

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: P455329

Luminaire Tested: **GALN-SA6C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455329
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-SA6C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 31074 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

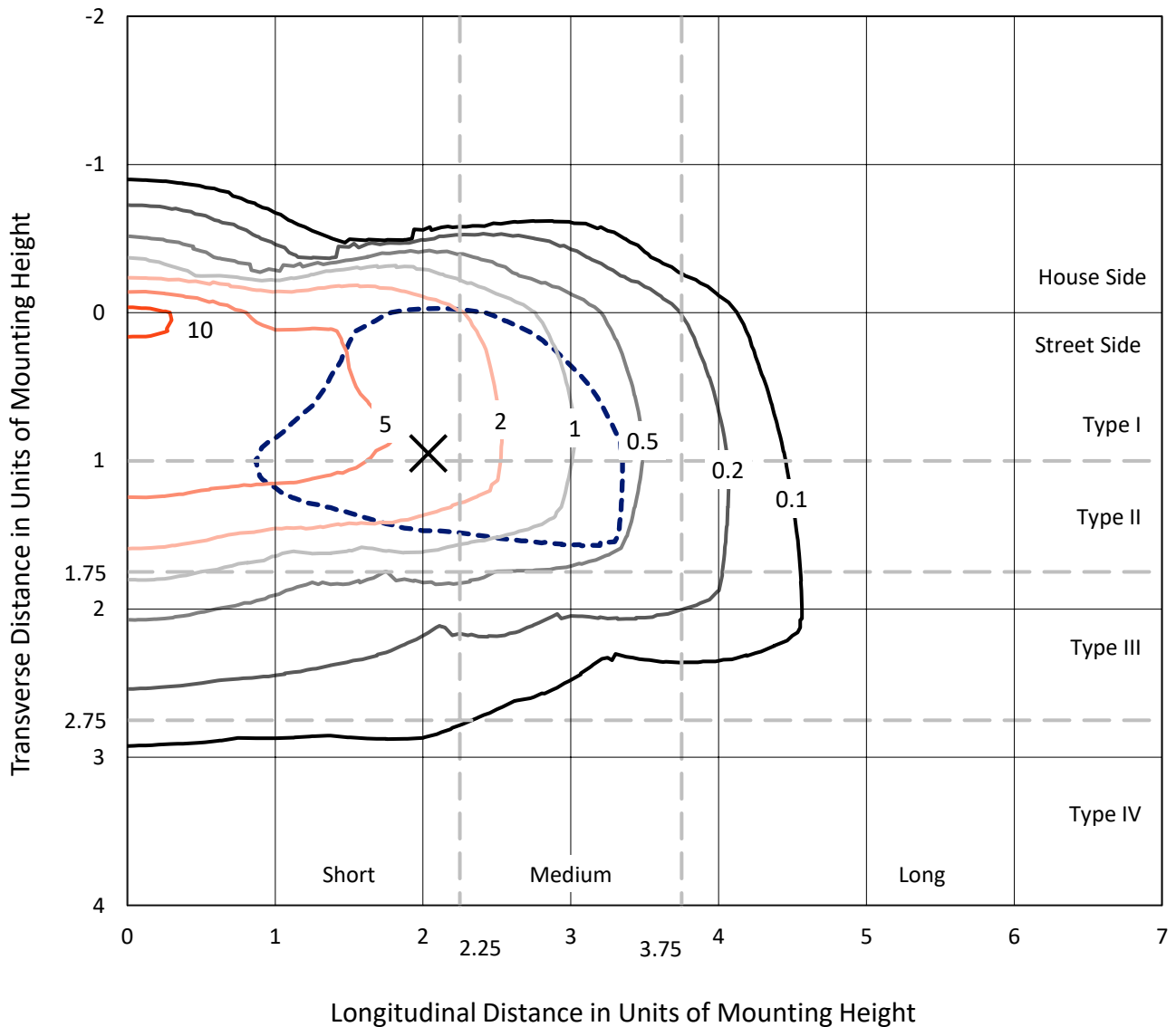
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

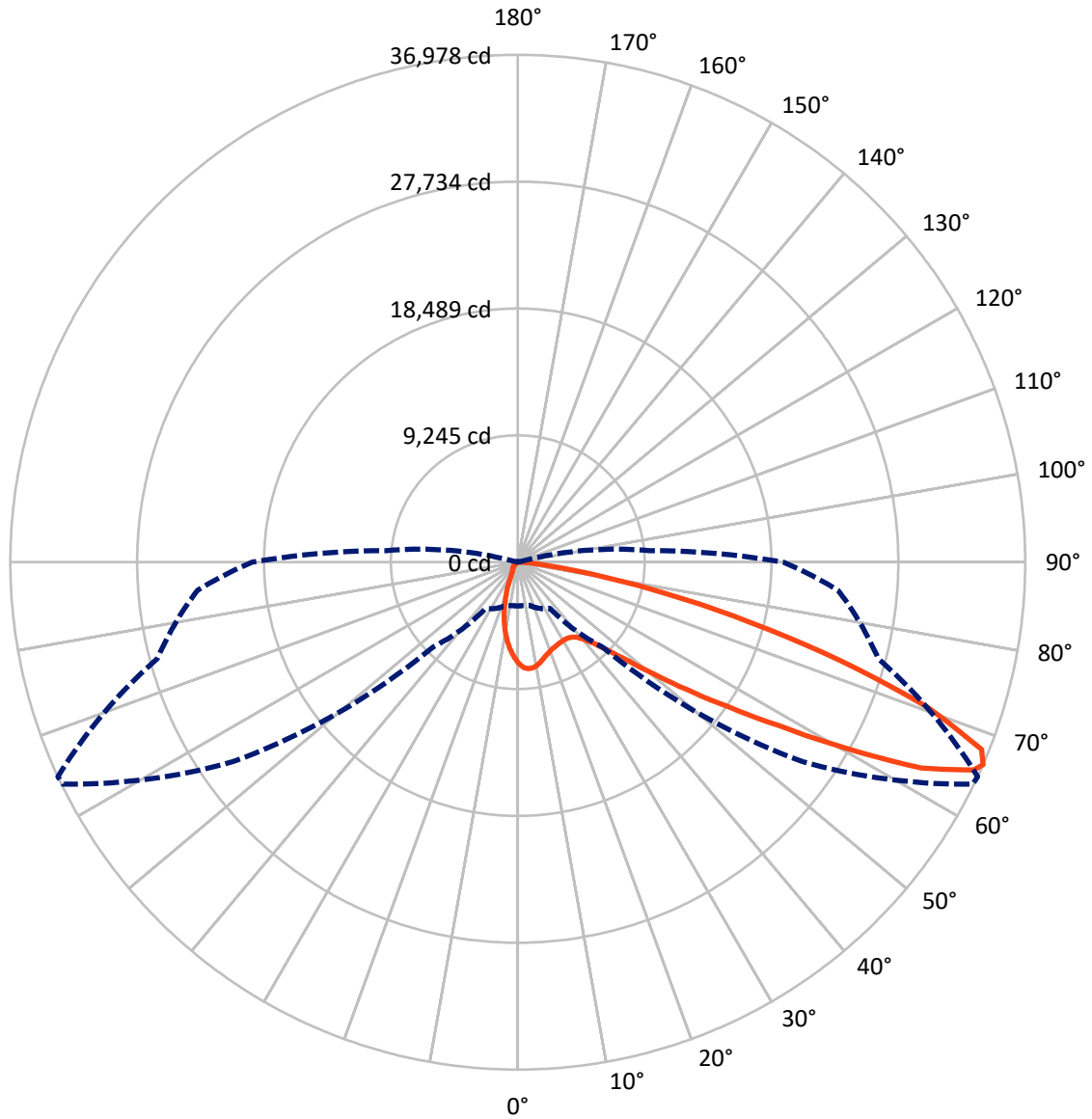
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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	3213.5	0.0	3213.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27860.5	0.0	27860.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	31074.0	0.0	31074.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.7	1.9
10°-20°	1313.1	4.2
20°-30°	1881.0	6.1
30°-40°	2747.4	8.8
40°-50°	4606.9	14.8
50°-60°	7688.1	24.7
60°-70°	8160.7	26.3
70°-80°	3696.0	11.9
80°-90°	378.2	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°	31074.0	100.0
0°-180°	31074.0	100.0

Coefficient of Utilization



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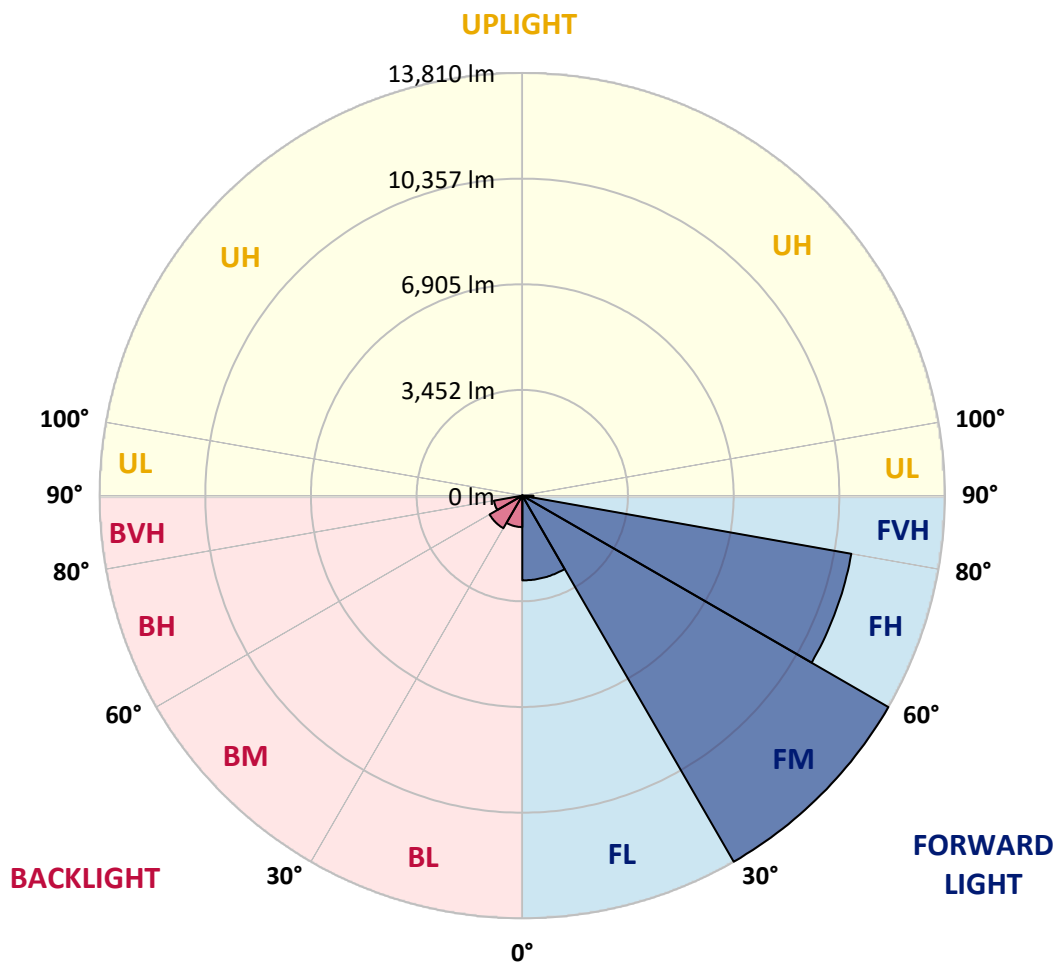
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2768.8	8.9			
FM (30°-60°)	13810.0	44.4			
FH (60°-80°)	10915.6	35.1			G4/12000
FVH (80°-90°)	366.1	1.2			G3/500
BL (0°-30°)	1028.0	3.3	B3/2500		
BM (30°-60°)	1232.4	4.0	B2/2500		
BH (60°-80°)	941.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	12.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8
2.5°	7765.5	7773.9	7784.3	7799.0	7809.5	7778.1	7734.0	7683.6	7673.1	7566.1	7436.0
5°	7349.9	7362.5	7454.8	7505.2	7618.5	7721.4	7786.4	7794.8	7790.6	7689.9	7482.1
7.5°	6758.0	6793.7	6884.0	6972.1	7184.1	7379.3	7610.2	7771.8	7782.2	7755.0	7496.8
10°	6277.4	6300.5	6346.7	6520.9	6697.2	6995.2	7318.4	7622.7	7647.9	7757.1	7484.2
12.5°	5901.7	5935.3	5992.0	6126.3	6338.3	6619.5	6986.8	7396.1	7448.5	7717.2	7448.5
15°	5639.4	5656.2	5712.9	5845.1	6050.8	6311.0	6682.5	7158.9	7205.1	7664.7	7442.2
17.5°	5515.6	5534.5	5574.3	5679.3	5849.3	6090.6	6453.7	6967.9	7026.7	7631.1	7465.3
20°	5549.2	5565.9	5568.0	5622.6	5738.0	5941.6	6285.8	6789.5	6865.1	7610.2	7503.1
22.5°	5740.1	5742.2	5717.1	5691.9	5731.7	5878.7	6183.0	6676.2	6753.9	7606.0	7547.2
25°	6025.6	6031.9	5989.9	5901.7	5822.0	5897.6	6159.9	6602.7	6672.0	7595.5	7574.5
27.5°	6420.1	6418.0	6405.5	6258.5	6031.9	5981.5	6178.8	6562.9	6621.6	7566.1	7585.0
30°	6972.1	6955.3	6928.0	6762.2	6415.9	6185.1	6258.5	6537.7	6592.2	7524.1	7557.7
32.5°	7515.7	7578.7	7574.5	7417.1	6984.7	6548.2	6424.3	6571.3	6611.1	7496.8	7517.8
35°	8149.5	8147.4	8309.0	8250.3	7744.5	7012.0	6707.7	6682.5	6714.0	7515.7	7498.9
37.5°	8737.2	8791.8	9043.6	9104.5	8642.7	7666.8	7108.5	6921.8	6932.2	7643.7	7545.1
40°	9469.7	9574.6	9950.3	10153.9	9746.7	8638.5	7700.4	7360.4	7362.5	7958.5	7719.3
42.5°	10414.1	10579.9	10930.4	11270.4	11052.1	9788.7	8588.2	8055.1	8050.9	8512.6	8118.1
45°	11562.1	11677.6	12076.3	12615.7	12477.2	11394.2	9881.0	9131.8	9077.2	9421.4	8825.3
47.5°	12552.8	12710.2	13115.2	13730.2	14359.8	13354.5	11425.7	10611.4	10575.7	10867.4	10038.4
50°	12985.1	13123.6	13549.7	14412.3	15938.1	15927.6	13726.0	12771.0	12710.2	12867.6	11914.7
52.5°	12510.8	12640.9	13071.2	14145.7	16681.0	19063.2	17058.8	15480.5	15407.1	15205.6	14156.2
55°	10886.3	10993.4	11629.3	12863.4	16395.6	21153.5	21650.9	18828.1	18542.7	17759.8	16693.6
57.5°	8667.9	8613.4	9007.9	10441.4	14720.8	21854.5	26364.8	22998.4	22488.4	19967.7	18840.7
60°	6006.7	6174.6	6334.1	7278.5	11068.9	20639.3	29296.8	28241.1	27569.5	22140.0	20897.5
62.5°	4415.8	4527.1	4632.0	5068.5	6959.5	16479.6	29815.2	33626.5	33030.5	24446.5	22859.8
65°	3492.4	3500.8	3542.7	3973.0	4585.8	10716.3	27323.9	36663.5	36510.3	26667.0	23655.3
66°	3181.7	3183.8	3248.9	3710.6	4115.7	8726.7	25328.0	36894.3	36978.3	27200.1	23422.3
67.5°	2780.9	2772.5	2866.9	3335.0	3748.4	6292.1	21755.9	35958.3	36455.7	27609.4	22584.9
70°	2155.4	2144.9	2260.4	2797.7	3452.5	4197.5	14460.5	30875.0	31676.8	26771.9	19982.4
72.5°	1435.6	1444.0	1641.2	2207.9	3295.1	3695.9	8699.4	23487.4	24620.7	22108.5	15719.8
75°	837.4	852.1	1076.7	1641.2	2860.6	3523.8	4923.7	16748.2	17472.3	15266.5	9792.9
77.5°	438.6	444.9	602.3	1083.0	2193.2	3272.0	3280.4	10699.5	11039.5	7419.2	3876.4
80°	233.0	226.7	323.2	652.7	1509.0	2873.2	2661.2	5664.6	5889.2	2203.7	980.1
82.5°	88.1	96.5	172.1	428.1	892.0	2063.1	2291.9	2503.8	2426.2	484.8	411.4
85°	16.8	21.0	73.5	254.0	449.1	862.6	1689.5	1227.8	1137.5	182.6	237.2
87.5°	2.1	4.2	21.0	60.9	65.1	291.7	499.5	340.0	293.8	67.2	98.6
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°	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8	7368.8
2.5°	7373.0	7316.3	7127.4	6940.6	6749.7	6577.6	6460.0	6269.0	6220.8	6151.5	6111.6
5°	7358.3	7226.1	6863.0	6466.3	6096.9	5698.2	5393.8	5100.0	4942.6	4862.9	4833.5
7.5°	7316.3	7106.4	6539.8	5918.5	5326.7	4730.6	4212.2	3817.7	3563.7	3389.5	3272.0
10°	7232.4	6942.7	6164.1	5309.9	4415.8	3628.8	2971.9	2472.4	2086.2	1964.5	1968.6
12.5°	7146.3	6760.1	5744.3	4634.1	3525.9	2533.2	1836.4	1441.9	1257.2	1196.3	1183.7
15°	7066.6	6585.9	5333.0	3979.3	2625.6	1641.2	1183.7	1045.2	994.8	984.3	982.2
17.5°	7024.6	6424.3	4894.3	3230.0	1832.2	1114.4	948.6	910.9	896.2	885.7	881.5
20°	6988.9	6283.7	4474.6	2529.0	1253.0	913.0	850.0	814.3	789.1	778.6	772.3
22.5°	6963.7	6138.9	4040.1	1958.2	959.1	810.1	753.5	707.3	671.6	659.0	650.6
25°	6926.0	5979.4	3601.5	1431.4	808.0	719.9	654.8	600.2	554.1	531.0	526.8
27.5°	6871.4	5798.9	3120.9	1059.9	722.0	640.1	560.4	493.2	447.0	421.9	424.0
30°	6783.2	5610.0	2640.3	841.6	652.7	558.3	472.2	407.2	363.1	344.2	342.1
32.5°	6678.3	5381.3	2199.5	722.0	589.8	484.8	394.6	337.9	304.3	289.6	287.5
35°	6579.7	5150.4	1750.4	648.5	524.7	417.7	331.6	283.3	258.1	245.6	247.7
37.5°	6525.1	4944.7	1364.2	589.8	472.2	358.9	285.4	243.5	220.4	209.9	207.8
40°	6560.8	4776.8	1085.1	537.3	413.5	308.5	245.6	209.9	186.8	172.1	172.1
42.5°	6728.7	4703.3	875.2	486.9	358.9	266.5	214.1	180.5	155.3	140.6	142.7
45°	7240.8	4781.0	732.5	440.7	308.5	230.9	184.7	149.0	125.9	115.4	113.3
47.5°	8090.8	5072.7	633.8	392.5	264.4	197.3	155.3	123.8	100.7	92.3	90.2
50°	9576.7	5675.1	560.4	344.2	224.6	167.9	128.0	98.6	79.8	71.4	71.4
52.5°	11620.9	6988.9	507.9	289.6	188.9	142.7	104.9	79.8	63.0	56.7	54.6
55°	13757.5	8374.1	480.6	243.5	157.4	117.5	84.0	63.0	48.3	42.0	39.9
57.5°	15812.2	9461.3	449.1	197.3	125.9	90.2	65.1	48.3	33.6	29.4	27.3
60°	17782.9	10340.7	382.0	157.4	98.6	65.1	48.3	33.6	23.1	18.9	18.9
62.5°	19545.9	10852.8	300.1	125.9	75.6	46.2	31.5	25.2	16.8	12.6	12.6
65°	19751.6	10187.4	226.7	96.5	54.6	29.4	18.9	18.9	12.6	8.4	8.4
66°	19338.1	9622.9	199.4	88.1	48.3	25.2	16.8	14.7	10.5	6.3	6.3
67.5°	18414.6	8659.5	172.1	75.6	39.9	18.9	12.6	12.6	8.4	4.2	4.2
70°	15910.8	7072.9	136.4	56.7	29.4	14.7	8.4	8.4	6.3	4.2	4.2
72.5°	12126.7	5280.5	111.2	42.0	21.0	10.5	6.3	6.3	6.3	4.2	4.2
75°	7314.2	2843.8	86.0	31.5	18.9	8.4	4.2	6.3	8.4	6.3	4.2
77.5°	2694.8	967.5	67.2	25.2	14.7	8.4	4.2	4.2	8.4	6.3	6.3
80°	661.1	251.9	48.3	21.0	14.7	8.4	4.2	4.2	8.4	8.4	8.4
82.5°	306.4	107.0	33.6	18.9	14.7	8.4	4.2	4.2	6.3	8.4	8.4
85°	176.3	50.4	27.3	21.0	14.7	8.4	4.2	4.2	6.3	8.4	8.4
87.5°	71.4	25.2	25.2	21.0	16.8	10.5	4.2	4.2	4.2	6.3	6.3
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)