

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: P458113

Luminaire Tested: **GALN-SA9C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
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-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47505 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

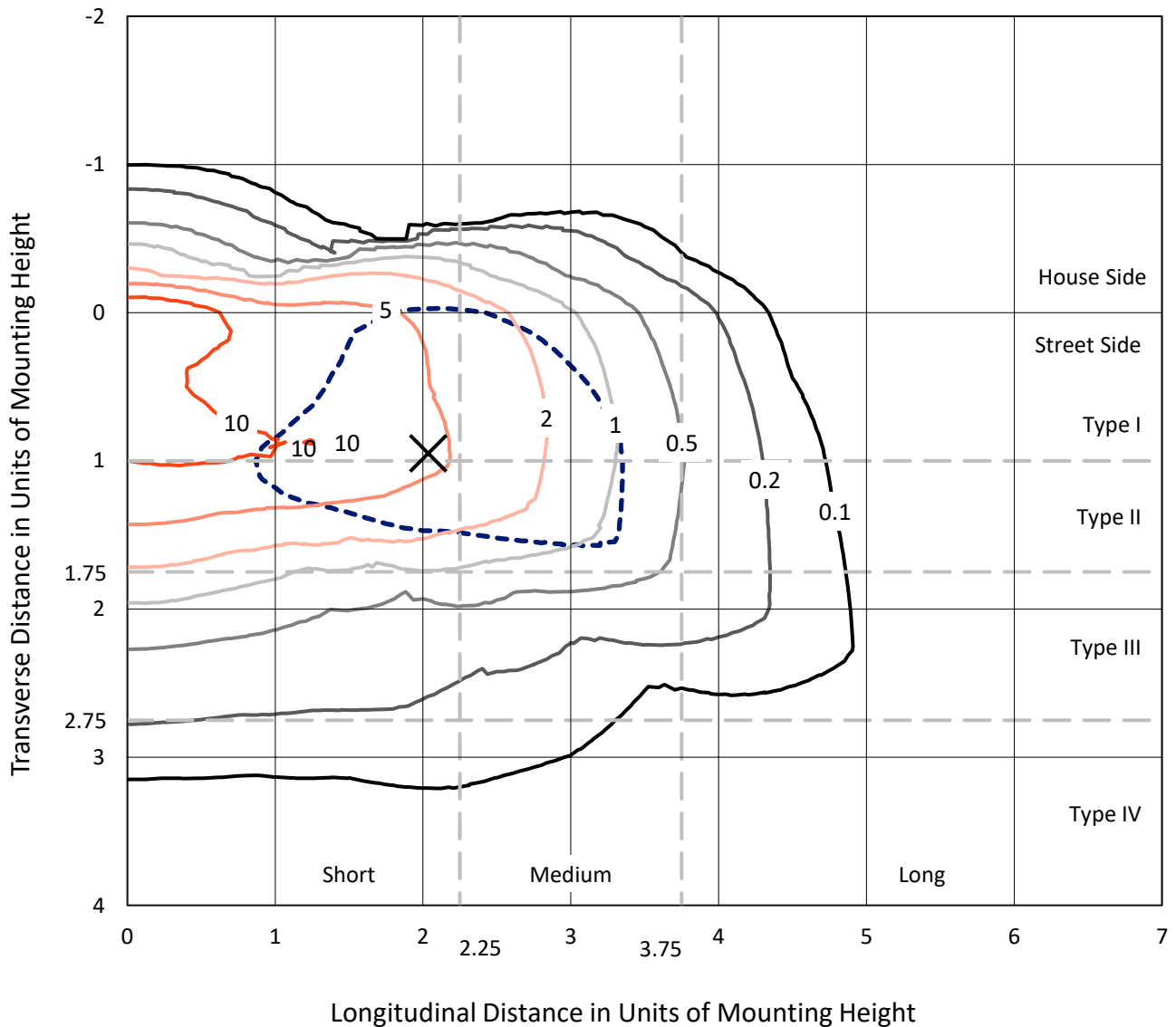
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

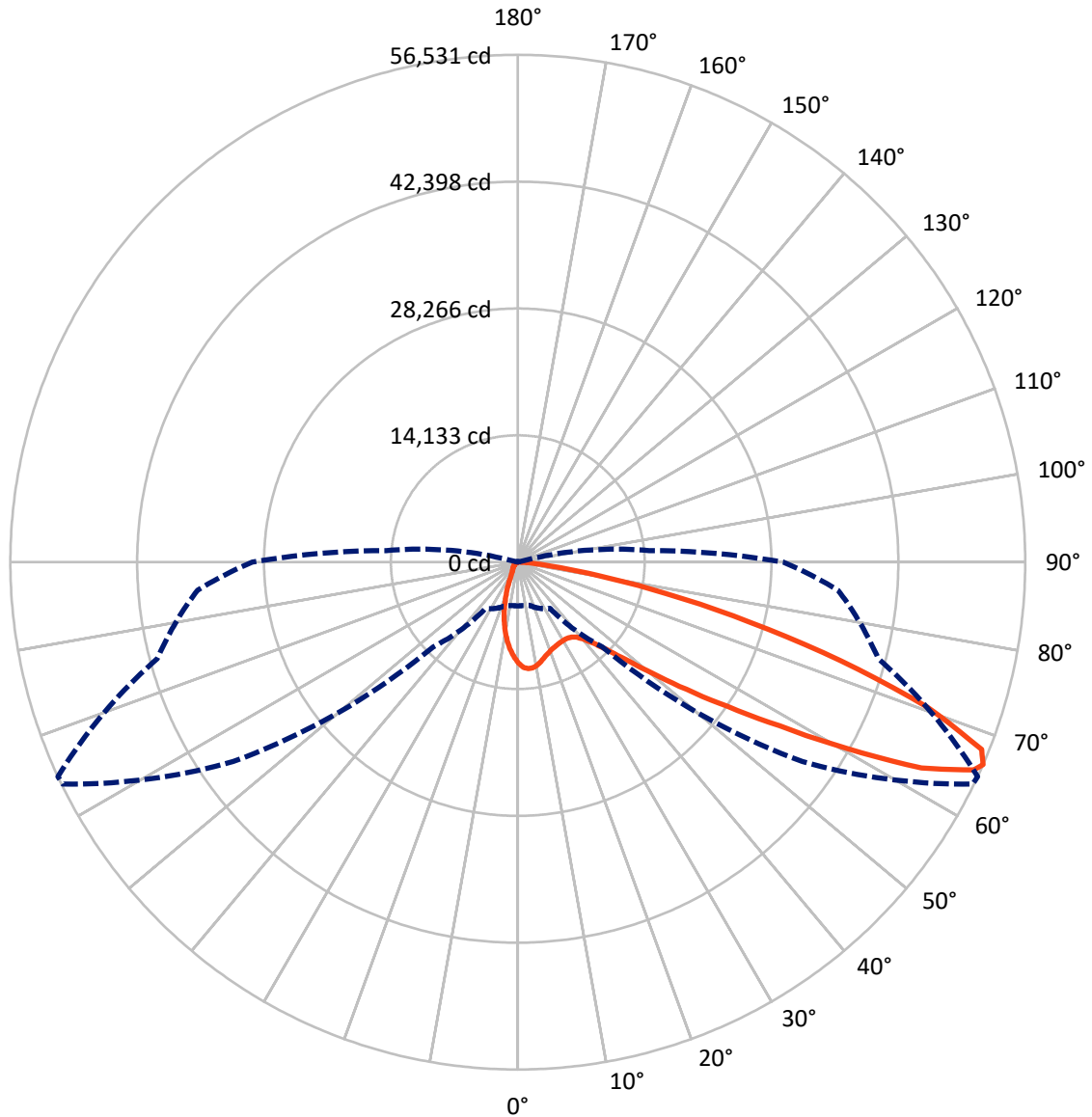
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4912.7	0.0	4912.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	42592.3	0.0	42592.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	47505.0	0.0	47505.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	921.3	1.9
10°-20°	2007.4	4.2
20°-30°	2875.6	6.1
30°-40°	4200.1	8.8
40°-50°	7042.8	14.8
50°-60°	11753.4	24.7
60°-70°	12475.8	26.3
70°-80°	5650.3	11.9
80°-90°	578.1	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°	47505.0	100.0
0°-180°	47505.0	100.0



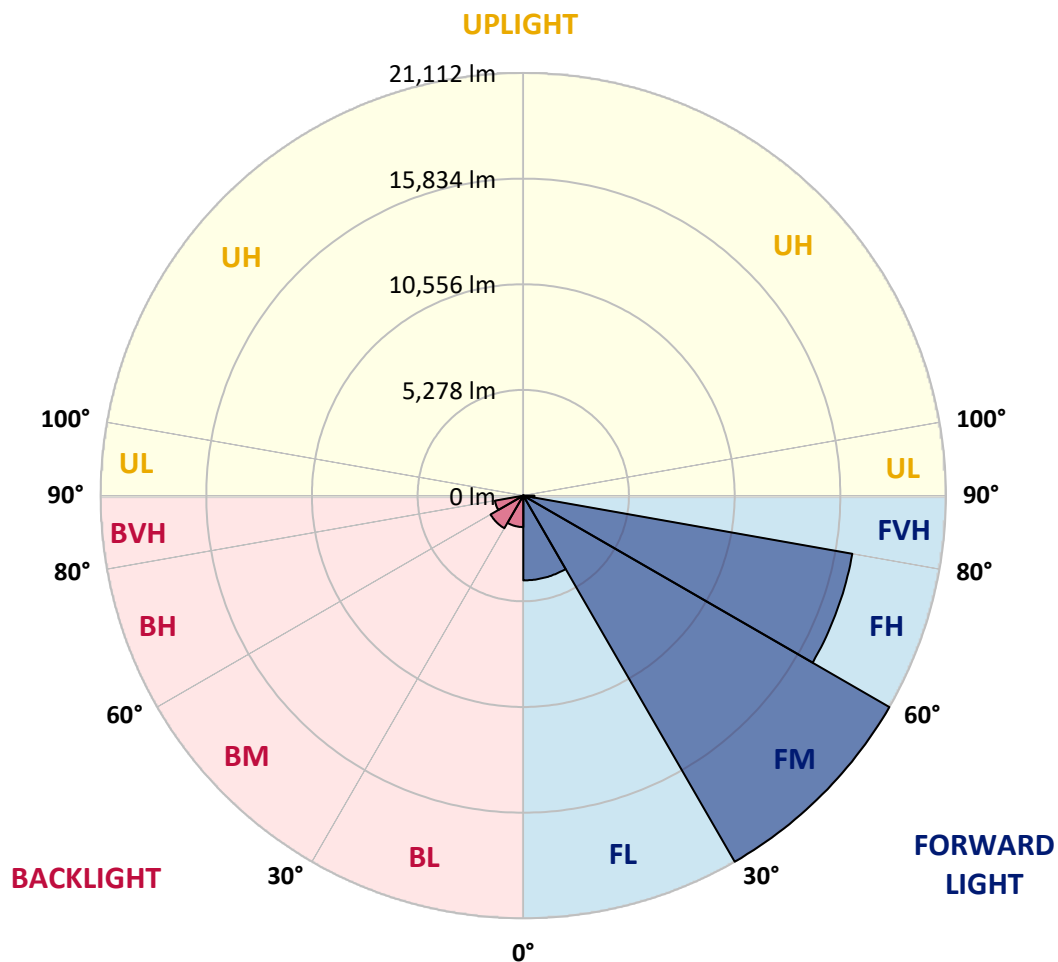
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4232.9	8.9			
FM (30°-60°)	21112.3	44.4			
FH (60°-80°)	16687.4	35.1			G5
FVH (80°-90°)	559.7	1.2			G4/750
BL (0°-30°)	1571.5	3.3	B3/2500		
BM (30°-60°)	1884.1	4.0	B2/2500		
BH (60°-80°)	1438.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	18.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2
2.5°	11871.6	11884.4	11900.5	11922.9	11939.0	11890.9	11823.5	11746.5	11730.4	11566.8	11367.9
5°	11236.3	11255.6	11396.7	11473.7	11647.0	11804.2	11903.7	11916.5	11910.1	11756.1	11438.4
7.5°	10331.5	10386.0	10524.0	10658.8	10982.8	11281.2	11634.2	11881.2	11897.3	11855.6	11460.9
10°	9596.7	9632.0	9702.6	9968.9	10238.5	10694.1	11188.2	11653.4	11691.9	11858.8	11441.7
12.5°	9022.4	9073.8	9160.4	9365.7	9689.8	10119.7	10681.2	11306.9	11387.1	11797.8	11387.1
15°	8621.3	8647.0	8733.6	8935.8	9250.2	9648.1	10216.0	10944.3	11014.9	11717.6	11377.5
17.5°	8432.0	8460.9	8521.9	8682.3	8942.2	9311.2	9866.3	10652.4	10742.2	11666.3	11412.8
20°	8483.4	8509.1	8512.3	8595.7	8772.2	9083.4	9609.6	10379.6	10495.1	11634.2	11470.5
22.5°	8775.4	8778.6	8740.1	8701.6	8762.5	8987.1	9452.4	10206.4	10325.1	11627.8	11537.9
25°	9211.7	9221.3	9157.2	9022.4	8900.5	9016.0	9417.1	10094.1	10200.0	11611.7	11579.6
27.5°	9814.9	9811.7	9792.5	9567.9	9221.3	9144.3	9445.9	10033.1	10122.9	11566.8	11595.7
30°	10658.8	10633.1	10591.4	10337.9	9808.5	9455.6	9567.9	9994.6	10078.0	11502.6	11554.0
32.5°	11489.8	11586.0	11579.6	11339.0	10678.0	10010.6	9821.3	10045.9	10106.9	11460.9	11493.0
35°	12458.8	12455.6	12702.6	12612.8	11839.5	10719.7	10254.5	10216.0	10264.1	11489.8	11464.1
37.5°	13357.2	13440.6	13825.6	13918.7	13212.8	11720.8	10867.3	10581.8	10597.8	11685.5	11534.7
40°	14476.9	14637.4	15211.7	15522.9	14900.5	13206.4	11772.1	11252.4	11255.6	12166.8	11801.0
42.5°	15920.8	16174.3	16710.1	17229.9	16896.2	14964.6	13129.3	12314.4	12308.0	13013.8	12410.6
45°	17675.9	17852.3	18461.9	19286.5	19074.8	17419.2	15105.8	13960.4	13876.9	14403.1	13491.9
47.5°	19190.3	19430.9	20050.2	20990.3	21952.8	20415.9	17467.3	16222.4	16167.8	16613.8	15346.5
50°	19851.2	20063.0	20714.3	22033.1	24365.7	24349.6	20983.9	19524.0	19430.9	19671.6	18214.9
52.5°	19126.1	19325.0	19982.8	21625.6	25501.5	29143.2	26079.0	23666.2	23553.9	23245.9	21641.6
55°	16642.7	16806.3	17778.5	19665.1	25065.1	32338.9	33099.3	28783.8	28347.5	27150.7	25520.7
57.5°	13251.3	13167.9	13771.1	15962.5	22504.7	33410.5	40305.7	35159.2	34379.5	30526.1	28803.1
60°	9182.8	9439.5	9683.4	11127.2	16921.8	31552.8	44788.0	43174.1	42147.4	33846.9	31947.4
62.5°	6750.8	6920.8	7081.3	7748.6	10639.5	25193.5	45580.5	51407.2	50496.0	37373.1	34947.4
65°	5339.0	5351.8	5416.0	6073.8	7010.7	16382.8	41772.0	56050.0	55815.8	40767.7	36163.5
66°	4864.1	4867.4	4966.8	5672.7	6291.9	13341.1	38720.7	56402.9	56531.3	41582.7	35807.3
67.5°	4251.3	4238.5	4382.9	5098.4	5730.5	9619.2	33259.7	54971.9	55732.4	42208.4	34527.1
70°	3295.2	3279.1	3455.6	4277.0	5278.0	6417.1	22106.8	47200.8	48426.5	40928.1	30548.5
72.5°	2194.6	2207.5	2509.1	3375.4	5037.4	5650.2	13299.4	35906.8	37639.4	33798.8	24032.0
75°	1280.2	1302.7	1646.0	2509.1	4373.2	5387.1	7527.2	25604.2	26711.1	23338.9	14971.1
77.5°	670.6	680.2	920.9	1655.6	3352.9	5002.1	5014.9	16357.1	16876.9	11342.2	5926.2
80°	356.1	346.5	494.1	997.9	2306.9	4392.5	4068.4	8659.9	9003.2	3369.0	1498.4
82.5°	134.8	147.6	263.1	654.5	1363.6	3154.0	3503.7	3827.8	3709.1	741.2	628.9
85°	25.7	32.1	112.3	388.2	686.6	1318.7	2582.9	1877.0	1739.0	279.1	362.6
87.5°	3.2	6.4	32.1	93.0	99.5	446.0	763.6	519.8	449.2	102.7	150.8
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°	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2	11265.2
2.5°	11271.6	11185.0	10896.2	10610.6	10318.7	10055.6	9875.9	9583.9	9510.1	9404.2	9343.3
5°	11249.1	11047.0	10491.9	9885.5	9320.8	8711.2	8246.0	7796.8	7556.1	7434.2	7389.3
7.5°	11185.0	10864.1	9997.8	9048.1	8143.3	7232.1	6439.5	5836.3	5448.1	5181.8	5002.1
10°	11056.6	10613.9	9423.5	8117.6	6750.8	5547.6	4543.3	3779.7	3189.3	3003.2	3009.6
12.5°	10925.1	10334.7	8781.8	7084.5	5390.3	3872.7	2807.5	2204.3	1921.9	1828.9	1809.6
15°	10803.2	10068.4	8152.9	6083.4	4013.9	2509.1	1809.6	1597.9	1520.8	1504.8	1501.6
17.5°	10739.0	9821.3	7482.3	4937.9	2801.1	1703.7	1450.3	1392.5	1370.0	1354.0	1347.6
20°	10684.4	9606.4	6840.6	3866.3	1915.5	1395.7	1299.5	1244.9	1206.4	1190.4	1180.7
22.5°	10645.9	9385.0	6176.4	2993.6	1466.3	1238.5	1151.9	1081.3	1026.7	1007.5	994.6
25°	10588.2	9141.1	5505.9	2188.2	1235.3	1100.5	1001.1	917.6	847.1	811.8	805.3
27.5°	10504.8	8865.2	4771.1	1620.3	1103.7	978.6	856.7	754.0	683.4	644.9	648.1
30°	10370.0	8576.4	4036.3	1286.6	997.9	853.5	721.9	622.5	555.1	526.2	523.0
32.5°	10209.6	8226.7	3362.6	1103.7	901.6	741.2	603.2	516.6	465.2	442.8	439.6
35°	10058.8	7873.8	2675.9	991.4	802.1	638.5	506.9	433.2	394.7	375.4	378.6
37.5°	9975.4	7559.3	2085.6	901.6	721.9	548.7	436.4	372.2	336.9	320.9	317.6
40°	10029.9	7302.6	1658.8	821.4	632.1	471.7	375.4	320.9	285.6	263.1	263.1
42.5°	10286.6	7190.3	1338.0	744.4	548.7	407.5	327.3	275.9	237.4	215.0	218.2
45°	11069.5	7309.1	1119.8	673.8	471.7	352.9	282.4	227.8	192.5	176.5	173.3
47.5°	12368.9	7755.0	969.0	600.0	404.3	301.6	237.4	189.3	154.0	141.2	138.0
50°	14640.6	8675.9	856.7	526.2	343.3	256.7	195.7	150.8	121.9	109.1	109.1
52.5°	17765.7	10684.4	776.5	442.8	288.8	218.2	160.4	121.9	96.3	86.6	83.4
55°	21032.0	12802.1	734.8	372.2	240.6	179.7	128.3	96.3	73.8	64.2	61.0
57.5°	24173.1	14464.1	686.6	301.6	192.5	138.0	99.5	73.8	51.3	44.9	41.7
60°	27186.0	15808.5	584.0	240.6	150.8	99.5	73.8	51.3	35.3	28.9	28.9
62.5°	29881.1	16591.4	458.8	192.5	115.5	70.6	48.1	38.5	25.7	19.3	19.3
65°	30195.6	15574.3	346.5	147.6	83.4	44.9	28.9	28.9	19.3	12.8	12.8
66°	29563.5	14711.2	304.8	134.8	73.8	38.5	25.7	22.5	16.0	9.6	9.6
67.5°	28151.7	13238.4	263.1	115.5	61.0	28.9	19.3	19.3	12.8	6.4	6.4
70°	24323.9	10812.8	208.6	86.6	44.9	22.5	12.8	12.8	9.6	6.4	6.4
72.5°	18539.0	8072.7	170.1	64.2	32.1	16.0	9.6	9.6	9.6	6.4	6.4
75°	11181.8	4347.6	131.6	48.1	28.9	12.8	6.4	9.6	12.8	9.6	6.4
77.5°	4119.8	1479.1	102.7	38.5	22.5	12.8	6.4	6.4	12.8	9.6	9.6
80°	1010.7	385.0	73.8	32.1	22.5	12.8	6.4	6.4	12.8	12.8	12.8
82.5°	468.4	163.6	51.3	28.9	22.5	12.8	6.4	6.4	9.6	12.8	12.8
85°	269.5	77.0	41.7	32.1	22.5	12.8	6.4	6.4	9.6	12.8	12.8
87.5°	109.1	38.5	38.5	32.1	25.7	16.0	6.4	6.4	6.4	9.6	9.6
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)