

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: P457923

Luminaire Tested: **GALN-SA9B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41300 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

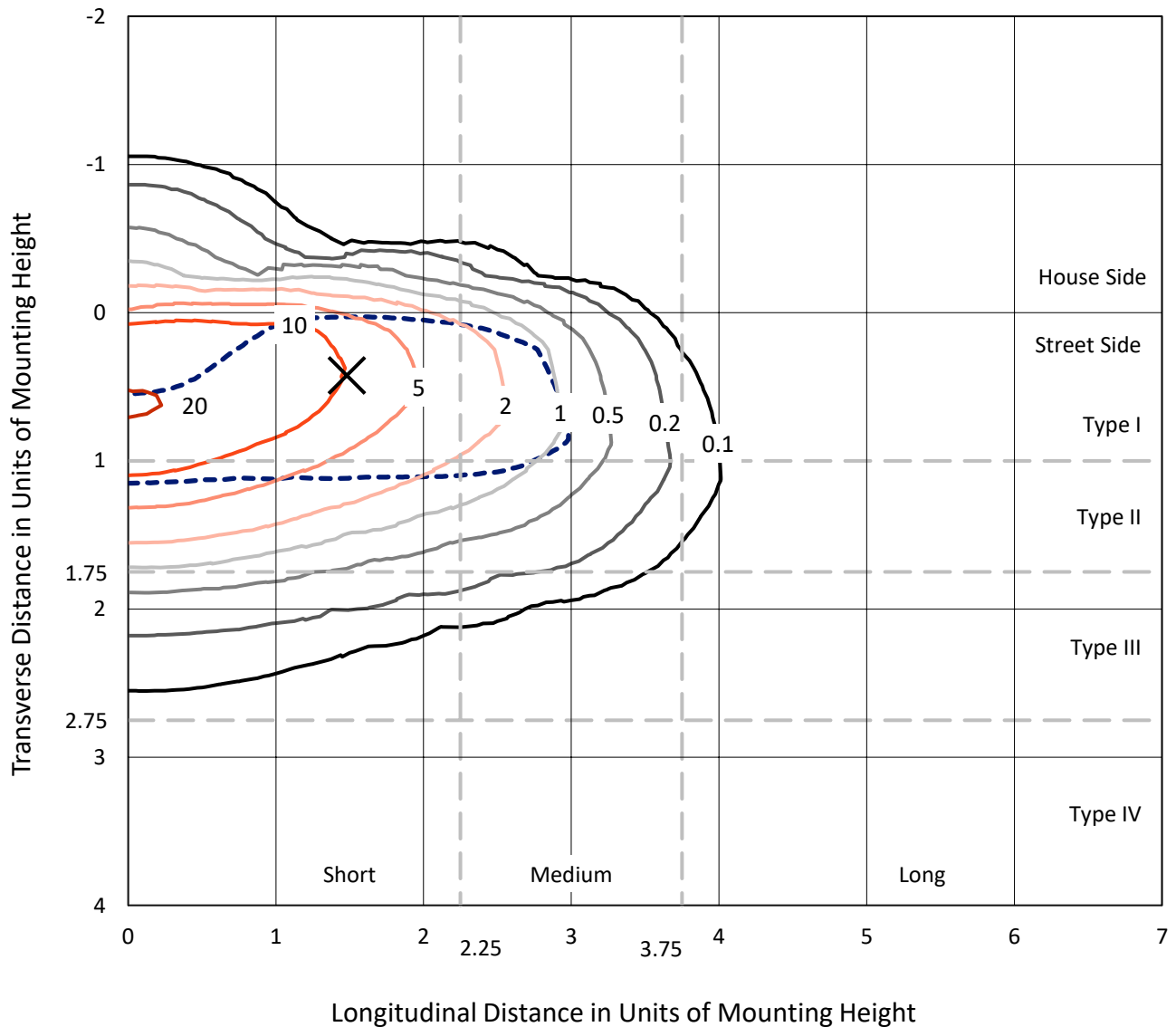
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

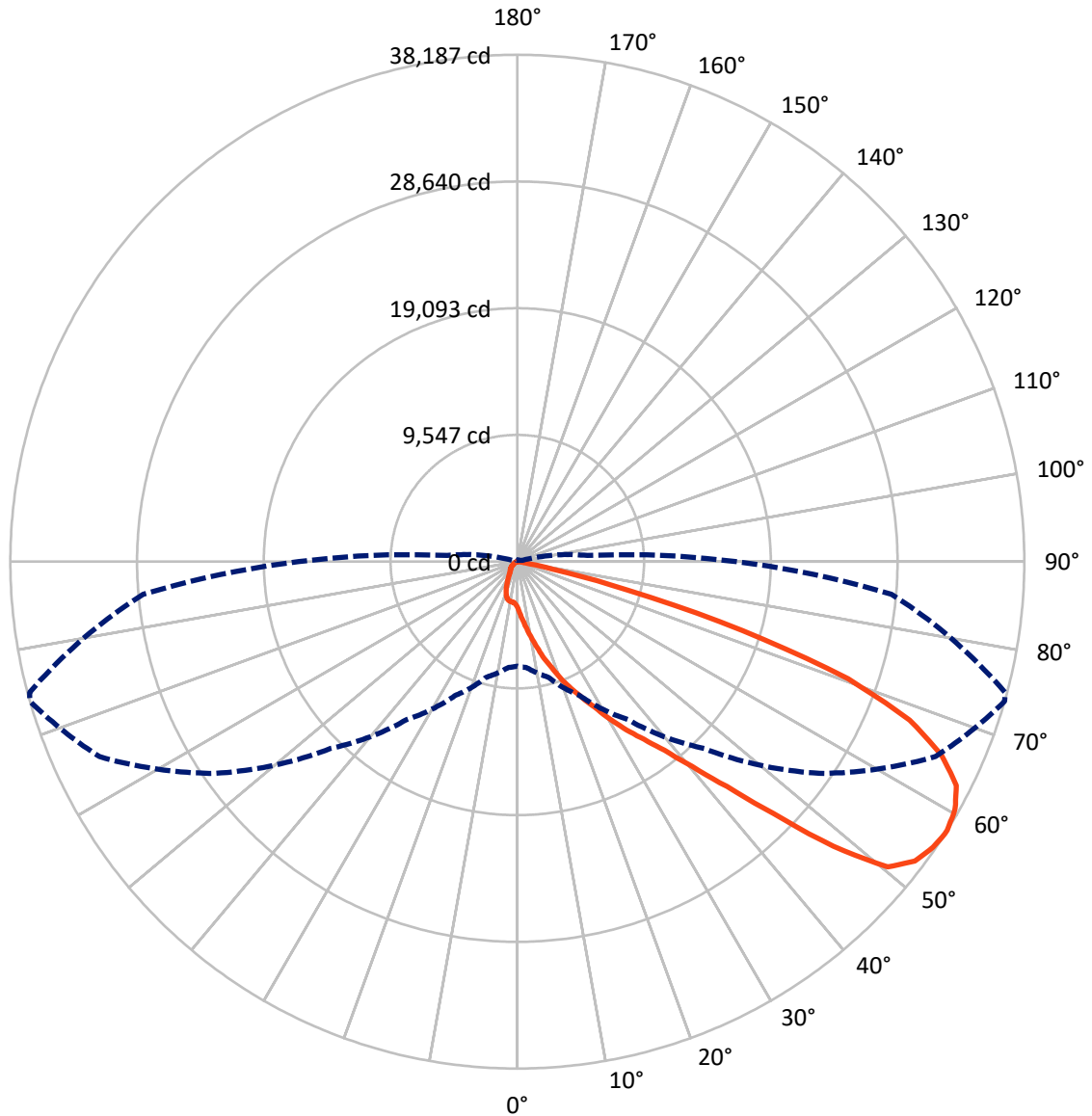
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2382.1	0.0	2382.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	38918.0	0.0	38918.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	41300.0	0.0	41300.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	1.0
10°-20°	1645.6	4.0
20°-30°	3521.1	8.5
30°-40°	6471.8	15.7
40°-50°	9921.3	24.0
50°-60°	10495.4	25.4
60°-70°	6853.8	16.6
70°-80°	1872.7	4.5
80°-90°	100.8	0.2
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°	41300.0	100.0
0°-180°	41300.0	100.0

Coefficient of Utilization



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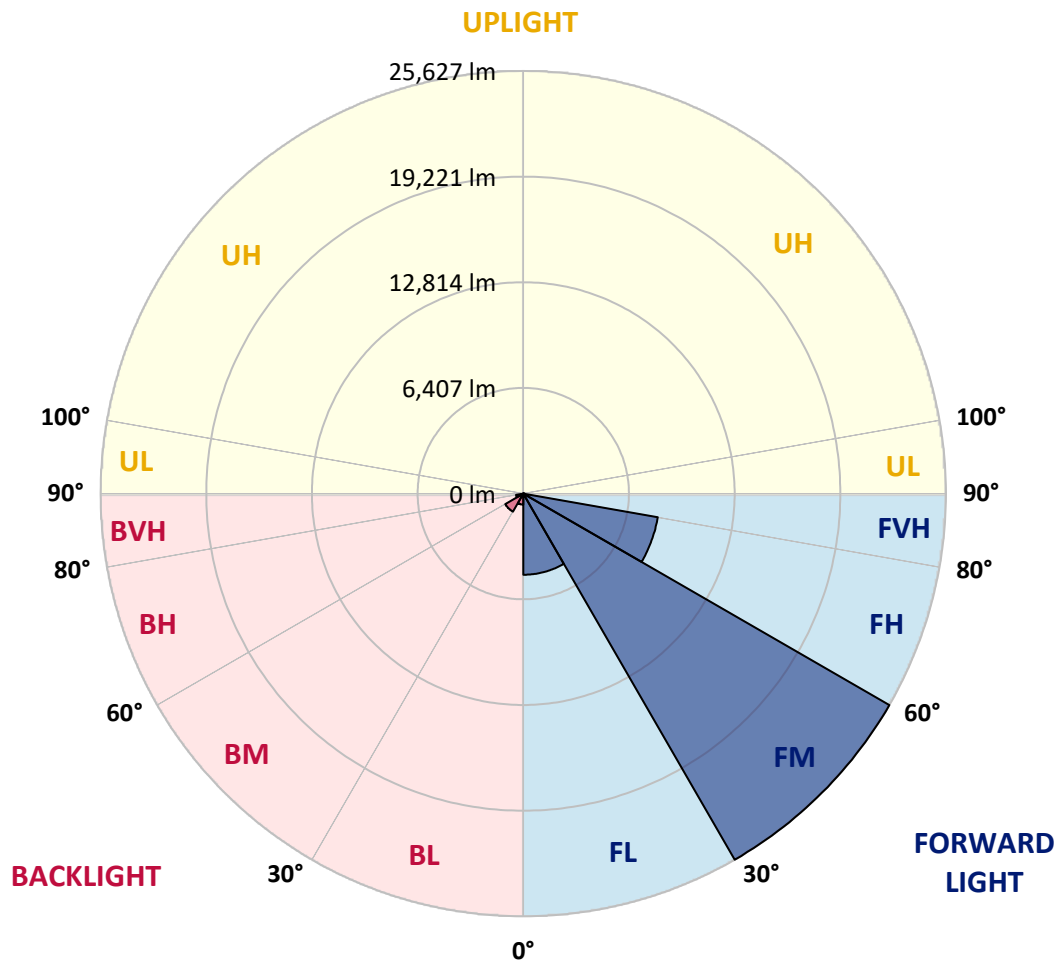
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4918.8	11.9			
FM	(30°-60°)	25627.4	62.1			
FH	(60°-80°)	8279.3	20.0			G4/12000
FVH	(80°-90°)	92.5	0.2			G1/100
BL	(0°-30°)	665.4	1.6	B2/1000		
BM	(30°-60°)	1261.1	3.1	B2/2500		
BH	(60°-80°)	447.2	1.1	B1/500		G1/500
BVH	(80°-90°)	8.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8
2.5°	5061.3	5015.7	4924.5	4893.1	4759.1	4550.9	4368.4	4123.2	3929.3	3909.4	3675.5
5°	6777.9	6675.3	6632.5	6427.2	6105.0	5802.7	5283.8	4890.3	4436.9	4402.7	3932.2
7.5°	8431.8	8289.2	8246.4	8052.5	7676.1	7199.9	6527.0	5811.3	5092.7	5027.1	4277.2
10°	9629.4	9649.3	9572.4	9444.0	9138.9	8654.2	7824.4	6846.4	5822.7	5740.0	4665.0
12.5°	10487.7	10484.8	10499.1	10496.2	10333.7	9965.9	9093.3	7967.0	6626.8	6464.3	5109.8
15°	11046.6	11055.1	11097.9	11246.2	11263.3	11035.2	10308.0	9039.1	7559.2	7356.8	5591.7
17.5°	11611.1	11671.0	11739.5	11879.2	12004.6	11913.4	11400.1	10156.9	8403.3	8252.1	6107.8
20°	12543.6	12626.3	12586.3	12671.9	12737.5	12746.0	12349.7	11189.1	9426.9	9173.1	6698.1
22.5°	14034.9	14032.0	13929.4	13775.4	13647.1	13641.4	13282.1	12249.9	10356.5	10111.3	7291.2
25°	15919.7	15928.3	15728.7	15289.5	14970.2	14579.5	14166.1	13179.4	11351.7	11049.4	7915.7
27.5°	18081.1	18026.9	17724.7	17120.2	16487.1	15819.9	15223.9	14260.2	12406.7	12155.8	8631.4
30°	20023.0	20003.0	19649.4	18910.9	18078.3	17408.2	16544.2	15614.6	13772.6	13464.6	9432.6
32.5°	21830.8	21859.3	21368.8	20604.7	19800.5	19027.8	18115.3	16909.2	15112.7	14676.5	10305.2
35°	23242.3	23270.8	22763.2	22127.3	21300.4	20658.8	19789.1	18289.3	16435.8	16068.0	11308.9
37.5°	23995.0	24032.1	23738.4	23259.4	22743.2	22421.0	21611.2	20065.7	18044.0	17821.6	12495.1
40°	24137.6	24180.4	24052.1	23923.8	23895.2	24126.2	23889.5	22158.7	20273.9	19926.0	14263.0
42.5°	23709.9	23766.9	23823.9	24109.1	24690.8	25537.7	26361.7	24998.8	23145.3	22677.7	16424.4
45°	22586.4	22580.7	22806.0	23544.5	24847.6	26655.4	28945.2	28554.5	27057.5	26501.5	19478.3
47.5°	20664.5	20636.0	21123.6	22175.8	24206.0	26860.8	31052.4	32871.6	32050.4	31537.1	22760.4
50°	17736.1	17875.8	18642.8	20111.3	22612.1	26239.1	31702.5	35703.1	36148.0	35603.3	25412.2
52.5°	14305.8	14300.1	15503.4	17496.6	20251.1	24870.4	31249.2	36216.4	37479.6	37063.3	26718.2
55°	10587.5	10661.6	11913.4	13923.7	17185.8	22372.6	29769.2	35688.9	37987.2	37693.5	27579.3
57°	7875.7	8006.9	9010.6	11137.8	14516.8	19900.3	27798.9	34745.0	38186.8	38027.1	28295.0
57.5°	7351.1	7356.8	8334.8	10268.1	13735.5	18950.8	27234.3	34351.5	38181.1	38092.7	28411.9
60°	4525.3	4667.8	5343.6	6940.5	10054.2	14790.5	23450.4	32090.3	37884.5	38012.8	28911.0
62.5°	2708.9	2768.8	3207.9	4183.1	6481.4	10795.6	19190.3	29196.1	37111.8	37502.4	28876.7
65°	1742.2	1756.5	1956.1	2532.1	4051.9	7296.9	14787.7	25372.3	35112.9	35831.4	27747.6
67.5°	1345.9	1368.7	1448.5	1662.4	2349.6	4545.2	10459.2	21291.9	31879.3	32806.0	25010.2
70°	1194.8	1206.2	1234.7	1303.1	1554.0	2566.3	6507.0	16632.6	26435.9	26698.2	19572.4
72.5°	975.2	1006.6	1095.0	1117.8	1231.8	1602.5	3621.4	11163.5	17761.7	17827.3	10949.6
75°	755.6	761.3	892.5	958.1	1037.9	1103.5	1616.8	5628.8	8531.6	8075.3	4220.2
77.5°	564.6	590.3	650.1	732.8	846.9	789.9	724.3	2121.5	2649.0	2600.5	1226.1
80°	362.1	376.4	453.4	550.3	658.7	516.1	407.8	621.6	581.7	598.8	293.7
82.5°	182.5	185.3	290.8	447.7	419.2	259.5	256.6	253.8	216.7	213.9	136.9
85°	20.0	42.8	188.2	256.6	188.2	85.5	119.8	116.9	114.1	116.9	79.8
87.5°	2.9	2.9	31.4	37.1	25.7	28.5	34.2	37.1	45.6	42.8	34.2
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°	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8	3458.8
2.5°	3561.5	3447.4	3236.4	3034.0	2882.8	2785.9	2660.4	2614.8	2549.2	2540.7	2509.3
5°	3715.5	3498.7	3130.9	2840.1	2606.2	2429.4	2275.5	2147.1	2044.5	2021.7	2033.1
7.5°	3935.0	3612.8	3099.5	2703.2	2378.1	2075.9	1830.6	1679.5	1571.2	1531.2	1536.9
10°	4183.1	3763.9	3093.8	2557.8	2061.6	1690.9	1422.9	1288.9	1226.1	1203.3	1177.7
12.5°	4476.8	3937.9	3079.6	2332.5	1713.7	1348.7	1157.7	1077.9	1018.0	1000.9	1000.9
15°	4807.6	4123.2	3011.1	2053.1	1391.5	1114.9	986.6	923.9	903.9	886.8	886.8
17.5°	5152.6	4305.7	2868.6	1708.0	1154.8	955.2	875.4	838.3	809.8	789.9	789.9
20°	5546.1	4485.3	2640.5	1402.9	975.2	852.6	789.9	747.1	724.3	707.2	701.5
22.5°	5919.6	4630.8	2349.6	1152.0	849.7	767.0	710.0	664.4	641.6	633.0	633.0
25°	6307.4	4719.2	1998.9	952.4	775.6	695.8	633.0	596.0	576.0	570.3	567.4
27.5°	6683.8	4770.5	1690.9	832.6	707.2	630.2	570.3	541.8	521.8	516.1	519.0
30°	7140.1	4779.0	1391.5	747.1	647.3	567.4	513.3	487.6	476.2	470.5	467.6
32.5°	7602.0	4767.6	1169.1	695.8	590.3	513.3	467.6	447.7	439.1	430.6	430.6
35°	8121.0	4707.8	995.2	644.4	536.1	467.6	427.7	410.6	399.2	390.7	387.8
37.5°	8765.4	4676.4	895.4	587.4	487.6	424.9	387.8	370.7	362.1	350.7	347.9
40°	9780.5	4816.1	864.0	536.1	439.1	384.9	350.7	330.8	319.4	308.0	305.1
42.5°	11046.6	5061.3	812.7	484.7	396.4	347.9	313.7	290.8	270.9	256.6	250.9
45°	12686.1	5383.6	732.8	430.6	359.3	308.0	276.6	248.1	222.4	211.0	208.2
47.5°	14405.6	5694.4	661.5	387.8	319.4	273.7	239.5	208.2	185.3	176.8	173.9
50°	15460.6	5757.1	615.9	339.3	279.4	236.7	202.5	173.9	159.7	151.1	151.1
52.5°	15942.5	5657.3	553.2	296.6	242.4	208.2	173.9	151.1	142.6	136.9	134.0
55°	16279.0	5503.3	470.5	256.6	208.2	176.8	154.0	136.9	125.5	119.8	116.9
57°	16475.7	5295.2	407.8	225.3	179.6	154.0	136.9	122.6	111.2	99.8	99.8
57.5°	16484.3	5215.3	390.7	222.4	171.1	148.3	134.0	119.8	105.5	94.1	91.2
60°	16230.5	4667.8	313.7	188.2	136.9	125.5	111.2	94.1	74.1	62.7	59.9
62.5°	15415.0	3972.1	259.5	159.7	111.2	96.9	79.8	71.3	51.3	37.1	37.1
65°	14180.3	3222.2	222.4	128.3	91.2	71.3	54.2	51.3	31.4	17.1	14.3
67.5°	12395.3	2509.3	188.2	105.5	77.0	51.3	37.1	34.2	17.1	5.7	0.0
70°	9444.0	1710.9	156.8	85.5	57.0	37.1	25.7	20.0	11.4	2.9	0.0
72.5°	5443.4	941.0	131.2	65.6	42.8	28.5	20.0	11.4	11.4	0.0	0.0
75°	1944.7	404.9	99.8	48.5	34.2	22.8	14.3	5.7	8.6	2.9	0.0
77.5°	618.8	216.7	65.6	37.1	28.5	17.1	11.4	5.7	5.7	2.9	0.0
80°	182.5	114.1	39.9	31.4	20.0	14.3	8.6	2.9	5.7	2.9	0.0
82.5°	99.8	57.0	31.4	22.8	20.0	11.4	8.6	2.9	2.9	2.9	0.0
85°	51.3	34.2	25.7	22.8	20.0	11.4	8.6	2.9	0.0	2.9	2.9
87.5°	28.5	25.7	25.7	22.8	20.0	14.3	8.6	2.9	0.0	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)