

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: P458358

Luminaire Tested: **GALN-SA9D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458358
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-SA9D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 51135 lumens
Efficiency: N/A
Efficacy: 92.6 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

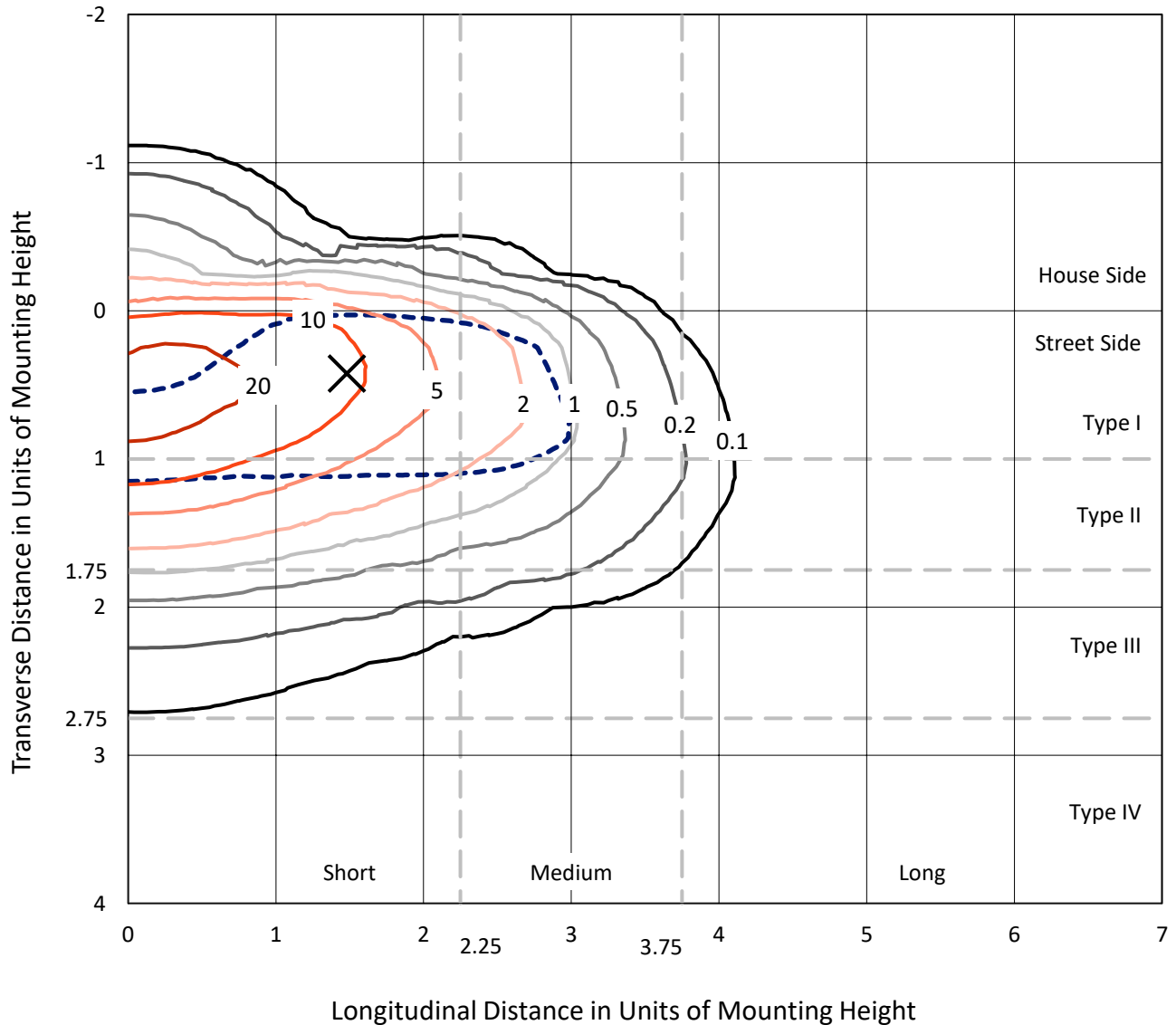
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

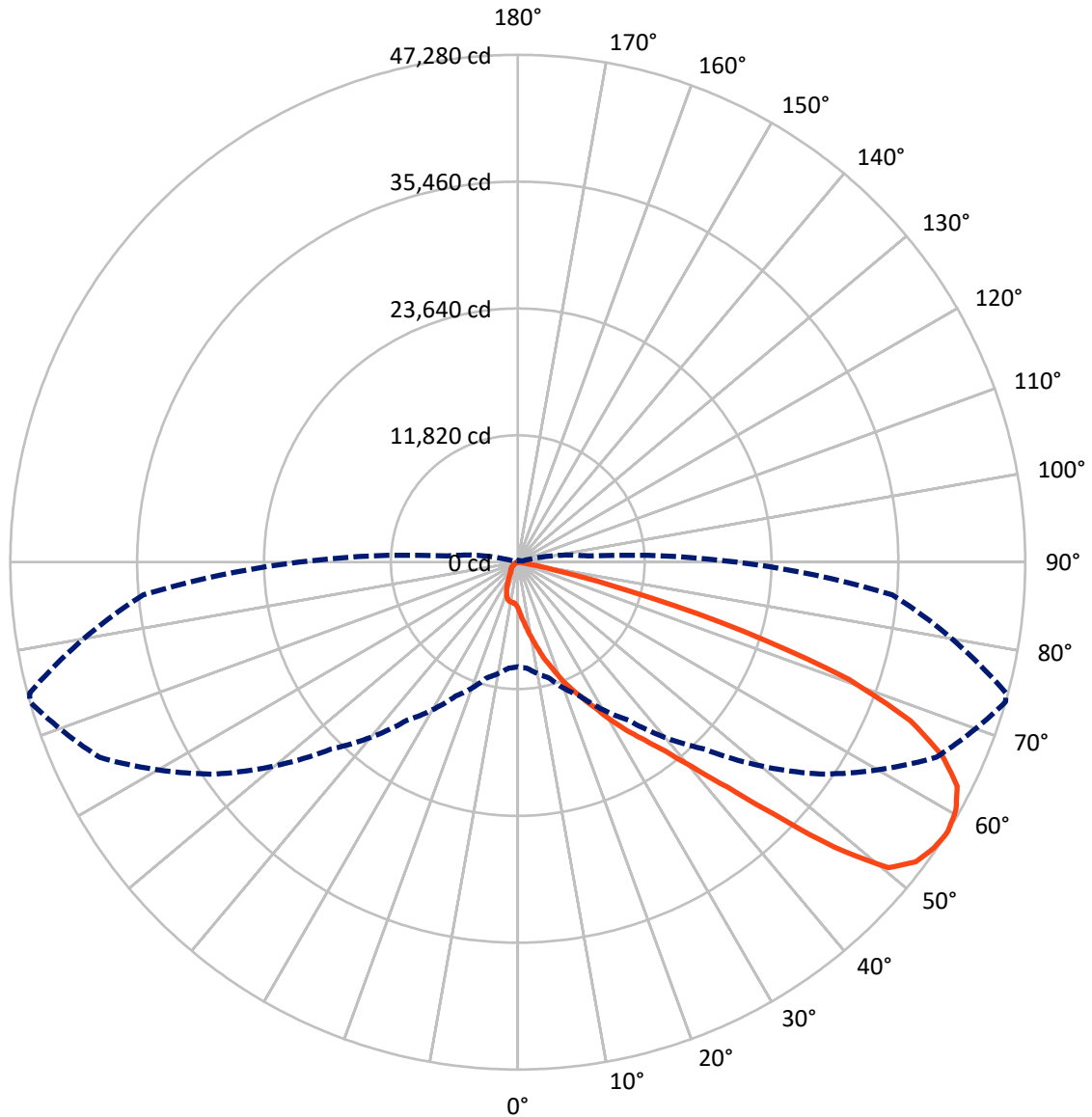
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 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	2949.3	0.0	2949.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	48185.7	0.0	48185.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	51135.0	0.0	51135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.9	1.0
10°-20°	2037.4	4.0
20°-30°	4359.6	8.5
30°-40°	8012.9	15.7
40°-50°	12284.0	24.0
50°-60°	12994.8	25.4
60°-70°	8485.9	16.6
70°-80°	2318.7	4.5
80°-90°	124.8	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°	51135.0	100.0
0°-180°	51135.0	100.0

Coefficient of Utilization



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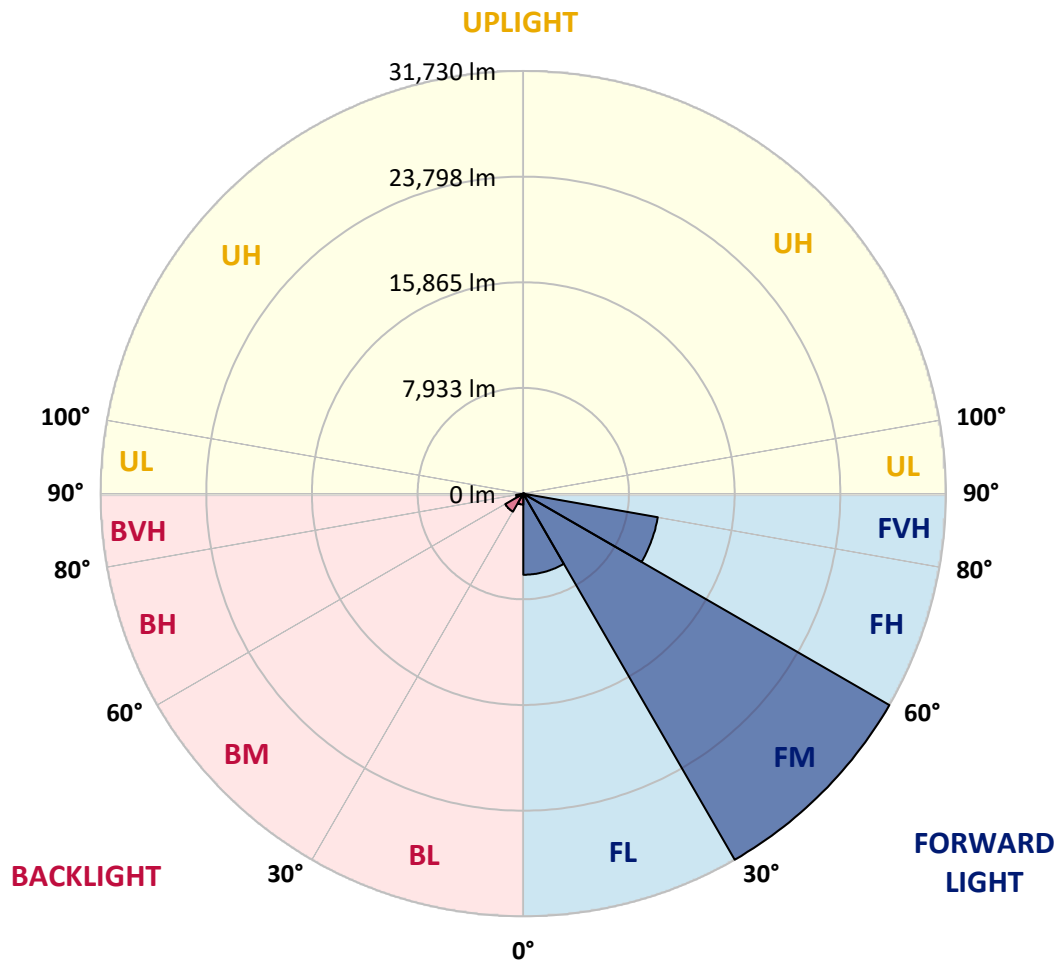
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6090.1	11.9			
FM	(30°-60°)	31730.2	62.1			
FH	(60°-80°)	10250.9	20.0			G4/12000
FVH	(80°-90°)	114.5	0.2			G2/225
BL	(0°-30°)	823.8	1.6	B2/1000		
BM	(30°-60°)	1561.4	3.1	B2/2500		
BH	(60°-80°)	553.7	1.1	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5
2.5°	6266.6	6210.1	6097.2	6058.3	5892.4	5634.7	5408.7	5105.1	4865.0	4840.3	4550.8
5°	8392.0	8264.9	8211.9	7957.7	7558.8	7184.6	6542.0	6054.8	5493.4	5451.1	4868.6
7.5°	10439.7	10263.1	10210.2	9970.1	9504.1	8914.5	8081.3	7195.1	6305.5	6224.3	5295.7
10°	11922.5	11947.2	11851.9	11693.0	11315.2	10715.1	9687.7	8476.7	7209.3	7106.9	5775.9
12.5°	12985.2	12981.6	12999.3	12995.7	12794.5	12339.1	11258.7	9864.2	8204.9	8003.6	6326.6
15°	13677.1	13687.7	13740.7	13924.3	13945.5	13663.0	12762.7	11191.7	9359.3	9108.7	6923.3
17.5°	14376.2	14450.3	14535.0	14708.0	14863.4	14750.4	14114.9	12575.6	10404.4	10217.3	7562.3
20°	15530.6	15633.0	15583.6	15689.5	15770.7	15781.3	15290.6	13853.7	11671.8	11357.6	8293.1
22.5°	17377.1	17373.6	17246.5	17055.8	16896.9	16889.9	16445.0	15167.0	12822.8	12519.1	9027.5
25°	19710.7	19721.3	19474.2	18930.5	18535.1	18051.4	17539.5	16317.9	14054.9	13680.7	9800.7
27.5°	22386.9	22319.8	21945.6	21197.1	20413.3	19587.2	18849.3	17656.0	15361.2	15050.5	10686.8
30°	24791.1	24766.4	24328.6	23414.2	22383.3	21553.7	20483.9	19333.0	17052.3	16671.0	11678.9
32.5°	27029.5	27064.8	26457.5	25511.4	24515.8	23559.0	22429.2	20935.8	18711.6	18171.5	12759.2
35°	28777.1	28812.4	28183.9	27396.6	26372.8	25578.4	24501.6	22644.6	20349.8	19894.3	14001.9
37.5°	29709.1	29755.0	29391.4	28798.2	28159.2	27760.3	26757.6	24844.1	22341.0	22065.6	15470.6
40°	29885.6	29938.6	29779.7	29620.8	29585.5	29871.5	29578.5	27435.5	25101.8	24671.1	17659.5
42.5°	29356.1	29426.7	29497.3	29850.3	30570.6	31619.1	32639.4	30951.8	28657.0	28078.0	20335.6
45°	27965.0	27958.0	28236.9	29151.3	30764.7	33003.1	35838.0	35354.4	33500.9	32812.4	24116.8
47.5°	25585.5	25550.2	26153.9	27456.7	29970.4	33257.3	38447.1	40699.5	39682.8	39047.3	28180.4
50°	21959.7	22132.7	23082.4	24900.6	27996.8	32487.6	39252.0	44205.3	44756.1	44081.8	31463.8
52.5°	17712.5	17705.4	19195.3	21663.1	25073.6	30793.0	38690.7	44840.8	46404.8	45889.4	33080.7
55°	13108.7	13200.5	14750.4	17239.4	21278.3	27700.3	36858.4	44187.7	47033.2	46669.6	34146.9
57°	9751.2	9913.6	11156.4	13790.1	17973.7	24639.3	34418.8	43019.1	47280.4	47082.7	35033.1
57.5°	9101.6	9108.7	10319.6	12713.3	17006.4	23463.7	33719.8	42531.9	47273.3	47163.9	35177.8
60°	5602.9	5779.4	6616.1	8593.2	12448.5	18312.7	29034.8	39732.2	46906.1	47065.0	35795.7
62.5°	3354.0	3428.1	3971.8	5179.2	8024.8	13366.5	23760.2	36148.7	45949.4	46433.1	35753.3
65°	2157.1	2174.8	2421.9	3135.1	5016.8	9034.5	18309.1	31414.3	43474.5	44364.2	34355.2
67.5°	1666.4	1694.6	1793.5	2058.3	2909.1	5627.6	12949.9	26362.2	39470.9	40618.3	30966.0
70°	1479.3	1493.4	1528.7	1613.4	1924.1	3177.4	8056.6	20593.4	32731.2	33056.0	24233.3
72.5°	1207.4	1246.3	1355.7	1384.0	1525.2	1984.1	4483.7	13821.9	21991.4	22072.7	13557.1
75°	935.6	942.6	1105.0	1186.2	1285.1	1366.3	2001.8	6969.2	10563.2	9998.4	5225.1
77.5°	699.0	730.8	805.0	907.3	1048.6	977.9	896.7	2626.7	3279.8	3219.8	1518.1
80°	448.4	466.0	561.3	681.4	815.5	639.0	504.9	769.6	720.2	741.4	363.6
82.5°	226.0	229.5	360.1	554.3	519.0	321.3	317.7	314.2	268.3	264.8	169.5
85°	24.7	53.0	233.0	317.7	233.0	105.9	148.3	144.8	141.2	144.8	98.9
87.5°	3.5	3.5	38.8	45.9	31.8	35.3	42.4	45.9	56.5	53.0	42.4
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°	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5	4282.5
2.5°	4409.6	4268.4	4007.1	3756.4	3569.3	3449.3	3294.0	3237.5	3156.3	3145.7	3106.8
5°	4600.2	4331.9	3876.5	3516.4	3226.9	3008.0	2817.3	2658.5	2531.4	2503.1	2517.2
7.5°	4872.1	4473.1	3837.6	3346.9	2944.4	2570.2	2266.6	2079.5	1945.3	1895.9	1902.9
10°	5179.2	4660.3	3830.6	3166.9	2552.5	2093.6	1761.7	1595.8	1518.1	1489.9	1458.1
12.5°	5542.9	4875.6	3812.9	2887.9	2121.8	1669.9	1433.4	1334.5	1260.4	1239.2	1239.2
15°	5952.4	5105.1	3728.2	2542.0	1722.9	1380.4	1221.6	1143.9	1119.2	1098.0	1098.0
17.5°	6379.6	5331.0	3551.7	2114.8	1429.9	1182.7	1083.9	1038.0	1002.7	977.9	977.9
20°	6866.8	5553.5	3269.2	1737.0	1207.4	1055.6	977.9	925.0	896.7	875.6	868.5
22.5°	7329.3	5733.5	2909.1	1426.3	1052.1	949.7	879.1	822.6	794.4	783.8	783.8
25°	7809.5	5843.0	2474.9	1179.2	960.3	861.4	783.8	737.9	713.2	706.1	702.6
27.5°	8275.5	5906.5	2093.6	1030.9	875.6	780.2	706.1	670.8	646.1	639.0	642.5
30°	8840.4	5917.1	1722.9	925.0	801.4	702.6	635.5	603.7	589.6	582.5	579.0
32.5°	9412.3	5903.0	1447.5	861.4	730.8	635.5	579.0	554.3	543.7	533.1	533.1
35°	10054.8	5828.8	1232.1	797.9	663.7	579.0	529.6	508.4	494.3	483.7	480.1
37.5°	10852.7	5790.0	1108.6	727.3	603.7	526.0	480.1	459.0	448.4	434.3	430.7
40°	12109.6	5963.0	1069.7	663.7	543.7	476.6	434.3	409.5	395.4	381.3	377.8
42.5°	13677.1	6266.6	1006.2	600.2	490.7	430.7	388.4	360.1	335.4	317.7	310.7
45°	15707.2	6665.6	907.3	533.1	444.8	381.3	342.5	307.2	275.4	261.3	257.7
47.5°	17836.1	7050.4	819.1	480.1	395.4	338.9	296.6	257.7	229.5	218.9	215.4
50°	19142.3	7128.1	762.6	420.1	346.0	293.0	250.7	215.4	197.7	187.1	187.1
52.5°	19739.0	7004.5	684.9	367.2	300.1	257.7	215.4	187.1	176.5	169.5	165.9
55°	20155.6	6813.9	582.5	317.7	257.7	218.9	190.6	169.5	155.3	148.3	144.8
57°	20399.2	6556.1	504.9	278.9	222.4	190.6	169.5	151.8	137.7	123.6	123.6
57.5°	20409.8	6457.3	483.7	275.4	211.8	183.6	165.9	148.3	130.6	116.5	113.0
60°	20095.6	5779.4	388.4	233.0	169.5	155.3	137.7	116.5	91.8	77.7	74.1
62.5°	19085.9	4918.0	321.3	197.7	137.7	120.0	98.9	88.3	63.5	45.9	45.9
65°	17557.1	3989.5	275.4	158.9	113.0	88.3	67.1	63.5	38.8	21.2	17.7
67.5°	15347.1	3106.8	233.0	130.6	95.3	63.5	45.9	42.4	21.2	7.1	0.0
70°	11693.0	2118.3	194.2	105.9	70.6	45.9	31.8	24.7	14.1	3.5	0.0
72.5°	6739.7	1165.1	162.4	81.2	53.0	35.3	24.7	14.1	14.1	0.0	0.0
75°	2407.8	501.3	123.6	60.0	42.4	28.2	17.7	7.1	10.6	3.5	0.0
77.5°	766.1	268.3	81.2	45.9	35.3	21.2	14.1	7.1	7.1	3.5	0.0
80°	226.0	141.2	49.4	38.8	24.7	17.7	10.6	3.5	7.1	3.5	0.0
82.5°	123.6	70.6	38.8	28.2	24.7	14.1	10.6	3.5	3.5	3.5	0.0
85°	63.5	42.4	31.8	28.2	24.7	14.1	10.6	3.5	0.0	3.5	3.5
87.5°	35.3	31.8	31.8	28.2	24.7	17.7	10.6	3.5	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)