

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: P459273

Luminaire Tested: **GALN-SA7C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459273
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-SA7C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 37333 lumens
Efficiency: N/A
Efficacy: 99.0 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

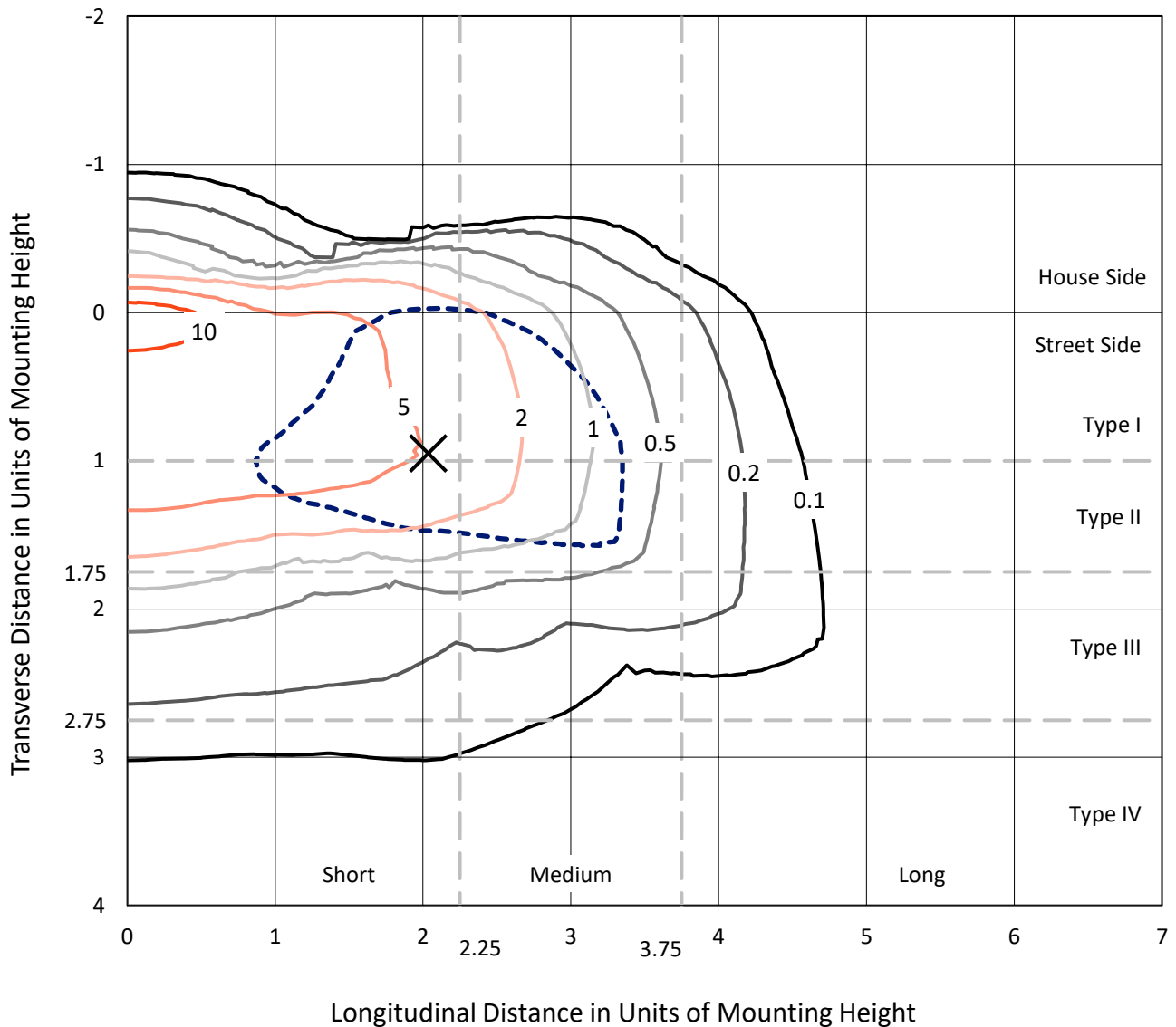
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

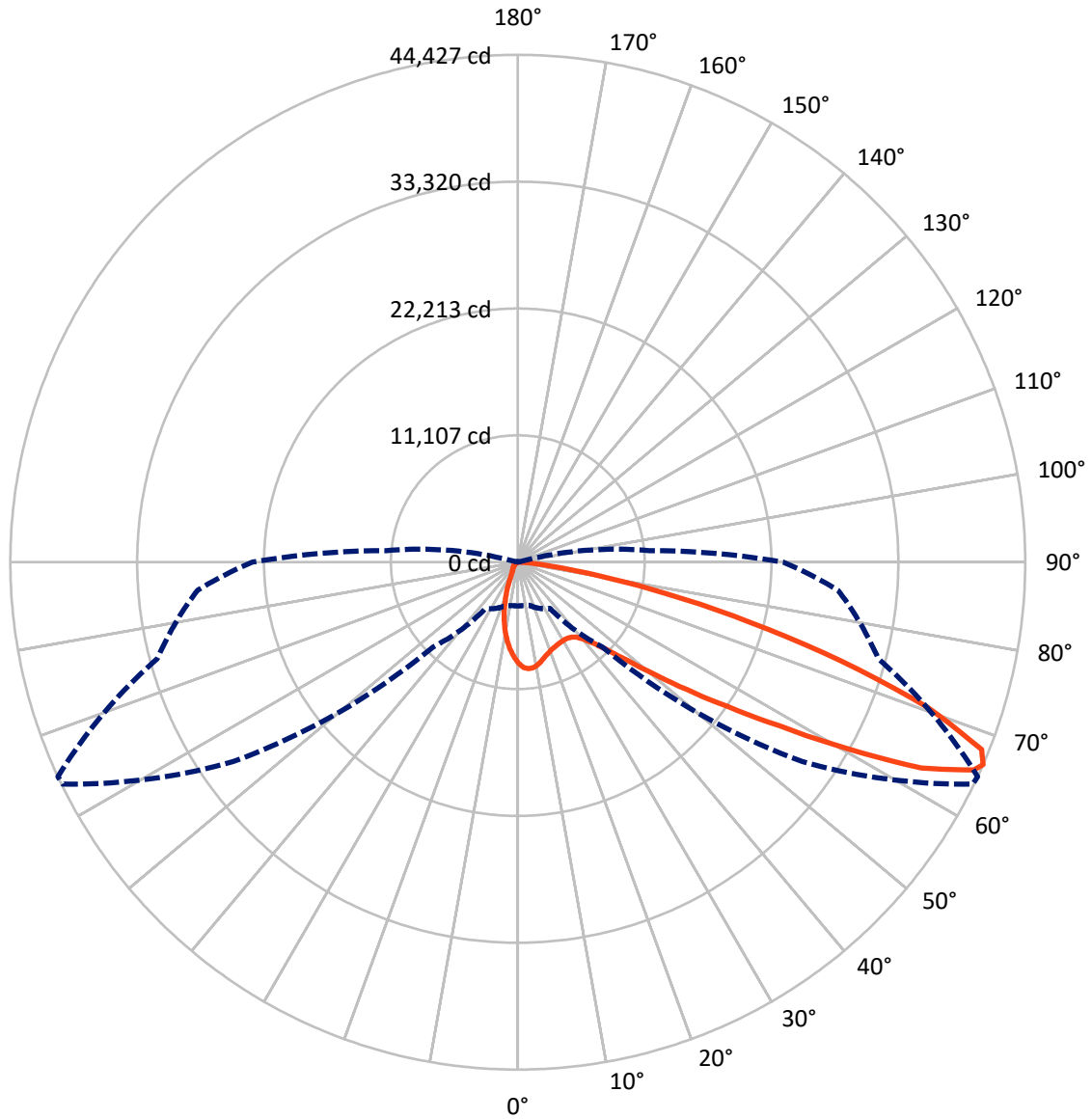
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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	3860.8	0.0	3860.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33472.2	0.0	33472.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	37333.0	0.0	37333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	724.0	1.9
10°-20°	1577.6	4.2
20°-30°	2259.9	6.1
30°-40°	3300.8	8.8
40°-50°	5534.8	14.8
50°-60°	9236.7	24.7
60°-70°	9804.5	26.3
70°-80°	4440.4	11.9
80°-90°	454.3	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°	37333.0	100.0
0°-180°	37333.0	100.0

Coefficient of Utilization



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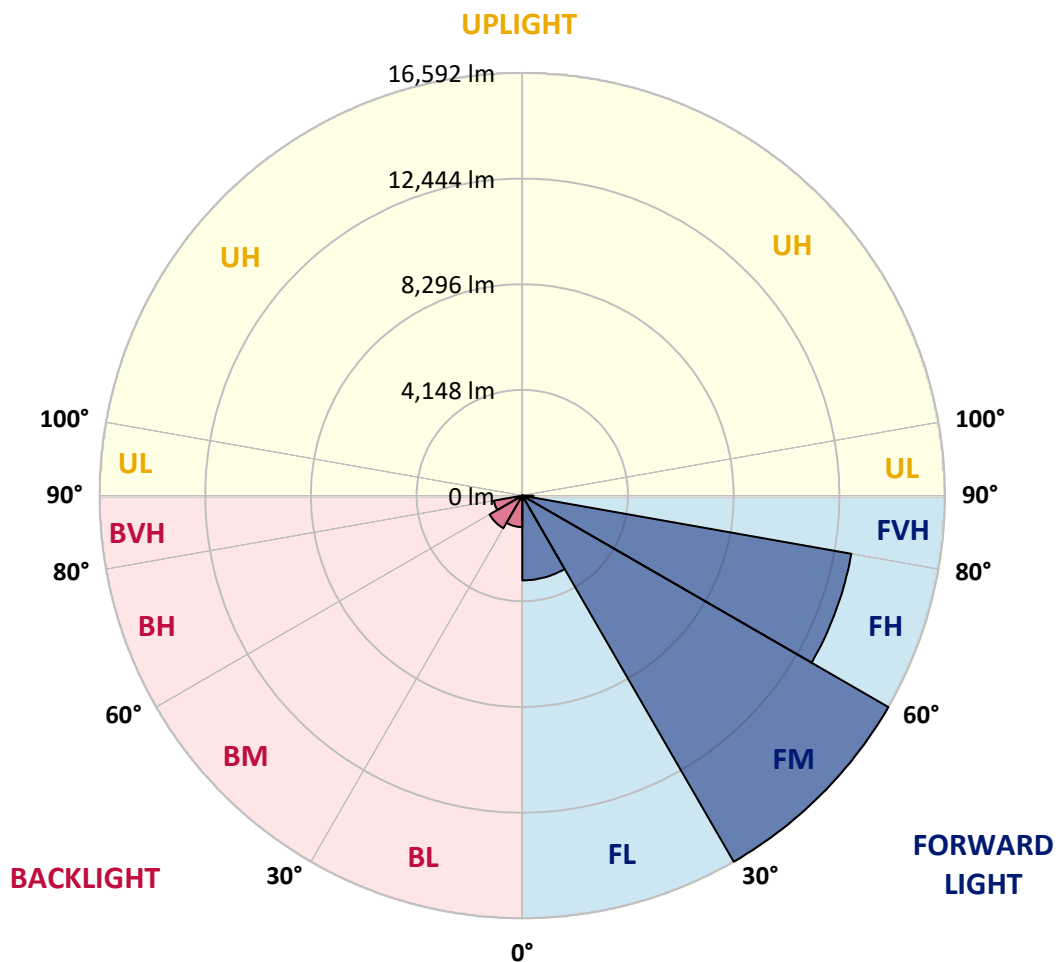
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3326.5	8.9			
FM (30°-60°)	16591.6	44.4			
FH (60°-80°)	13114.2	35.1			G5
FVH (80°-90°)	439.9	1.2			G3/500
BL (0°-30°)	1235.0	3.3	B3/2500		
BM (30°-60°)	1480.6	4.0	B2/2500		
BH (60°-80°)	1130.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.5	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°	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0
2.5°	9329.6	9339.7	9352.3	9369.9	9382.5	9344.7	9291.8	9231.3	9218.7	9090.1	8933.7
5°	8830.3	8845.5	8956.4	9016.9	9153.1	9276.6	9354.8	9364.9	9359.9	9238.8	8989.2
7.5°	8119.3	8162.1	8270.6	8376.5	8631.1	8865.6	9143.0	9337.2	9349.8	9317.0	9006.8
10°	7541.8	7569.6	7625.1	7834.3	8046.1	8404.2	8792.5	9158.1	9188.4	9319.5	8991.7
12.5°	7090.5	7130.8	7198.9	7360.3	7615.0	7952.9	8394.1	8885.8	8948.8	9271.6	8948.8
15°	6775.3	6795.5	6863.6	7022.4	7269.5	7582.2	8028.5	8600.9	8656.4	9208.6	8941.3
17.5°	6626.5	6649.2	6697.1	6823.2	7027.5	7317.4	7753.7	8371.4	8442.0	9168.2	8969.0
20°	6666.9	6687.1	6689.6	6755.1	6893.8	7138.4	7551.9	8157.1	8247.9	9143.0	9014.4
22.5°	6896.3	6898.9	6868.6	6838.3	6886.3	7062.8	7428.4	8020.9	8114.2	9138.0	9067.4
25°	7239.3	7246.8	7196.4	7090.5	6994.7	7085.5	7400.6	7932.7	8015.9	9125.4	9100.1
27.5°	7713.3	7710.8	7695.7	7519.2	7246.8	7186.3	7423.3	7884.8	7955.4	9090.1	9112.7
30°	8376.5	8356.3	8323.5	8124.3	7708.3	7430.9	7519.2	7854.5	7920.1	9039.6	9080.0
32.5°	9029.5	9105.2	9100.1	8911.0	8391.6	7867.1	7718.4	7894.9	7942.8	9006.8	9032.1
35°	9791.0	9788.5	9982.7	9912.1	9304.4	8424.4	8058.8	8028.5	8066.3	9029.5	9009.4
37.5°	10497.1	10562.6	10865.2	10938.3	10383.6	9211.1	8540.4	8315.9	8328.6	9183.3	9064.8
40°	11377.1	11503.1	11954.5	12199.1	11709.9	10378.5	9251.4	8842.9	8845.5	9561.6	9274.1
42.5°	12511.7	12710.9	13132.0	13540.5	13278.3	11760.3	10318.0	9677.6	9672.5	10227.3	9753.2
45°	13891.0	14029.7	14508.8	15156.8	14990.4	13689.3	11871.3	10971.1	10905.5	11319.1	10603.0
47.5°	15081.2	15270.3	15756.9	16495.7	17252.2	16044.4	13727.1	12748.8	12705.9	13056.4	12060.4
50°	15600.6	15767.0	16278.9	17315.2	19148.4	19135.8	16490.7	15343.4	15270.3	15459.4	14314.6
52.5°	15030.7	15187.1	15704.0	16995.0	20041.0	22902.9	20494.9	18598.7	18510.4	18268.4	17007.6
55°	13079.1	13207.7	13971.7	15454.4	19698.1	25414.3	26011.9	22620.5	22277.6	21337.0	20056.1
57.5°	10413.8	10348.3	10822.3	12544.5	17685.9	26256.5	31675.2	27630.7	27018.0	23989.7	22635.6
60°	7216.6	7418.3	7609.9	8744.6	13298.5	24796.6	35197.8	33929.5	33122.6	26599.4	25106.7
62.5°	5305.3	5438.9	5565.0	6089.5	8361.3	19798.9	35820.6	40399.7	39683.6	29370.6	27464.3
65°	4195.8	4205.9	4256.3	4773.2	5509.5	12874.8	32827.6	44048.3	43864.2	32038.3	28420.0
66°	3822.6	3825.1	3903.3	4458.0	4944.7	10484.4	30429.6	44325.7	44426.5	32678.8	28140.1
67.5°	3341.0	3330.9	3444.4	4006.7	4503.4	7559.5	26138.0	43201.1	43798.7	33170.5	27134.0
70°	2589.6	2577.0	2715.7	3361.2	4147.9	5043.0	17373.2	37094.0	38057.2	32164.4	24007.3
72.5°	1724.7	1734.8	1971.8	2652.6	3958.8	4440.4	10451.7	28218.2	29579.9	26561.6	18886.1
75°	1006.1	1023.7	1293.5	1971.8	3436.8	4233.6	5915.5	20121.7	20991.6	18341.5	11765.4
77.5°	527.0	534.6	723.7	1301.1	2635.0	3931.0	3941.1	12854.7	13263.2	8913.5	4657.2
80°	279.9	272.3	388.3	784.2	1813.0	3452.0	3197.3	6805.6	7075.4	2647.6	1177.5
82.5°	105.9	116.0	206.8	514.4	1071.6	2478.6	2753.5	3008.2	2914.9	582.5	494.2
85°	20.2	25.2	88.3	305.1	539.6	1036.3	2029.8	1475.1	1366.7	219.4	284.9
87.5°	2.5	5.0	25.2	73.1	78.2	350.5	600.1	408.5	353.0	80.7	118.5
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°	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0	8853.0
2.5°	8858.1	8790.0	8563.1	8338.6	8109.2	7902.4	7761.2	7531.8	7473.8	7390.6	7342.6
5°	8840.4	8681.6	8245.3	7768.8	7325.0	6845.9	6480.3	6127.3	5938.2	5842.3	5807.0
7.5°	8790.0	8537.8	7857.0	7110.7	6399.6	5683.5	5060.7	4586.6	4281.5	4072.2	3931.0
10°	8689.1	8341.2	7405.7	6379.4	5305.3	4359.7	3570.5	2970.3	2506.4	2360.1	2365.2
12.5°	8585.8	8121.8	6901.4	5567.5	4236.1	3043.5	2206.3	1732.3	1510.4	1437.3	1422.1
15°	8489.9	7912.5	6407.2	4780.8	3154.4	1971.8	1422.1	1255.7	1195.2	1182.6	1180.1
17.5°	8439.5	7718.4	5880.2	3880.6	2201.3	1338.9	1139.7	1094.3	1076.7	1064.1	1059.0
20°	8396.6	7549.4	5375.9	3038.4	1505.3	1096.9	1021.2	978.3	948.1	935.5	927.9
22.5°	8366.4	7375.4	4853.9	2352.6	1152.3	973.3	905.2	849.7	806.9	791.8	781.7
25°	8321.0	7183.8	4326.9	1719.7	970.8	864.9	786.7	721.2	665.7	637.9	632.9
27.5°	8255.4	6966.9	3749.5	1273.4	867.4	769.1	673.2	592.6	537.1	506.8	509.3
30°	8149.5	6740.0	3172.1	1011.1	784.2	670.7	567.3	489.2	436.2	413.5	411.0
32.5°	8023.5	6465.2	2642.5	867.4	708.5	582.5	474.0	406.0	365.6	348.0	345.4
35°	7904.9	6187.8	2102.9	779.1	630.4	501.8	398.4	340.4	310.1	295.0	297.5
37.5°	7839.4	5940.7	1639.0	708.5	567.3	431.2	342.9	292.5	264.8	252.2	249.6
40°	7882.2	5739.0	1303.6	645.5	496.7	370.7	295.0	252.2	224.4	206.8	206.8
42.5°	8084.0	5650.7	1051.5	585.0	431.2	320.2	257.2	216.9	186.6	168.9	171.5
45°	8699.2	5744.0	880.0	529.5	370.7	277.4	221.9	179.0	151.3	138.7	136.2
47.5°	9720.4	6094.5	761.5	471.5	317.7	237.0	186.6	148.8	121.0	110.9	108.4
50°	11505.7	6818.2	673.2	413.5	269.8	201.7	153.8	118.5	95.8	85.7	85.7
52.5°	13961.6	8396.6	610.2	348.0	226.9	171.5	126.1	95.8	75.6	68.1	65.6
55°	16528.5	10060.8	577.4	292.5	189.1	141.2	100.9	75.6	58.0	50.4	47.9
57.5°	18997.1	11367.0	539.6	237.0	151.3	108.4	78.2	58.0	40.3	35.3	32.8
60°	21364.8	12423.5	458.9	189.1	118.5	78.2	58.0	40.3	27.7	22.7	22.7
62.5°	23482.8	13038.7	360.6	151.3	90.8	55.5	37.8	30.3	20.2	15.1	15.1
65°	23730.0	12239.4	272.3	116.0	65.6	35.3	22.7	22.7	15.1	10.1	10.1
66°	23233.2	11561.1	239.5	105.9	58.0	30.3	20.2	17.7	12.6	7.6	7.6
67.5°	22123.8	10403.8	206.8	90.8	47.9	22.7	15.1	15.1	10.1	5.0	5.0
70°	19115.6	8497.5	163.9	68.1	35.3	17.7	10.1	10.1	7.6	5.0	5.0
72.5°	14569.3	6344.1	133.6	50.4	25.2	12.6	7.6	7.6	7.6	5.0	5.0
75°	8787.5	3416.6	103.4	37.8	22.7	10.1	5.0	7.6	10.1	7.6	5.0
77.5°	3237.6	1162.4	80.7	30.3	17.7	10.1	5.0	5.0	10.1	7.6	7.6
80°	794.3	302.6	58.0	25.2	17.7	10.1	5.0	5.0	10.1	10.1	10.1
82.5°	368.1	128.6	40.3	22.7	17.7	10.1	5.0	5.0	7.6	10.1	10.1
85°	211.8	60.5	32.8	25.2	17.7	10.1	5.0	5.0	7.6	10.1	10.1
87.5°	85.7	30.3	30.3	25.2	20.2	12.6	5.0	5.0	5.0	7.6	7.6
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)