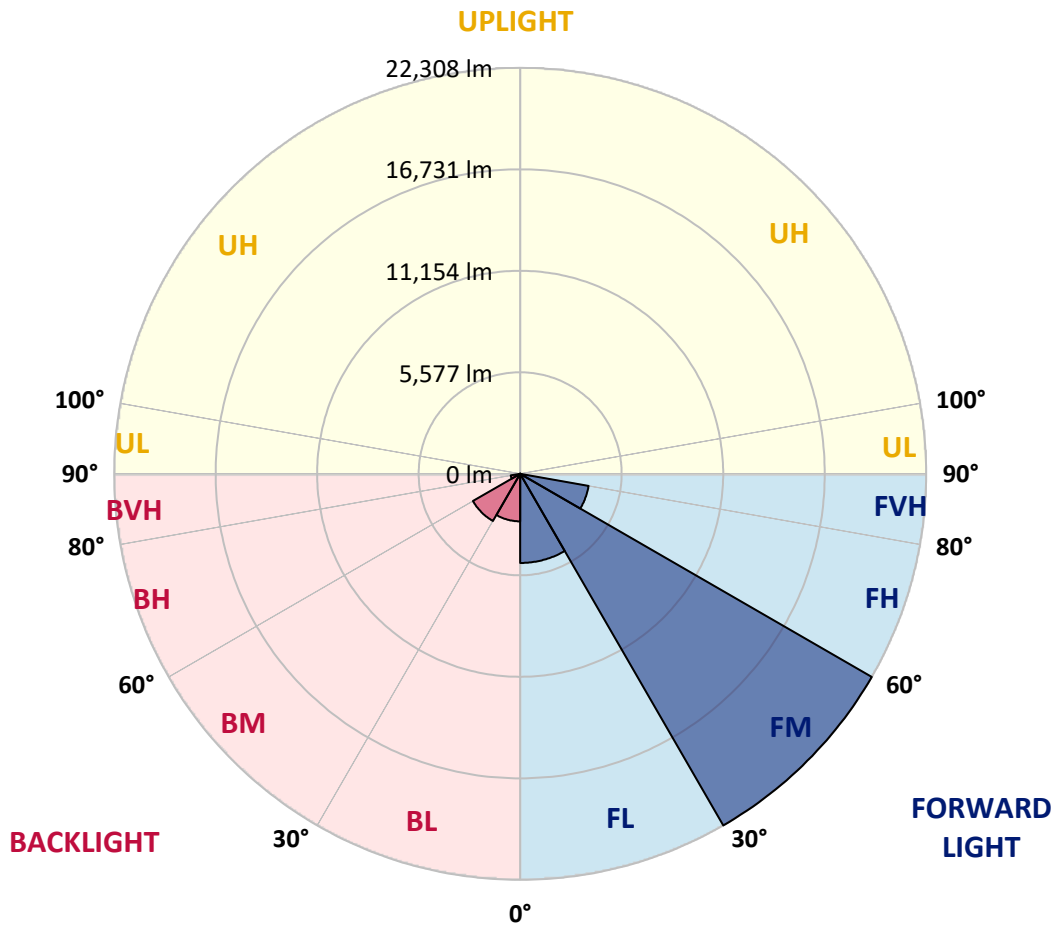
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4898.4	13.2			
FM (30°-60°)	22308.3	60.0			
FH (60°-80°)	3817.4	10.3			G2/5000
FVH (80°-90°)	21.9	0.1			G1/100
BL (0°-30°)	2611.9	7.0	B4/5000		
BM (30°-60°)	2995.2	8.1	B3/5000		
BH (60°-80°)	527.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	20.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0
2.5°	13292.7	13174.8	13292.7	13306.5	13389.7	13465.9	13417.4	13528.3	13465.9	13396.6	13375.8
5°	12218.4	12377.8	12384.8	12634.3	12578.8	13036.2	13237.2	13181.8	13521.4	13500.6	13452.1
7.5°	11255.1	11192.7	11275.9	11567.0	11934.3	12461.0	12752.1	12745.2	13230.3	13576.8	13542.2
10°	10361.1	10354.1	10527.4	10756.1	11068.0	11622.4	12024.4	12225.4	12980.8	13507.5	13583.7
12.5°	9758.1	9730.4	9917.5	10104.6	10596.7	11026.4	11539.3	11636.3	12502.6	13264.9	13389.7
15°	9363.1	9425.5	9439.3	9799.7	10111.6	10679.9	11081.8	11282.8	12280.8	13070.9	13549.1
17.5°	9293.8	9376.9	9383.9	9681.9	10014.5	10492.8	10846.2	11116.5	12093.7	13167.9	13556.0
20°	9432.4	9383.9	9425.5	9612.6	9938.3	10395.7	10908.6	10998.7	12031.3	13216.4	13632.3
22.5°	9827.4	9813.6	9709.6	9862.1	10090.8	10569.0	11054.1	11192.7	12211.5	13465.9	13694.6
25°	10264.0	10340.3	10243.3	10222.5	10381.9	10853.1	11497.7	11677.9	12814.5	13916.4	13888.7
27.5°	11081.8	11005.6	11005.6	10908.6	10867.0	11095.7	11975.9	12273.9	13486.7	14498.6	14110.5
30°	11865.0	11948.2	11885.8	11920.4	11643.2	11622.4	12655.1	13022.4	14678.8	15385.7	14581.7
32.5°	13105.5	12994.7	13098.6	13008.5	12641.2	12267.0	13576.8	13958.0	16120.3	16404.5	15288.6
35°	14138.2	14089.7	14533.2	14519.4	13923.3	13556.0	14554.0	15122.3	17125.2	17624.2	16120.3
37.5°	15607.4	15517.4	16023.3	16265.8	15732.2	15184.7	15954.0	16612.4	18060.8	18601.4	16972.8
40°	17118.3	17347.0	18026.2	18428.2	17859.9	17132.2	17665.8	17866.8	18684.6	19239.0	17554.9
42.5°	19031.1	19363.8	20056.8	20403.3	20354.8	19564.8	19405.4	19398.4	19135.1	19058.8	17984.6
45°	20867.7	20742.9	21810.2	22565.7	23175.5	22946.8	21082.5	20874.6	19848.9	19329.1	18095.5
47.5°	21671.6	21630.0	22357.7	23702.3	25781.4	26065.5	23522.1	22718.1	21054.8	20465.7	18698.4
50°	20632.0	20846.9	21567.7	23057.7	26245.7	28415.0	26516.0	25434.9	22461.7	21851.8	20126.1
52.5°	17236.1	17381.7	18067.8	19959.8	24665.6	29801.1	29385.2	28761.5	25046.8	24034.9	22614.2
54°	14172.8	14560.9	14935.2	16834.1	21851.8	29031.8	30958.5	30480.3	26730.9	25850.7	24180.5
55°	12343.2	12571.9	12842.2	14734.2	19904.3	27728.9	30778.3	30819.9	27860.5	26419.0	25233.9
57.5°	9016.6	9176.0	8898.7	9737.3	13666.9	22517.1	28151.6	29274.4	29385.2	27271.5	25878.4
60°	6888.9	6958.2	6646.3	6778.0	8496.8	15455.0	21775.6	23127.0	26509.1	23833.9	21921.1
62.5°	5343.4	5357.3	5350.3	5579.0	5856.3	9092.8	13618.4	14817.4	18275.7	16924.2	14886.7
65°	3936.5	3874.1	3985.0	4678.1	4996.9	5717.6	7173.1	8046.3	9931.4	8385.9	5994.9
67.5°	2550.4	2571.2	2682.1	3479.1	4283.0	4387.0	4414.7	4345.4	4352.3	2397.9	1503.9
70°	1531.6	1566.3	1531.6	1968.3	3063.3	3146.4	2876.2	2806.8	2190.0	568.3	561.4
72.5°	907.9	859.4	769.3	845.5	1275.2	1524.7	1372.2	1365.3	859.4	332.7	332.7
75°	381.2	346.5	284.1	256.4	339.6	325.7	325.7	291.1	228.7	221.8	207.9
77.5°	76.2	76.2	55.4	62.4	83.2	97.0	117.8	117.8	138.6	138.6	131.7
80°	0.0	6.9	20.8	41.6	62.4	90.1	104.0	104.0	117.8	117.8	97.0
82.5°	0.0	6.9	20.8	41.6	55.4	83.2	104.0	104.0	117.8	124.7	104.0
85°	0.0	6.9	20.8	34.7	55.4	69.3	69.3	62.4	48.5	41.6	27.7
87.5°	0.0	0.0	6.9	13.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0	13362.0
2.5°	13424.3	13417.4	13251.1	12980.8	12918.4	12689.7	12662.0	12523.4	12599.6	12343.2	12315.5
5°	13313.5	13230.3	13029.3	12856.0	12350.1	11989.7	11705.6	11359.1	11158.1	11192.7	11061.1
7.5°	13472.9	13258.0	12904.6	12301.6	11684.8	11054.1	10714.5	10007.6	9751.2	9370.0	9314.6
10°	13306.5	13147.1	12599.6	11601.6	10749.2	9841.3	9044.3	8261.1	7665.1	7408.7	7353.2
12.5°	13292.7	13015.4	12100.6	10991.7	9758.1	8455.2	7297.8	6320.6	5731.5	5398.8	5322.6
15°	13077.8	12745.2	11539.3	10049.2	8344.3	6722.6	5461.2	4518.7	4068.2	3874.1	3929.6
17.5°	13098.6	12599.6	10977.9	9051.2	6951.3	4934.5	3728.6	3243.5	3125.6	3174.2	3174.2
20°	13077.8	12273.9	10298.7	7900.8	5322.6	3423.7	2737.5	2564.3	2640.5	2793.0	2758.3
22.5°	12966.9	12121.4	9675.0	6687.9	3915.7	2536.6	2197.0	2203.9	2321.7	2508.8	2550.4
25°	13050.1	11781.8	8884.9	5461.2	2855.4	2023.7	1905.9	1954.4	2079.1	2217.8	2245.5
27.5°	12987.7	11539.3	8060.2	4241.5	2086.1	1739.6	1732.6	1788.1	1843.5	1947.5	1947.5
30°	13057.0	11317.5	7249.3	3153.4	1718.8	1594.0	1566.3	1607.9	1663.3	1684.1	1677.2
32.5°	13313.5	11151.1	6313.7	2356.4	1517.8	1455.4	1455.4	1455.4	1448.5	1476.2	1483.1
35°	13874.8	11178.9	5488.9	1822.7	1386.1	1337.6	1316.8	1289.1	1275.2	1289.1	1296.0
37.5°	14484.7	11165.0	4636.5	1552.4	1289.1	1247.5	1199.0	1157.4	1150.5	1164.3	1143.5
40°	14755.0	11296.7	3846.4	1393.0	1199.0	1150.5	1074.2	1039.6	1046.5	1060.4	1046.5
42.5°	15122.3	11338.3	3333.6	1268.3	1115.8	1039.6	991.1	949.5	942.5	963.3	956.4
45°	15115.4	11102.6	2793.0	1199.0	1039.6	956.4	894.0	859.4	859.4	873.2	880.2
47.5°	15558.9	11068.0	2397.9	1136.6	984.1	901.0	824.7	797.0	790.1	790.1	776.2
50°	16591.6	11553.1	2093.0	1067.3	914.8	838.6	776.2	741.6	713.8	700.0	693.0
52.5°	18608.3	13064.0	1857.4	984.1	838.6	776.2	720.8	693.0	658.4	623.7	616.8
54°	20562.7	14623.3	1843.5	914.8	776.2	734.6	686.1	672.3	630.7	582.2	568.3
55°	21442.9	15531.2	1892.0	859.4	734.6	706.9	665.3	651.5	609.9	554.4	547.5
57.5°	22170.6	15884.7	1864.3	713.8	665.3	658.4	623.7	603.0	554.4	478.2	464.3
60°	17846.0	12010.5	1337.6	630.7	609.9	596.0	568.3	554.4	492.1	408.9	402.0
62.5°	11275.9	6909.7	852.4	554.4	533.6	512.9	478.2	464.3	408.9	325.7	304.9
65°	4802.8	2862.3	575.2	492.1	457.4	422.8	395.0	374.2	325.7	242.6	235.6
67.5°	1247.5	1018.8	478.2	429.7	381.2	332.7	311.9	277.2	221.8	166.3	159.4
70°	561.4	512.9	402.0	360.4	304.9	256.4	228.7	194.1	145.5	110.9	104.0
72.5°	332.7	325.7	304.9	270.3	228.7	194.1	166.3	131.7	97.0	62.4	62.4
75°	207.9	201.0	207.9	187.1	159.4	145.5	124.7	90.1	55.4	27.7	27.7
77.5°	124.7	124.7	124.7	117.8	110.9	110.9	90.1	55.4	27.7	6.9	6.9
80°	97.0	97.0	104.0	97.0	97.0	97.0	76.2	41.6	13.9	0.0	0.0
82.5°	97.0	104.0	117.8	110.9	97.0	83.2	69.3	41.6	13.9	0.0	0.0
85°	27.7	20.8	34.7	48.5	69.3	62.4	48.5	34.7	13.9	0.0	0.0
87.5°	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	6.9	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)