

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: P454633

Luminaire Tested: **GALN-SA5D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454633
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-SA5D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 28875 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

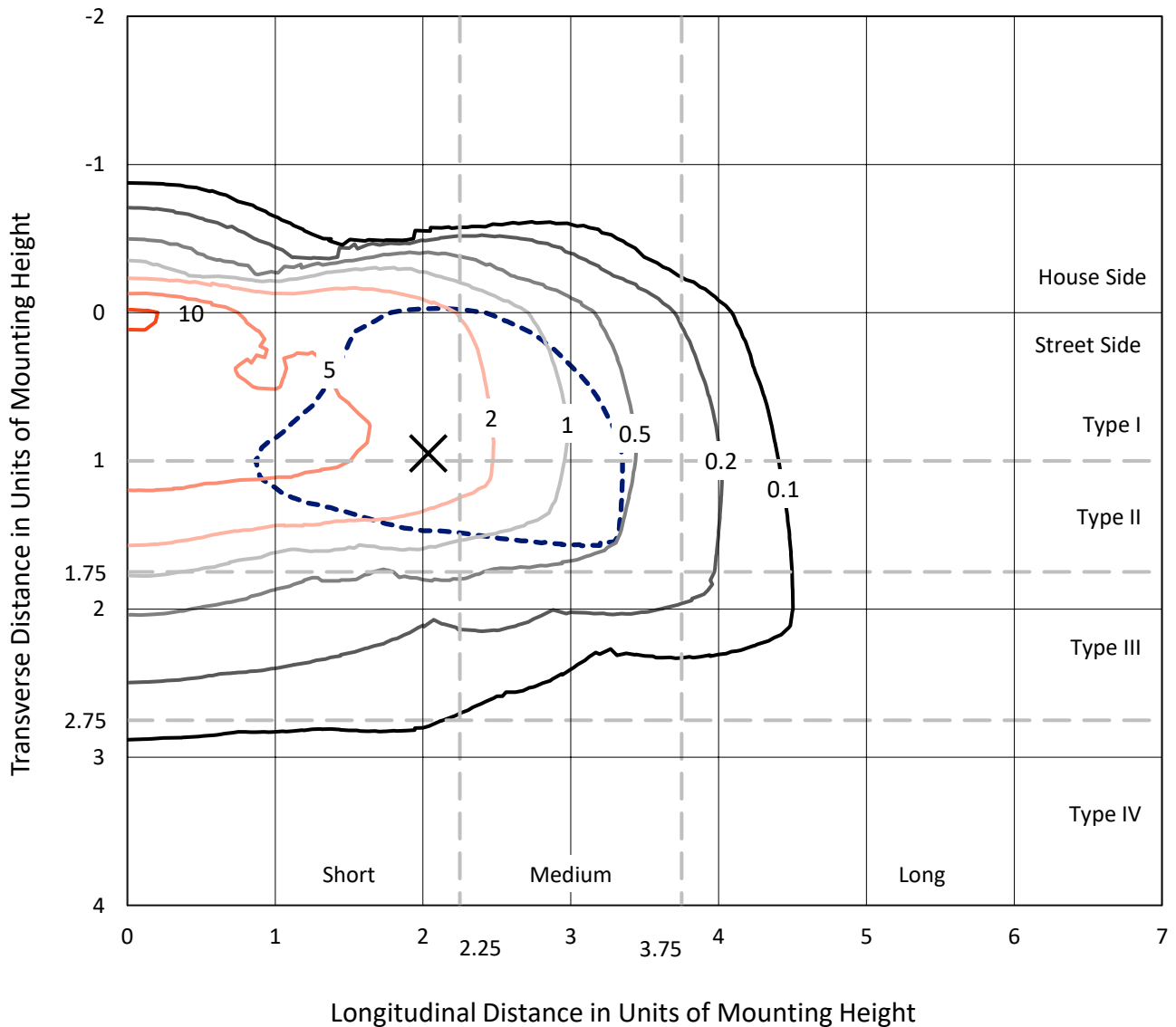
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

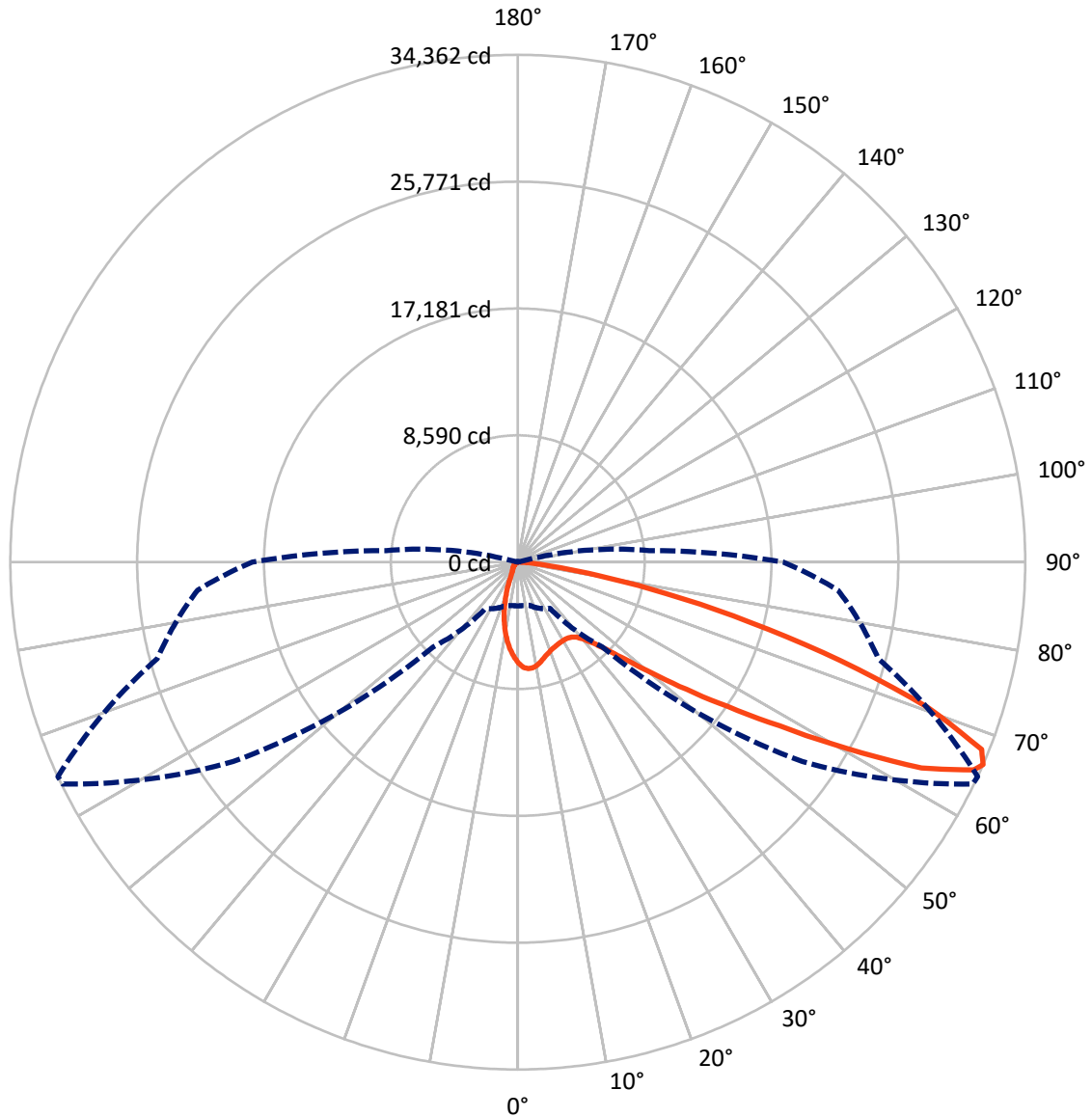
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	2986.1	0.0	2986.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25888.9	0.0	25888.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	28875.0	0.0	28875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.0	1.9
10°-20°	1220.2	4.2
20°-30°	1747.9	6.1
30°-40°	2553.0	8.8
40°-50°	4280.9	14.8
50°-60°	7144.1	24.7
60°-70°	7583.2	26.3
70°-80°	3434.4	11.9
80°-90°	351.4	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°	28875.0	100.0
0°-180°	28875.0	100.0

Coefficient of Utilization



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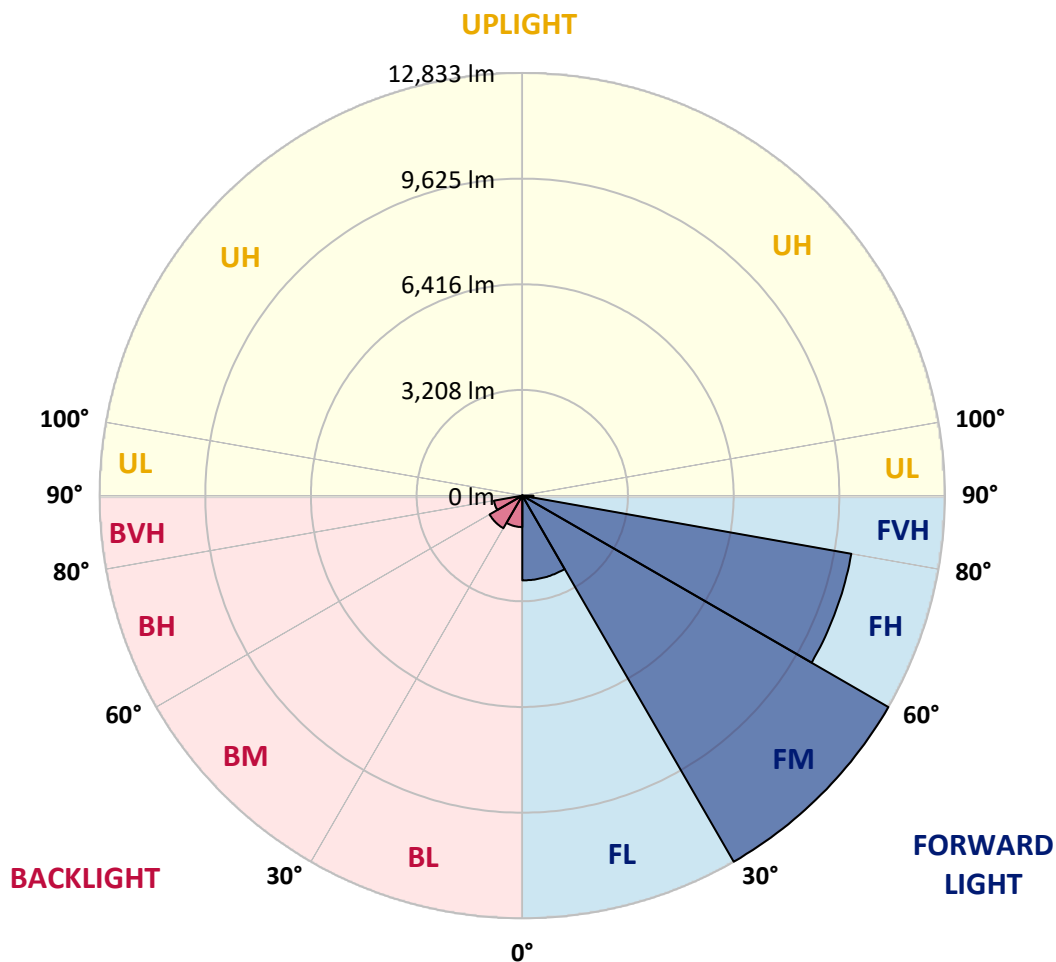
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2572.9	8.9			
FM	(30°-60°)	12832.7	44.4			
FH	(60°-80°)	10143.1	35.1			G4/12000
FVH	(80°-90°)	340.2	1.2			G3/500
BL	(0°-30°)	955.2	3.3	B2/1000		
BM	(30°-60°)	1145.2	4.0	B2/2500		
BH	(60°-80°)	874.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.2	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°	64°	65°	75°	85°
0°	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3
2.5°	7215.9	7223.7	7233.5	7247.1	7256.9	7227.6	7186.7	7139.9	7130.1	7030.7	6909.7
5°	6829.8	6841.5	6927.3	6974.1	7079.4	7175.0	7235.4	7243.2	7239.3	7145.7	6952.6
7.5°	6279.8	6313.0	6396.8	6478.7	6675.7	6857.1	7071.6	7221.8	7231.5	7206.2	6966.3
10°	5833.2	5854.7	5897.6	6059.4	6223.2	6500.2	6800.5	7083.3	7106.7	7208.1	6954.6
12.5°	5484.1	5515.3	5568.0	5692.8	5889.8	6151.1	6492.4	6872.7	6921.4	7171.1	6921.4
15°	5240.3	5255.9	5308.6	5431.4	5622.6	5864.4	6209.6	6652.3	6695.2	7122.3	6915.6
17.5°	5125.3	5142.8	5179.9	5277.4	5435.3	5659.6	5997.0	6474.8	6529.4	7091.1	6937.0
20°	5156.5	5172.1	5174.0	5224.7	5332.0	5521.2	5841.0	6309.1	6379.3	7071.6	6972.1
22.5°	5333.9	5335.9	5312.5	5289.1	5326.1	5462.6	5745.4	6203.7	6275.9	7067.7	7013.1
25°	5599.2	5605.0	5566.0	5484.1	5410.0	5480.2	5724.0	6135.5	6199.8	7058.0	7038.5
27.5°	5965.8	5963.9	5952.2	5815.6	5605.0	5558.2	5741.5	6098.4	6153.0	7030.7	7048.2
30°	6478.7	6463.1	6437.8	6283.7	5961.9	5747.4	5815.6	6075.0	6125.7	6991.6	7022.8
32.5°	6983.8	7042.4	7038.5	6892.2	6490.4	6084.8	5969.7	6106.2	6143.3	6966.3	6985.8
35°	7572.8	7570.9	7721.0	7666.4	7196.4	6515.8	6233.0	6209.6	6238.8	6983.8	6968.2
37.5°	8118.9	8169.6	8403.6	8460.2	8031.1	7124.3	6605.5	6431.9	6441.7	7102.8	7011.1
40°	8799.5	8897.0	9246.1	9435.3	9057.0	8027.2	7155.5	6839.5	6841.5	7395.3	7173.0
42.5°	9677.1	9831.2	10156.9	10472.8	10270.0	9096.0	7980.4	7485.1	7481.2	7910.2	7543.6
45°	10743.9	10851.2	11221.7	11723.0	11594.2	10587.9	9181.8	8485.5	8434.8	8754.7	8200.8
47.5°	11664.4	11810.7	12187.1	12758.5	13343.6	12409.4	10617.2	9860.5	9827.3	10098.4	9328.0
50°	12066.2	12194.9	12590.8	13392.4	14810.2	14800.4	12754.6	11867.3	11810.7	11957.0	11071.6
52.5°	11625.4	11746.4	12146.2	13144.7	15500.6	17714.1	15851.6	14385.0	14316.8	14129.6	13154.4
55°	10115.9	10215.4	10806.3	11953.1	15235.4	19656.6	20118.8	17495.7	17230.5	16503.0	15512.3
57.5°	8054.5	8003.8	8370.5	9702.5	13679.1	20308.0	24499.0	21370.8	20896.9	18554.7	17507.4
60°	5581.6	5737.6	5885.9	6763.5	10285.6	19178.8	27223.5	26242.6	25618.5	20573.2	19418.6
62.5°	4103.3	4206.7	4304.2	4709.9	6467.0	15313.4	27705.3	31246.9	30693.0	22716.5	21242.1
65°	3245.2	3253.0	3292.0	3691.8	4261.3	9958.0	25390.3	34068.9	33926.5	24779.9	21981.3
66°	2956.6	2958.5	3019.0	3448.0	3824.4	8109.1	23535.6	34283.4	34361.5	25275.2	21764.8
67.5°	2584.1	2576.3	2664.0	3098.9	3483.1	5846.8	20216.3	33413.6	33875.8	25655.5	20986.6
70°	2002.9	1993.2	2100.4	2599.7	3208.2	3900.5	13437.2	28690.1	29435.1	24877.4	18568.3
72.5°	1334.0	1341.8	1525.1	2051.7	3061.9	3434.4	8083.8	21825.2	22878.4	20543.9	14607.4
75°	778.1	791.8	1000.5	1525.1	2658.2	3274.5	4575.3	15563.0	16235.8	14186.1	9099.9
77.5°	407.6	413.5	559.7	1006.3	2038.0	3040.4	3048.2	9942.4	10258.3	6894.1	3602.1
80°	216.5	210.6	300.3	606.5	1402.2	2669.9	2472.9	5263.7	5472.4	2047.8	910.8
82.5°	81.9	89.7	159.9	397.9	828.9	1917.1	2129.7	2326.6	2254.5	450.5	382.2
85°	15.6	19.5	68.3	236.0	417.4	801.6	1570.0	1140.9	1057.0	169.7	220.4
87.5°	2.0	3.9	19.5	56.6	60.5	271.1	464.2	315.9	273.0	62.4	91.7
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°	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3	6847.3
2.5°	6851.2	6798.6	6623.0	6449.5	6272.0	6112.1	6002.9	5825.4	5780.5	5716.2	5679.1
5°	6837.6	6714.7	6377.3	6008.7	5665.5	5294.9	5012.1	4739.1	4592.8	4518.7	4491.4
7.5°	6798.6	6603.5	6077.0	5499.7	4949.7	4395.9	3914.2	3547.5	3311.5	3149.7	3040.4
10°	6720.6	6451.4	5727.9	4934.1	4103.3	3372.0	2761.6	2297.4	1938.5	1825.4	1829.3
12.5°	6640.6	6281.8	5337.8	4306.2	3276.4	2354.0	1706.5	1339.8	1168.2	1111.6	1099.9
15°	6566.5	6119.9	4955.6	3697.7	2439.8	1525.1	1099.9	971.2	924.4	914.7	912.7
17.5°	6527.5	5969.7	4548.0	3001.4	1702.6	1035.6	881.5	846.4	832.8	823.0	819.1
20°	6494.3	5839.0	4157.9	2350.1	1164.3	848.4	789.9	756.7	733.3	723.5	717.7
22.5°	6470.9	5704.5	3754.2	1819.6	891.3	752.8	700.1	657.2	624.1	612.4	604.6
25°	6435.8	5556.3	3346.6	1330.1	750.8	668.9	608.5	557.8	514.9	493.4	489.5
27.5°	6385.1	5388.5	2900.0	984.9	670.9	594.8	520.7	458.3	415.4	392.0	394.0
30°	6303.2	5213.0	2453.4	782.1	606.5	518.8	438.8	378.3	337.4	319.8	317.9
32.5°	6205.7	5000.4	2043.9	670.9	548.0	450.5	366.6	314.0	282.8	269.1	267.2
35°	6114.0	4785.9	1626.5	602.6	487.6	388.1	308.1	263.3	239.9	228.2	230.1
37.5°	6063.3	4594.8	1267.7	548.0	438.8	333.5	265.2	226.2	204.8	195.0	193.1
40°	6096.5	4438.8	1008.3	499.3	384.2	286.7	228.2	195.0	173.6	159.9	159.9
42.5°	6252.5	4370.5	813.3	452.5	333.5	247.7	198.9	167.7	144.3	130.7	132.6
45°	6728.4	4442.7	680.6	409.6	286.7	214.5	171.6	138.5	117.0	107.3	105.3
47.5°	7518.2	4713.8	589.0	364.7	245.7	183.3	144.3	115.1	93.6	85.8	83.9
50°	8899.0	5273.5	520.7	319.8	208.7	156.0	119.0	91.7	74.1	66.3	66.3
52.5°	10798.5	6494.3	472.0	269.1	175.5	132.6	97.5	74.1	58.5	52.7	50.7
55°	12783.9	7781.5	446.6	226.2	146.3	109.2	78.0	58.5	44.9	39.0	37.1
57.5°	14693.2	8791.7	417.4	183.3	117.0	83.9	60.5	44.9	31.2	27.3	25.4
60°	16524.5	9608.9	354.9	146.3	91.7	60.5	44.9	31.2	21.5	17.6	17.6
62.5°	18162.7	10084.7	278.9	117.0	70.2	42.9	29.3	23.4	15.6	11.7	11.7
65°	18353.8	9466.5	210.6	89.7	50.7	27.3	17.6	17.6	11.7	7.8	7.8
66°	17969.6	8941.9	185.3	81.9	44.9	23.4	15.6	13.7	9.8	5.9	5.9
67.5°	17111.5	8046.7	159.9	70.2	37.1	17.6	11.7	11.7	7.8	3.9	3.9
70°	14784.8	6572.3	126.8	52.7	27.3	13.7	7.8	7.8	5.9	3.9	3.9
72.5°	11268.5	4906.8	103.4	39.0	19.5	9.8	5.9	5.9	5.9	3.9	3.9
75°	6796.6	2642.6	80.0	29.3	17.6	7.8	3.9	5.9	7.8	5.9	3.9
77.5°	2504.1	899.1	62.4	23.4	13.7	7.8	3.9	3.9	7.8	5.9	5.9
80°	614.3	234.0	44.9	19.5	13.7	7.8	3.9	3.9	7.8	7.8	7.8
82.5°	284.7	99.5	31.2	17.6	13.7	7.8	3.9	3.9	5.9	7.8	7.8
85°	163.8	46.8	25.4	19.5	13.7	7.8	3.9	3.9	5.9	7.8	7.8
87.5°	66.3	23.4	23.4	19.5	15.6	9.8	3.9	3.9	3.9	5.9	5.9
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)