

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: P458126

Luminaire Tested: **GALN-SA9C-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458126  
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-SA9C-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA 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: 46472 lumens  
Efficiency: N/A  
Efficacy: 96.6 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

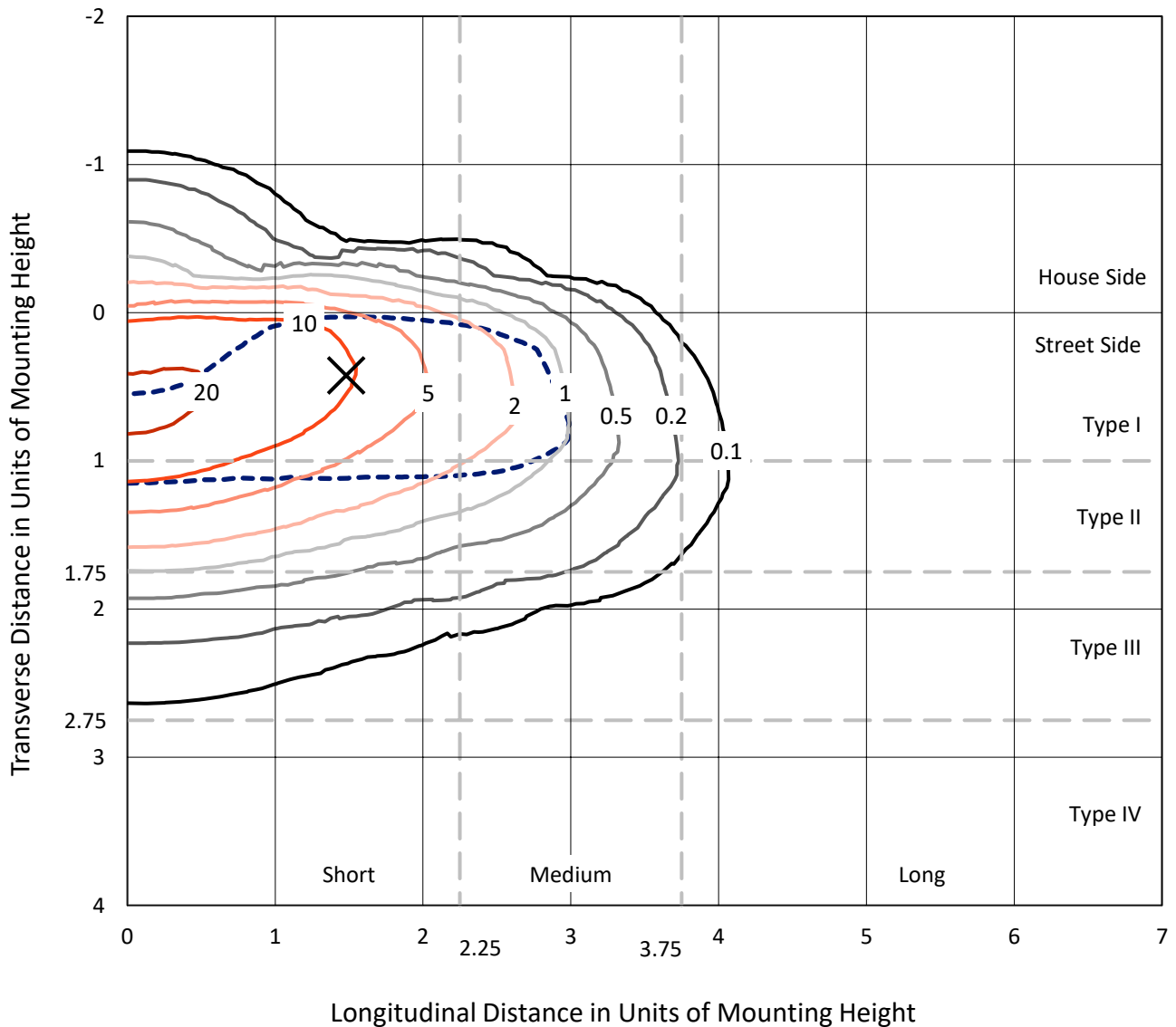
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

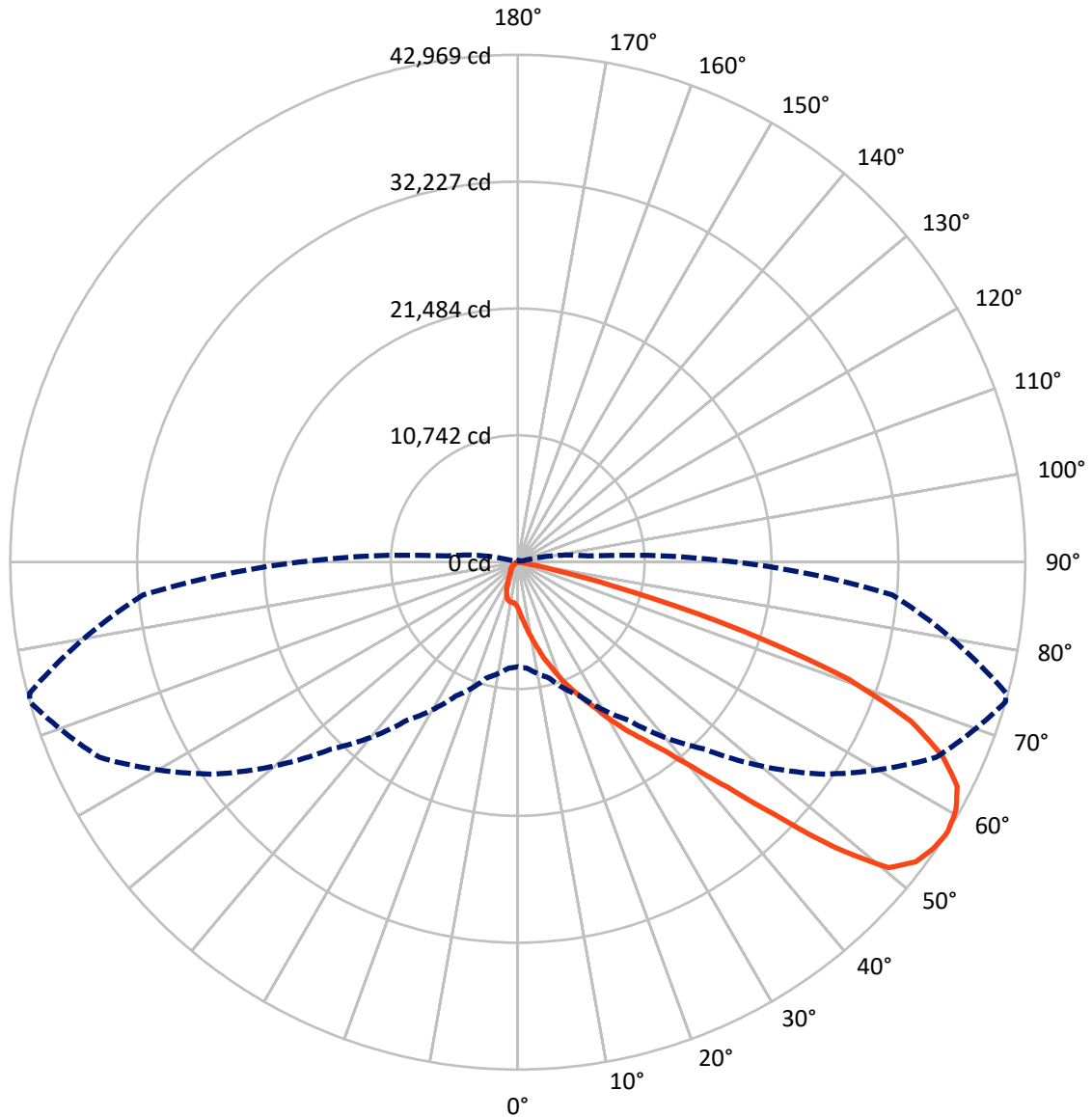
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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
<b>House Side</b>	Lumens	2680.4	0.0	2680.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	43791.7	0.0	43791.7
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	46472.0	0.0	46472.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.8	1.0
10°-20°	1851.6	4.0
20°-30°	3962.1	8.5
30°-40°	7282.2	15.7
40°-50°	11163.8	24.0
50°-60°	11809.8	25.4
60°-70°	7712.1	16.6
70°-80°	2107.2	4.5
80°-90°	113.5	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°	46472.0	100.0
0°-180°	46472.0	100.0

**Coefficient of Utilization**



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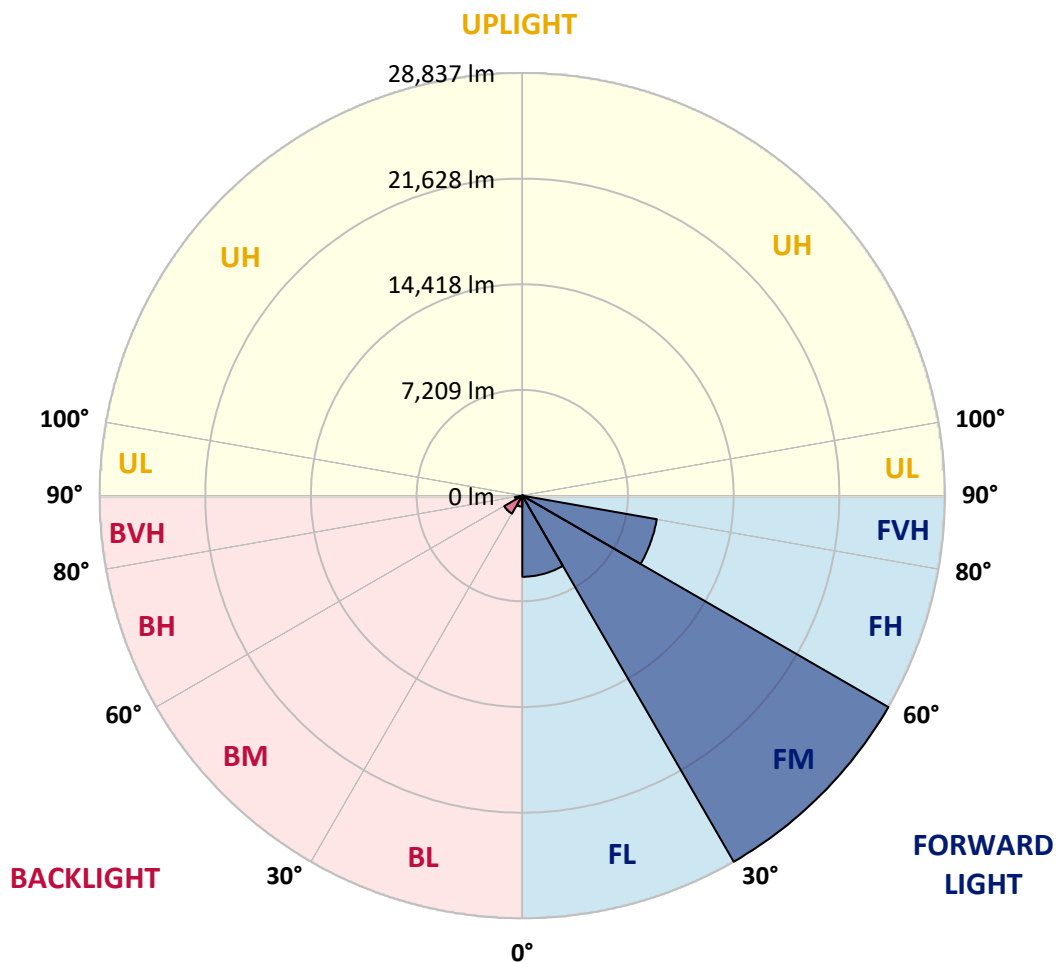
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5534.8	11.9			
FM	(30°-60°)	28836.7	62.1			
FH	(60°-80°)	9316.1	20.0			G4/12000
FVH	(80°-90°)	104.1	0.2			G2/225
BL	(0°-30°)	748.7	1.6	B2/1000		
BM	(30°-60°)	1419.0	3.1	B2/2500		
BH	(60°-80°)	503.2	1.1	B2/1000		G2/1000
BVH	(80°-90°)	9.4	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°	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0
2.5°	5695.2	5643.8	5541.2	5505.9	5355.1	5120.8	4915.5	4639.6	4421.4	4398.9	4135.8
5°	7626.7	7511.2	7463.1	7232.1	6869.5	6529.4	5945.4	5502.7	4992.5	4954.0	4424.6
7.5°	9487.7	9327.3	9279.1	9060.9	8637.4	8101.6	7344.4	6539.0	5730.5	5656.7	4812.8
10°	10835.3	10857.7	10771.1	10626.7	10283.4	9737.9	8804.3	7703.7	6551.9	6458.8	5249.2
12.5°	11801.0	11797.8	11813.9	11810.7	11627.8	11213.9	10232.1	8964.7	7456.7	7273.8	5749.7
15°	12429.9	12439.5	12487.7	12654.5	12673.8	12417.1	11598.9	10171.1	8505.9	8278.1	6292.0
17.5°	13065.2	13132.6	13209.6	13366.8	13508.0	13405.3	12827.8	11428.9	9455.6	9285.5	6872.7
20°	14114.4	14207.5	14162.5	14258.8	14332.6	14342.2	13896.2	12590.3	10607.5	10321.9	7536.9
22.5°	15792.5	15789.3	15673.8	15500.5	15356.1	15349.7	14945.4	13783.9	11653.4	11377.5	8204.3
25°	17913.3	17923.0	17698.4	17204.2	16844.9	16405.3	15940.1	14829.9	12773.2	12433.1	8906.9
27.5°	20345.4	20284.4	19944.3	19264.1	18551.8	17801.0	17130.4	16046.0	13960.4	13678.0	9712.3
30°	22530.4	22508.0	22110.1	21279.1	20342.2	19588.2	18616.0	17570.0	15497.3	15150.8	10613.9
32.5°	24564.6	24596.7	24044.9	23185.0	22280.2	21410.6	20383.9	19026.7	17005.3	16514.4	11595.7
35°	26152.9	26185.0	25613.8	24898.3	23967.9	23245.9	22267.3	20579.6	18494.1	18080.2	12725.1
37.5°	26999.9	27041.6	26711.2	26172.1	25591.4	25228.8	24317.6	22578.6	20303.7	20053.4	14059.9
40°	27160.4	27208.5	27064.1	26919.7	26887.6	27147.5	26881.2	24933.6	22812.8	22421.3	16049.2
42.5°	26679.1	26743.3	26807.4	27128.3	27782.8	28735.8	29663.0	28129.3	26043.8	25517.6	18481.2
45°	25414.9	25408.5	25662.0	26493.0	27959.3	29993.5	32570.0	32130.4	30445.9	29820.3	21917.6
47.5°	23252.4	23220.3	23768.9	24952.9	27237.4	30224.5	34941.1	36988.1	36064.1	35486.5	25610.6
50°	19957.2	20114.4	20977.5	22629.9	25443.8	29525.1	35672.6	40174.2	40674.8	40061.9	28594.6
52.5°	16097.3	16090.9	17444.9	19687.7	22787.1	27985.0	35162.5	40751.8	42173.2	41704.7	30064.1
55°	11913.3	11996.8	13405.3	15667.3	19337.9	25174.3	33497.2	40158.2	42744.3	42413.8	31033.1
57°	8862.0	9009.6	10139.0	12532.6	16334.7	22392.5	31280.1	39096.2	42968.9	42789.2	31838.4
57.5°	8271.6	8278.1	9378.6	11554.0	15455.6	21324.0	30644.8	38653.4	42962.5	42863.0	31970.0
60°	5092.0	5252.4	6012.8	7809.6	11313.3	16642.7	26387.1	36109.0	42628.8	42773.2	32531.5
62.5°	3048.1	3115.5	3609.6	4706.9	7293.0	12147.6	21593.5	32852.3	41759.3	42198.8	32493.0
65°	1960.4	1976.5	2201.1	2849.2	4559.3	8210.7	16639.5	28549.7	39510.1	40318.6	31222.4
67.5°	1514.4	1540.1	1629.9	1870.6	2643.8	5114.4	11769.0	23958.2	35871.6	36914.4	28142.2
70°	1344.4	1357.2	1389.3	1466.3	1748.7	2887.7	7321.9	18715.5	29746.5	30041.6	22023.5
72.5°	1097.3	1132.6	1232.1	1257.8	1386.1	1803.2	4074.9	12561.5	19986.0	20059.8	12320.8
75°	850.3	856.7	1004.3	1078.1	1167.9	1241.7	1819.2	6333.7	9600.0	9086.6	4748.7
77.5°	635.3	664.2	731.5	824.6	952.9	888.8	815.0	2387.2	2980.7	2926.2	1379.7
80°	407.5	423.5	510.2	619.2	741.2	580.7	458.8	699.5	654.5	673.8	330.5
82.5°	205.3	208.6	327.3	503.7	471.7	292.0	288.8	285.6	243.8	240.6	154.0
85°	22.5	48.1	211.8	288.8	211.8	96.3	134.8	131.6	128.3	131.6	89.8
87.5°	3.2	3.2	35.3	41.7	28.9	32.1	38.5	41.7	51.3	48.1	38.5
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°	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0	3892.0
2.5°	4007.5	3879.1	3641.7	3413.9	3243.8	3134.8	2993.6	2942.2	2868.4	2858.8	2823.5
5°	4180.7	3936.9	3523.0	3195.7	2932.6	2733.7	2560.4	2416.0	2300.5	2274.9	2287.7
7.5°	4427.8	4065.2	3487.7	3041.7	2675.9	2335.8	2059.9	1889.8	1767.9	1723.0	1729.4
10°	4706.9	4235.3	3481.3	2878.1	2319.8	1902.7	1601.1	1450.3	1379.7	1354.0	1325.1
12.5°	5037.4	4431.0	3465.2	2624.6	1928.3	1517.6	1302.7	1212.8	1145.5	1126.2	1126.2
15°	5409.6	4639.6	3388.2	2310.2	1565.8	1254.5	1110.2	1039.6	1017.1	997.9	997.9
17.5°	5797.8	4844.9	3227.8	1921.9	1299.5	1074.9	985.0	943.3	911.2	888.8	888.8
20°	6240.6	5047.0	2971.1	1578.6	1097.3	959.4	888.8	840.6	815.0	795.7	789.3
22.5°	6660.9	5210.7	2643.8	1296.3	956.1	863.1	798.9	747.6	721.9	712.3	712.3
25°	7097.3	5310.1	2249.2	1071.7	872.7	782.9	712.3	670.6	648.1	641.7	638.5
27.5°	7520.8	5367.9	1902.7	936.9	795.7	709.1	641.7	609.6	587.2	580.7	584.0
30°	8034.2	5377.5	1565.8	840.6	728.3	638.5	577.5	548.7	535.8	529.4	526.2
32.5°	8554.0	5364.7	1315.5	782.9	664.2	577.5	526.2	503.7	494.1	484.5	484.5
35°	9137.9	5297.3	1119.8	725.1	603.2	526.2	481.3	462.0	449.2	439.6	436.4
37.5°	9863.1	5262.0	1007.5	661.0	548.7	478.1	436.4	417.1	407.5	394.7	391.4
40°	11005.3	5419.2	972.2	603.2	494.1	433.2	394.7	372.2	359.4	346.5	343.3
42.5°	12429.9	5695.2	914.4	545.5	446.0	391.4	352.9	327.3	304.8	288.8	282.4
45°	14274.8	6057.7	824.6	484.5	404.3	346.5	311.2	279.1	250.3	237.4	234.2
47.5°	16209.6	6407.5	744.4	436.4	359.4	308.0	269.5	234.2	208.6	198.9	195.7
50°	17396.8	6478.1	693.0	381.8	314.4	266.3	227.8	195.7	179.7	170.1	170.1
52.5°	17939.0	6365.8	622.5	333.7	272.7	234.2	195.7	170.1	160.4	154.0	150.8
55°	18317.6	6192.5	529.4	288.8	234.2	198.9	173.3	154.0	141.2	134.8	131.6
57°	18539.0	5958.3	458.8	253.5	202.1	173.3	154.0	138.0	125.1	112.3	112.3
57.5°	18548.6	5868.4	439.6	250.3	192.5	166.8	150.8	134.8	118.7	105.9	102.7
60°	18263.1	5252.4	352.9	211.8	154.0	141.2	125.1	105.9	83.4	70.6	67.4
62.5°	17345.4	4469.5	292.0	179.7	125.1	109.1	89.8	80.2	57.8	41.7	41.7
65°	15956.1	3625.7	250.3	144.4	102.7	80.2	61.0	57.8	35.3	19.3	16.0
67.5°	13947.6	2823.5	211.8	118.7	86.6	57.8	41.7	38.5	19.3	6.4	0.0
70°	10626.7	1925.1	176.5	96.3	64.2	41.7	28.9	22.5	12.8	3.2	0.0
72.5°	6125.1	1058.8	147.6	73.8	48.1	32.1	22.5	12.8	12.8	0.0	0.0
75°	2188.2	455.6	112.3	54.5	38.5	25.7	16.0	6.4	9.6	3.2	0.0
77.5°	696.3	243.8	73.8	41.7	32.1	19.3	12.8	6.4	6.4	3.2	0.0
80°	205.3	128.3	44.9	35.3	22.5	16.0	9.6	3.2	6.4	3.2	0.0
82.5°	112.3	64.2	35.3	25.7	22.5	12.8	9.6	3.2	3.2	3.2	0.0
85°	57.8	38.5	28.9	25.7	22.5	12.8	9.6	3.2	0.0	3.2	3.2
87.5°	32.1	28.9	28.9	25.7	22.5	16.0	9.6	3.2	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)