

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: P458124

Luminaire Tested: **GALN-SA9C-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43391 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

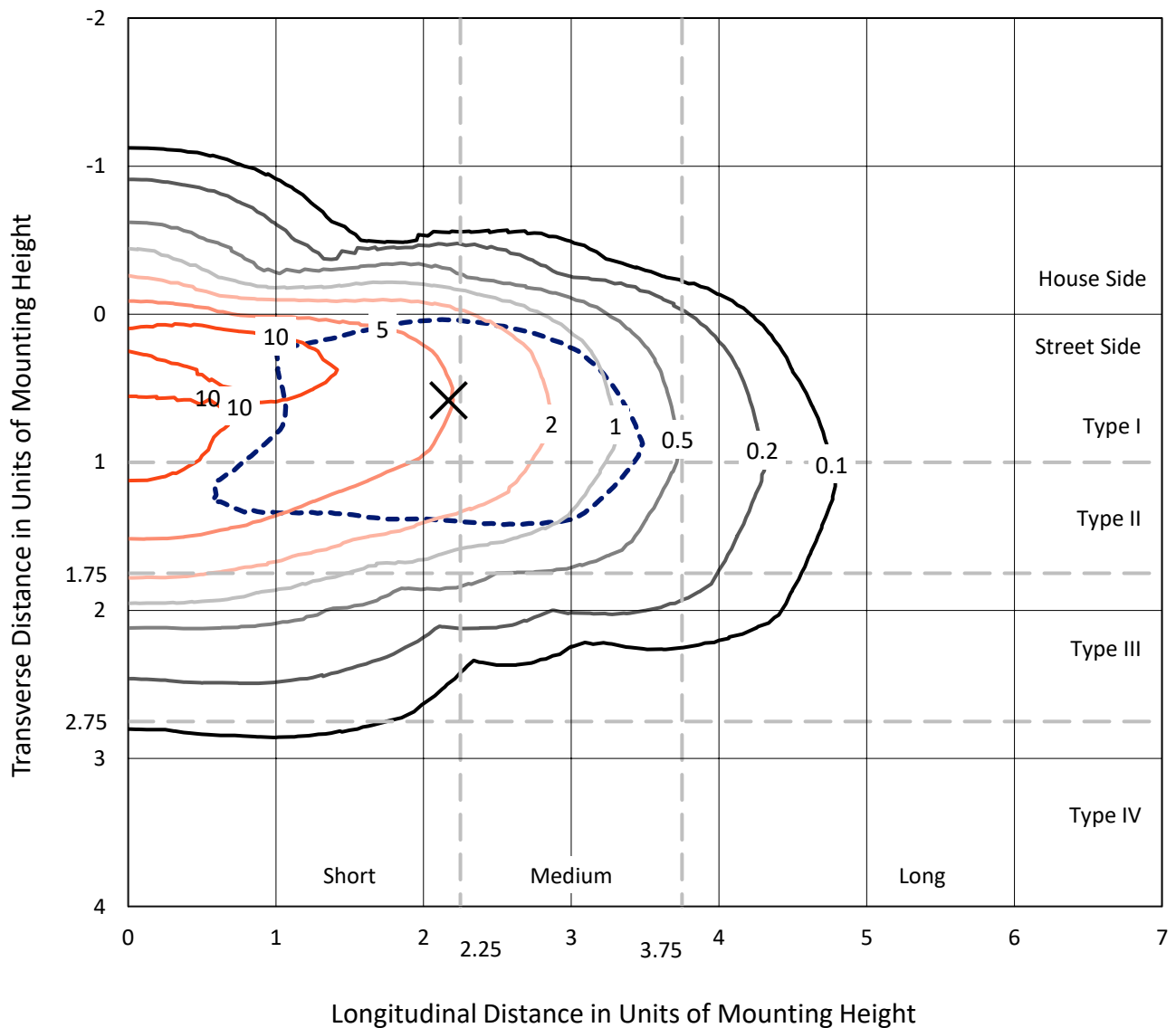
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

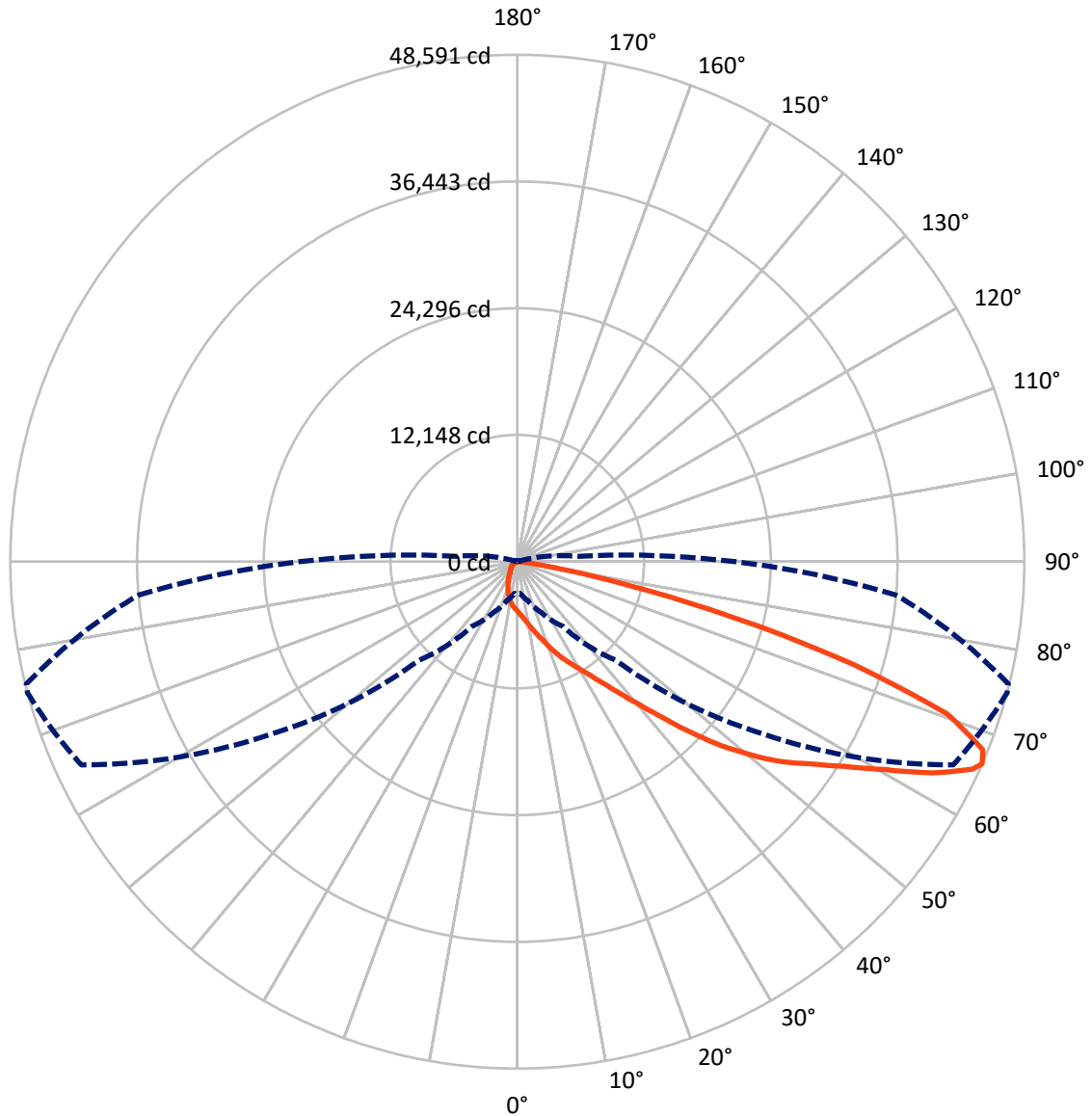
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2678.8	0.0	2678.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	40712.2	0.0	40712.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	43391.0	0.0	43391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.7	1.1
10°-20°	1347.0	3.1
20°-30°	2326.0	5.4
30°-40°	4195.5	9.7
40°-50°	7579.4	17.5
50°-60°	11816.3	27.2
60°-70°	11225.0	25.9
70°-80°	4206.8	9.7
80°-90°	237.3	0.5
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°	43391.0	100.0
0°-180°	43391.0	100.0

Coefficient of Utilization



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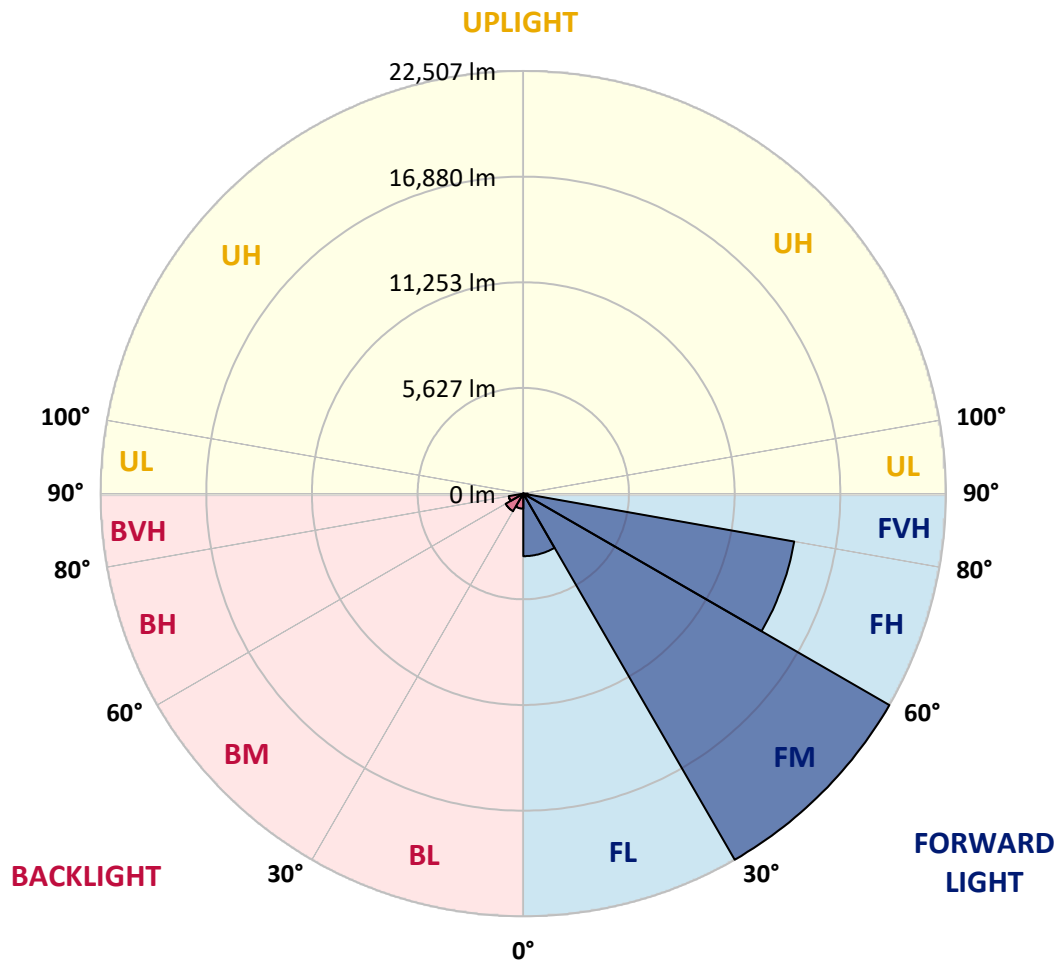
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3330.6	7.7			
FM	(30°-60°)	22506.9	51.9			
FH	(60°-80°)	14649.6	33.8			G5
FVH	(80°-90°)	225.1	0.5			G3/500
BL	(0°-30°)	800.0	1.8	B2/1000		
BM	(30°-60°)	1084.3	2.5	B2/2500		
BH	(60°-80°)	782.2	1.8	B2/1000		G2/1000
BVH	(80°-90°)	12.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2
2.5°	5669.3	5598.7	5621.1	5589.0	5515.3	5406.2	5309.9	5172.0	5034.0	5011.5	4857.5
5°	6416.8	6397.6	6371.9	6278.9	6227.5	6060.7	5861.8	5624.3	5338.8	5287.5	5008.3
7.5°	6927.0	6917.3	6930.2	6882.0	6837.1	6686.3	6474.6	6150.5	5707.8	5678.9	5213.7
10°	7093.8	7119.5	7167.6	7244.6	7315.2	7267.0	7106.6	6702.4	6185.8	6102.4	5447.9
12.5°	6997.5	7026.4	7141.9	7347.3	7575.1	7706.6	7642.4	7347.3	6692.7	6625.4	5711.0
15°	6750.5	6785.8	6949.4	7267.0	7674.5	8046.7	8207.1	7995.4	7283.1	7174.0	6028.6
17.5°	6384.7	6436.1	6670.3	7090.6	7648.8	8290.5	8742.9	8672.3	7911.9	7809.3	6375.1
20°	6108.8	6147.3	6346.2	6827.5	7539.8	8425.3	9253.0	9452.0	8688.4	8511.9	6782.6
22.5°	6291.7	6304.5	6371.9	6660.7	7344.0	8460.6	9702.2	10263.7	9512.9	9355.7	7206.1
25°	7186.8	7058.5	6991.1	6927.0	7302.3	8428.5	10109.7	11110.7	10334.3	10167.4	7626.4
27.5°	8598.5	8540.8	8200.7	7745.1	7658.5	8470.2	10379.2	11912.8	11107.5	10927.8	8037.1
30°	10135.4	10035.9	9827.4	9160.0	8489.4	8765.4	10574.9	12692.5	12021.9	11784.5	8412.4
32.5°	11547.1	11611.2	11300.0	10613.4	9837.0	9394.2	10828.4	13542.7	13071.1	12775.9	8848.8
35°	13193.0	13321.3	12843.3	12185.5	11277.6	10530.0	11322.5	14502.0	14402.5	14030.4	9522.6
37.5°	14864.6	14941.6	14649.6	13725.6	12907.4	11973.8	12252.9	15685.9	16042.0	15724.4	10327.9
40°	16269.8	16375.7	16160.7	15339.4	14466.7	13645.4	13603.6	16975.7	17992.7	17665.5	11527.8
42.5°	17344.7	17424.9	17431.3	16850.6	16064.5	15692.3	15326.6	18621.6	20437.6	20059.0	12920.3
45°	18701.8	18817.3	18749.9	18355.3	17768.2	17700.8	17511.5	20610.8	23363.6	22885.6	14726.6
47.5°	20800.1	20877.1	20710.3	20245.1	19648.3	19754.2	19641.9	22840.7	26347.4	25936.8	16597.1
50°	22256.7	22385.1	22622.5	22808.6	22375.4	21984.0	21650.3	24922.9	29180.5	28811.5	18509.3
52.5°	22240.7	22452.4	23203.2	24140.1	25086.5	24967.8	24008.5	27223.3	31885.2	31429.6	20306.0
55°	20742.4	21153.0	22256.7	23918.7	26539.9	27845.8	27409.4	29886.3	34220.9	33912.9	22388.3
57.5°	17649.4	17899.7	19433.3	21756.2	25728.2	29199.7	31349.4	33495.8	37021.8	36877.4	25622.3
60°	11871.1	11983.4	13956.6	16828.1	21903.8	27849.0	34236.9	37862.4	40470.9	40400.3	29398.6
62.5°	6801.8	6850.0	8280.9	10703.2	15586.4	23601.0	34480.8	43249.3	44606.5	44645.0	33768.5
65°	3660.8	3686.5	4841.5	6282.1	9484.1	16821.7	31006.1	46201.1	47949.7	48023.4	36476.4
66°	3160.3	3038.4	3853.3	5354.8	7546.2	13388.7	28808.3	46095.2	48591.3	48511.1	36380.1
67.5°	2403.1	2512.2	3076.9	4116.4	5592.3	9519.3	23783.9	44045.0	48103.7	47853.4	34901.1
70°	1719.7	1764.6	2191.3	2935.7	3808.4	5223.3	15198.2	36582.3	43721.0	43384.1	30406.1
72.5°	1110.1	1158.2	1552.9	2124.0	2752.8	2852.3	8508.7	26430.9	33707.5	33659.4	22898.4
75°	792.5	837.4	1026.7	1520.8	2069.4	1764.6	4097.1	17813.1	21429.0	21284.6	14165.1
77.5°	574.3	596.8	686.6	994.6	1479.1	1264.1	1899.4	9512.9	10668.0	11171.7	6259.6
80°	330.5	349.7	478.1	606.4	1001.0	863.1	908.0	3818.0	3936.7	3747.4	1957.1
82.5°	163.6	186.1	285.5	413.9	625.6	580.7	417.1	1148.6	1212.8	1180.7	494.1
85°	38.5	48.1	160.4	272.7	304.8	259.9	202.1	336.9	417.1	407.5	189.3
87.5°	3.2	6.4	57.8	48.1	51.3	86.6	70.6	86.6	134.8	125.1	67.4
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°	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2	4745.2
2.5°	4786.9	4726.0	4549.5	4376.3	4231.9	4081.1	3943.1	3862.9	3830.8	3795.5	3811.6
5°	4854.3	4706.7	4350.6	4042.6	3741.0	3484.3	3279.0	3147.4	3083.3	3073.7	3057.6
7.5°	4944.2	4690.7	4138.8	3657.6	3263.0	2977.4	2743.2	2553.9	2496.1	2444.8	2403.1
10°	5053.2	4661.8	3875.8	3253.3	2833.0	2473.7	2165.7	1941.1	1825.6	1793.5	1816.0
12.5°	5168.7	4607.3	3599.8	2881.1	2396.7	1937.9	1652.3	1540.0	1508.0	1495.1	1498.3
15°	5284.2	4539.9	3311.1	2521.8	1909.0	1546.5	1414.9	1386.0	1373.2	1366.8	1360.4
17.5°	5390.1	4430.8	2987.0	2172.1	1546.5	1321.9	1273.7	1248.1	1222.4	1212.8	1196.7
20°	5515.3	4305.7	2695.1	1780.7	1309.0	1196.7	1139.0	1090.9	1052.4	1026.7	1023.5
22.5°	5634.0	4145.3	2390.3	1475.9	1193.5	1074.8	981.8	930.4	885.5	853.4	863.1
25°	5698.1	3949.5	2117.5	1286.6	1087.7	952.9	850.2	786.1	737.9	721.9	718.7
27.5°	5698.1	3708.9	1851.3	1177.5	991.4	843.8	737.9	677.0	644.9	622.4	625.6
30°	5653.2	3442.6	1604.2	1094.1	908.0	747.6	648.1	593.6	567.9	551.8	548.6
32.5°	5617.9	3189.2	1392.4	1013.9	821.4	664.1	577.5	535.8	510.1	494.1	494.1
35°	5672.5	2971.0	1228.8	933.6	741.1	600.0	523.0	484.5	458.8	446.0	442.8
37.5°	5816.8	2772.1	1103.7	847.0	667.3	545.4	484.5	439.6	413.9	397.8	391.4
40°	6173.0	2659.8	1010.6	766.8	596.8	500.5	439.6	397.8	365.8	349.7	346.5
42.5°	6744.1	2663.0	920.8	693.0	542.2	462.0	401.1	352.9	317.6	301.6	298.4
45°	7603.9	2784.9	850.2	622.4	494.1	420.3	359.3	308.0	275.9	259.9	259.9
47.5°	8633.8	3022.3	789.3	561.5	449.2	381.8	317.6	266.3	234.2	221.4	221.4
50°	9750.4	3330.3	728.3	497.3	410.7	340.1	272.7	231.0	205.3	195.7	195.7
52.5°	10889.3	3702.5	667.3	446.0	369.0	295.2	234.2	205.3	182.9	176.5	173.3
55°	12384.5	4177.3	603.2	391.4	324.0	253.5	208.5	179.7	154.0	144.4	141.2
57.5°	14684.9	4892.8	532.6	343.3	266.3	211.8	179.7	150.8	121.9	105.9	102.7
60°	17460.2	5765.5	458.8	301.6	215.0	173.3	144.4	115.5	89.8	70.6	67.4
62.5°	20059.0	6320.6	388.2	253.5	170.0	131.5	102.7	86.6	64.2	44.9	41.7
65°	21207.6	6134.5	320.8	205.3	134.8	93.0	67.4	61.0	38.5	19.3	16.0
66°	20825.8	5858.6	295.2	186.1	121.9	80.2	57.8	51.3	28.9	9.6	9.6
67.5°	19699.6	5207.2	256.7	160.4	105.9	64.2	44.9	38.5	16.0	3.2	0.0
70°	16879.4	4212.6	202.1	118.7	77.0	44.9	25.7	19.3	9.6	0.0	0.0
72.5°	12965.2	3137.8	160.4	89.8	54.5	25.7	12.8	6.4	9.6	0.0	0.0
75°	7944.0	1793.5	125.1	67.4	35.3	16.0	9.6	0.0	9.6	3.2	0.0
77.5°	3526.0	805.3	83.4	44.9	25.7	12.8	6.4	0.0	6.4	3.2	0.0
80°	891.9	263.1	48.1	32.1	19.3	9.6	3.2	0.0	6.4	6.4	3.2
82.5°	243.8	96.3	35.3	25.7	16.0	9.6	3.2	0.0	6.4	6.4	6.4
85°	96.3	44.9	32.1	25.7	19.3	9.6	3.2	0.0	6.4	6.4	6.4
87.5°	44.9	32.1	32.1	28.9	22.5	9.6	3.2	0.0	6.4	3.2	6.4
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)