

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: P458202

Luminaire Tested: **GALN-SA9C-760-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458202  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9C-760-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52722 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

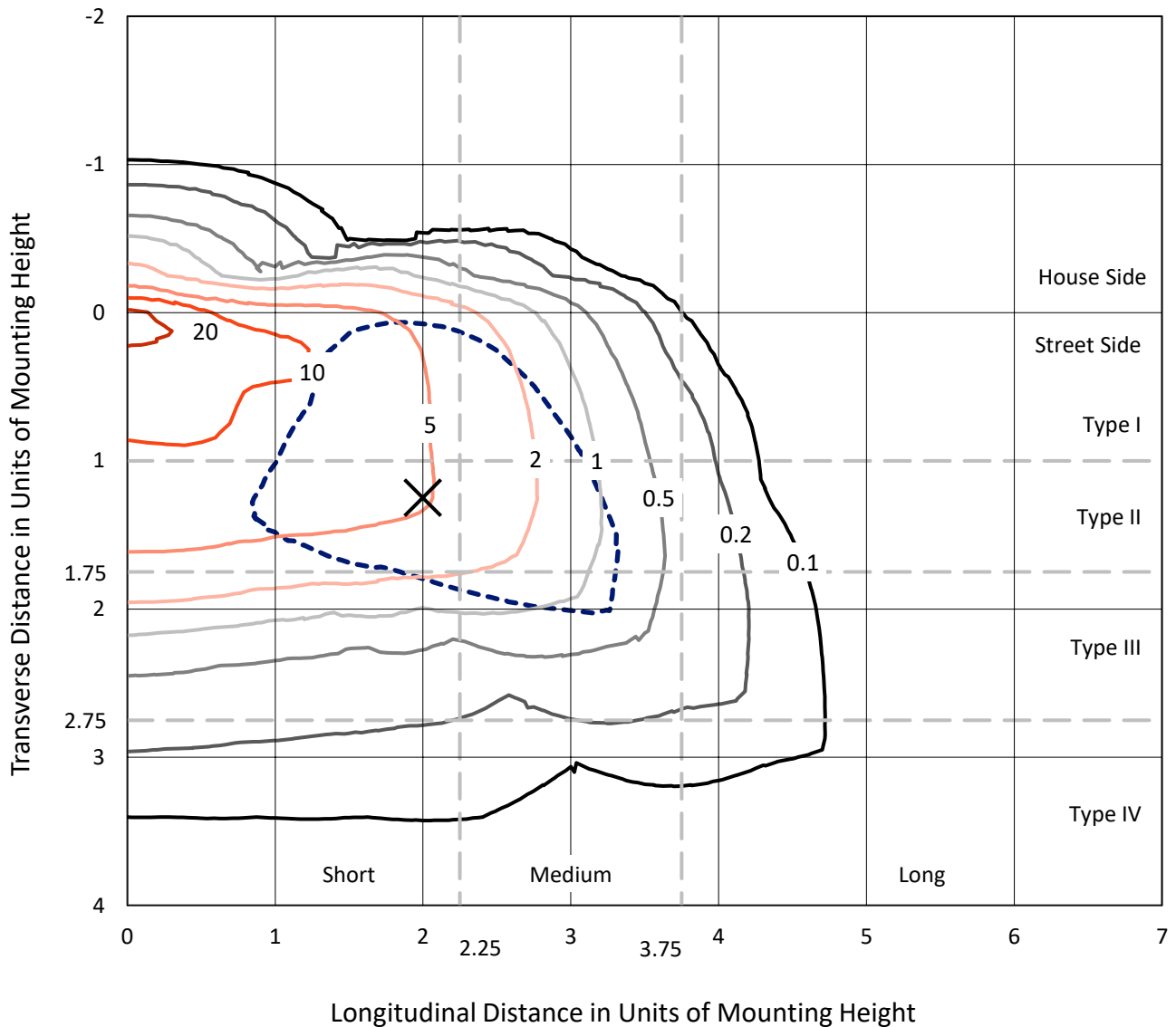
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

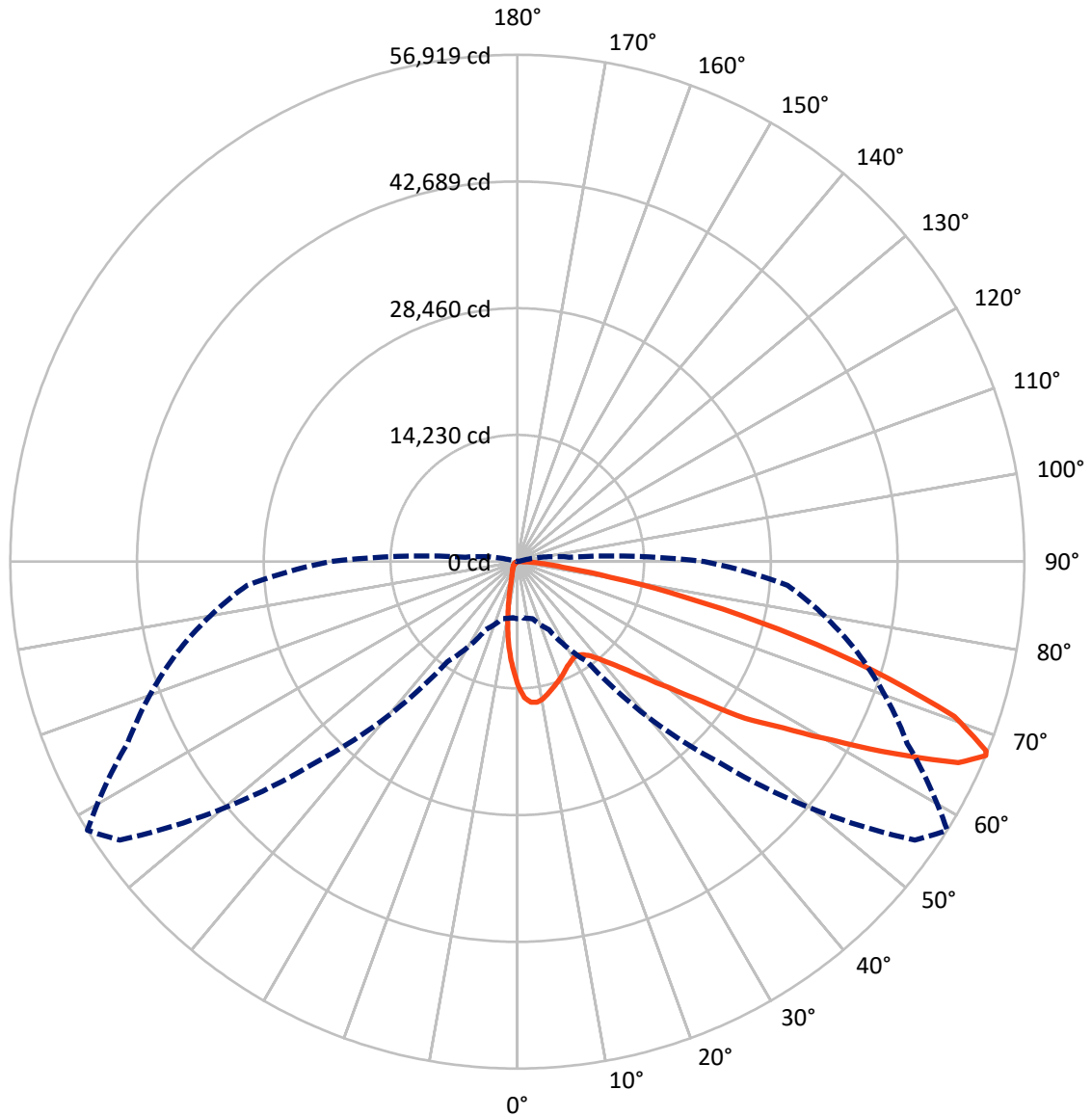
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3804.7	0.0	3804.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	48917.3	0.0	48917.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	52722.0	0.0	52722.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1134.1	2.2
10°-20°	2449.4	4.6
20°-30°	3319.2	6.3
30°-40°	4603.5	8.7
40°-50°	7342.0	13.9
50°-60°	12691.3	24.1
60°-70°	14497.5	27.5
70°-80°	6044.1	11.5
80°-90°	640.8	1.2
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°	52722.0	100.0
0°-180°	52722.0	100.0

**Coefficient of Utilization**



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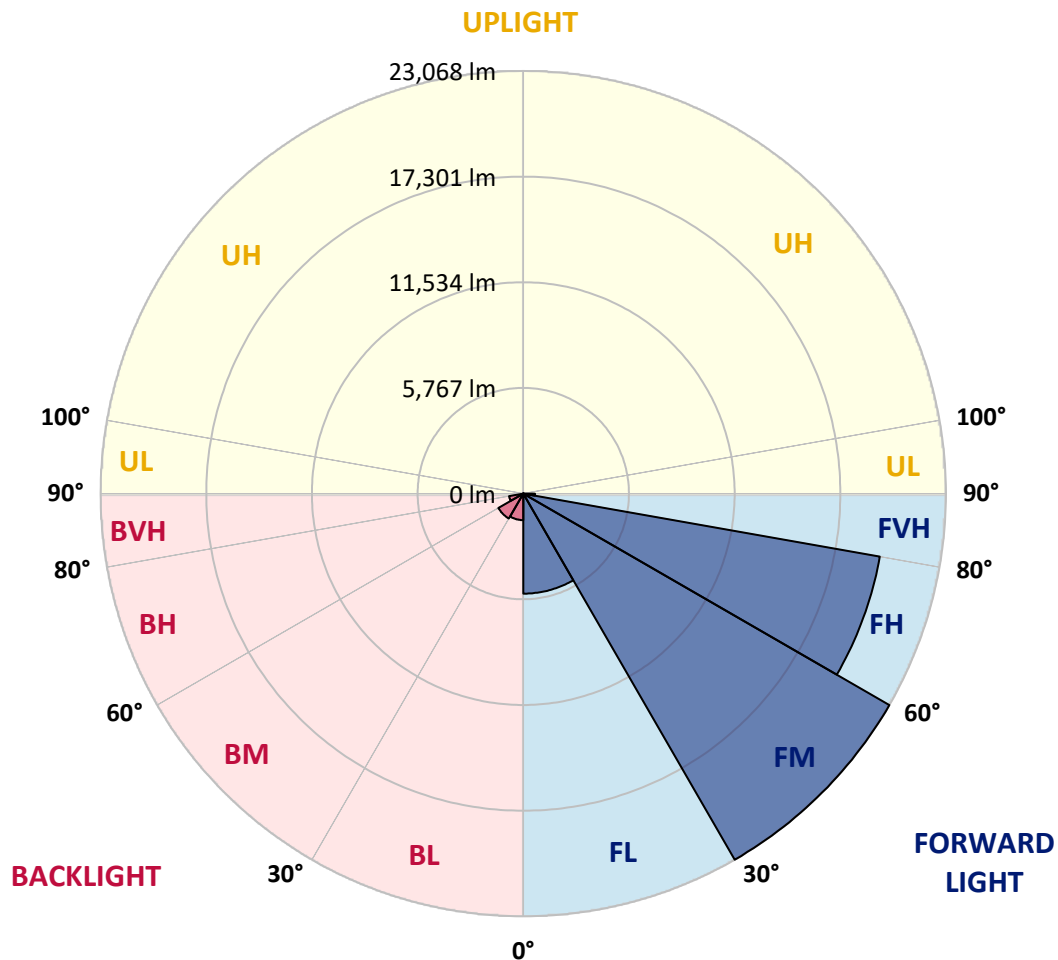
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5458.0	10.4			
FM (30°-60°)	23068.1	43.8			
FH (60°-80°)	19755.0	37.5			G5
FVH (80°-90°)	636.2	1.2			G4/750
BL (0°-30°)	1444.7	2.7	B3/2500		
BM (30°-60°)	1568.8	3.0	B2/2500		
BH (60°-80°)	786.6	1.5	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1
2.5°	16220.3	16245.0	16153.4	16079.4	15889.2	15684.8	15413.5	15269.1	15022.5	14596.2	14124.1
5°	16600.8	16632.5	16618.4	16600.8	16526.8	16329.5	15984.3	15857.5	15494.6	14800.5	13947.9
7.5°	15755.3	15871.5	15885.6	16023.0	16153.4	16171.0	16040.7	15945.5	15610.8	14797.0	13634.4
10°	14634.9	14712.4	14825.2	14983.7	15297.3	15558.0	15684.8	15670.7	15477.0	14687.8	13268.0
12.5°	13504.0	13546.3	13718.9	13990.2	14374.2	14818.1	15156.4	15223.3	15226.8	14557.4	12961.5
15°	12531.6	12514.0	12647.9	12961.5	13500.5	14057.1	14663.1	14768.8	14937.9	14430.6	12676.1
17.5°	11700.2	11791.8	11812.9	12158.2	12655.0	13377.2	14148.7	14335.5	14673.7	14321.4	12440.0
20°	11185.8	11235.2	11281.0	11474.7	11922.2	12683.1	13666.1	13923.3	14427.1	14222.7	12175.8
22.5°	11034.3	11066.0	11027.3	11087.2	11404.3	12080.7	13141.1	13482.9	14191.0	14131.1	11960.9
25°	11150.6	11182.3	11090.7	11020.2	11129.5	11591.0	12633.8	13049.5	14000.8	14113.5	11798.8
27.5°	11432.4	11492.3	11365.5	11238.7	11175.3	11326.8	12235.7	12718.4	13870.4	14198.1	11724.9
30°	11872.8	11908.1	11812.9	11657.9	11513.5	11362.0	12027.8	12489.4	13835.2	14395.4	11717.8
32.5°	12352.0	12426.0	12373.1	12270.9	12084.2	11724.9	12087.7	12496.4	13919.7	14680.7	11805.9
35°	12943.9	13028.4	13077.7	13056.6	12817.0	12369.6	12468.2	12813.5	14145.2	15205.7	12045.5
37.5°	13525.2	13599.1	13877.5	13972.6	13761.2	13338.4	13208.1	13437.1	14642.0	15892.7	12478.8
40°	14191.0	14289.7	14680.7	15043.6	14941.4	14497.5	14258.0	14448.2	15403.0	16928.5	13299.7
42.5°	14828.7	15004.9	15600.3	16241.5	16336.6	15839.8	15681.3	15744.7	16530.4	18418.7	14444.7
45°	15734.1	15899.7	16667.8	17538.0	17985.4	17597.9	17435.8	17425.2	18077.0	20515.0	16301.4
47.5°	17041.2	17189.2	18094.6	18954.3	19750.5	19803.3	19496.8	19602.5	20021.7	22967.1	18577.3
50°	18644.2	18993.0	19588.4	20483.3	21547.2	22406.9	22502.0	22361.1	22720.4	25806.7	21311.2
52.5°	20973.0	21106.9	21652.9	22389.3	23636.4	25095.0	26225.9	26032.1	25919.4	28512.4	24073.3
55°	22709.9	22889.5	23738.6	24749.7	26578.2	28501.8	30953.9	31020.9	29597.5	31112.5	26775.5
57.5°	22184.9	22459.7	23745.7	25778.5	29798.3	33314.4	35139.4	35185.2	33000.8	33638.5	29826.5
60°	19489.8	19620.1	21462.7	24175.5	30073.1	38528.6	41075.8	40705.8	36464.0	36464.0	32521.7
62.5°	13821.1	14025.4	15519.2	19510.9	27159.5	40339.4	48185.4	47420.9	41234.3	39166.2	34128.2
65°	8832.4	8635.1	9625.1	12316.7	20233.1	37665.4	54375.4	54421.2	45722.7	40247.8	33251.0
67°	6397.9	6320.4	6605.8	8420.2	13718.9	31662.1	54505.8	56919.1	48301.6	39564.4	30446.6
67.5°	5851.9	5911.8	6119.6	7595.8	12464.7	28811.9	53913.9	56771.2	48882.9	39152.2	29431.9
70°	4435.6	4333.4	4558.9	5372.7	7472.5	18175.6	46378.0	52067.8	48160.7	35061.8	23516.7
72.5°	3262.4	3251.8	3565.4	4393.3	5753.2	9681.5	34815.2	41748.7	39345.9	26698.0	14807.6
75°	2201.9	2300.6	2800.9	3671.1	5214.2	6278.2	23735.1	30288.0	27314.6	15159.9	6052.7
77.5°	1254.2	1261.3	1803.8	2948.8	4682.2	5052.1	14064.2	19296.0	14458.8	5041.5	1796.8
80°	542.6	595.4	894.9	2142.0	3882.5	4474.3	8064.4	10604.5	5848.3	1067.5	581.3
82.5°	200.8	236.0	394.6	1317.6	2832.6	3685.2	4872.4	5062.7	1983.5	377.0	362.9
85°	0.0	7.0	144.4	616.5	1476.2	1645.3	3255.3	3001.7	877.3	179.7	236.0
87.5°	0.0	0.0	0.0	63.4	193.8	613.0	1011.1	1127.4	211.4	63.4	56.4
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°	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1	13976.1
2.5°	13870.4	13641.4	13067.2	12492.9	12066.6	11710.8	11175.3	10882.8	10727.8	10498.8	10512.9
5°	13521.6	13056.6	12045.5	10999.1	10153.6	9329.2	8342.7	7944.6	7609.9	7419.6	7292.8
7.5°	13003.7	12316.7	10819.4	9424.3	8124.3	6683.3	5601.7	4879.5	4393.3	4213.6	4041.0
10°	12436.5	11524.0	9575.8	7641.6	5837.8	4351.0	3435.0	2772.7	2536.6	2318.2	2339.3
12.5°	11911.6	10801.8	8434.3	6031.5	4090.3	2765.6	2156.1	1884.9	1807.3	1782.7	1782.7
15°	11481.8	10111.3	7208.3	4534.2	2804.4	1987.0	1726.3	1652.3	1624.1	1617.1	1617.1
17.5°	11023.8	9456.0	6102.0	3350.5	2039.9	1662.9	1574.8	1525.5	1514.9	1507.9	1507.9
20°	10615.1	8797.2	5052.1	2494.4	1648.8	1497.3	1440.9	1409.2	1398.7	1391.6	1395.1
22.5°	10227.5	8212.3	4065.7	1884.9	1451.5	1363.4	1307.1	1275.4	1254.2	1236.6	1240.1
25°	9882.3	7648.6	3269.4	1543.1	1307.1	1229.6	1173.2	1127.4	1081.6	1060.5	1056.9
27.5°	9639.2	7155.4	2547.2	1321.2	1176.7	1092.2	1021.7	965.3	905.4	873.7	866.7
30°	9438.4	6655.1	2015.2	1166.1	1046.4	965.3	877.3	796.2	732.8	701.1	687.0
32.5°	9308.0	6179.5	1588.9	1039.3	937.1	838.5	739.8	658.8	588.4	556.6	549.6
35°	9286.9	5781.4	1300.0	933.6	838.5	732.8	630.6	542.6	482.7	451.0	443.9
37.5°	9438.4	5474.9	1088.6	849.1	757.5	641.2	528.5	447.4	394.6	369.9	366.4
40°	9843.5	5281.1	944.2	778.6	683.5	556.6	451.0	380.5	327.6	303.0	303.0
42.5°	10615.1	5288.2	849.1	711.7	609.5	475.6	384.0	317.1	271.3	250.1	243.1
45°	11820.0	5527.7	768.0	644.7	539.0	412.2	327.6	260.7	214.9	197.3	197.3
47.5°	13433.6	6003.4	697.6	577.8	475.6	352.3	278.3	211.4	172.6	155.0	155.0
50°	15543.9	6767.9	637.7	521.4	422.8	303.0	225.5	172.6	133.9	119.8	116.3
52.5°	17749.4	7712.1	567.2	472.1	362.9	257.2	183.2	133.9	102.2	91.6	88.1
55°	20183.8	8635.1	500.3	422.8	295.9	214.9	144.4	105.7	74.0	63.4	63.4
57.5°	22639.4	9540.5	419.2	352.3	232.5	158.5	112.7	77.5	49.3	38.8	38.8
60°	24718.0	9833.0	355.8	285.4	176.2	112.7	81.0	49.3	28.2	17.6	17.6
62.5°	25003.4	8846.5	299.5	218.4	126.8	77.5	42.3	28.2	10.6	7.0	7.0
65°	23453.2	7187.1	250.1	165.6	84.6	38.8	17.6	10.6	3.5	0.0	0.0
67°	21015.3	5827.2	204.3	123.3	59.9	24.7	10.6	3.5	0.0	0.0	0.0
67.5°	20391.7	5555.9	197.3	116.3	52.8	21.1	7.0	3.5	0.0	0.0	0.0
70°	16001.9	4160.8	140.9	70.5	31.7	14.1	0.0	0.0	0.0	0.0	0.0
72.5°	9945.7	2353.4	102.2	42.3	21.1	7.0	0.0	0.0	0.0	0.0	0.0
75°	3759.1	824.4	70.5	28.2	14.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1169.7	313.6	42.3	21.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	394.6	119.8	28.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	243.1	49.3	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	151.5	21.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	7.0	3.5	0.0	0.0	0.0	0.0	0.0	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)