

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: P459319

Luminaire Tested: **GALN-SA7D-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39299 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

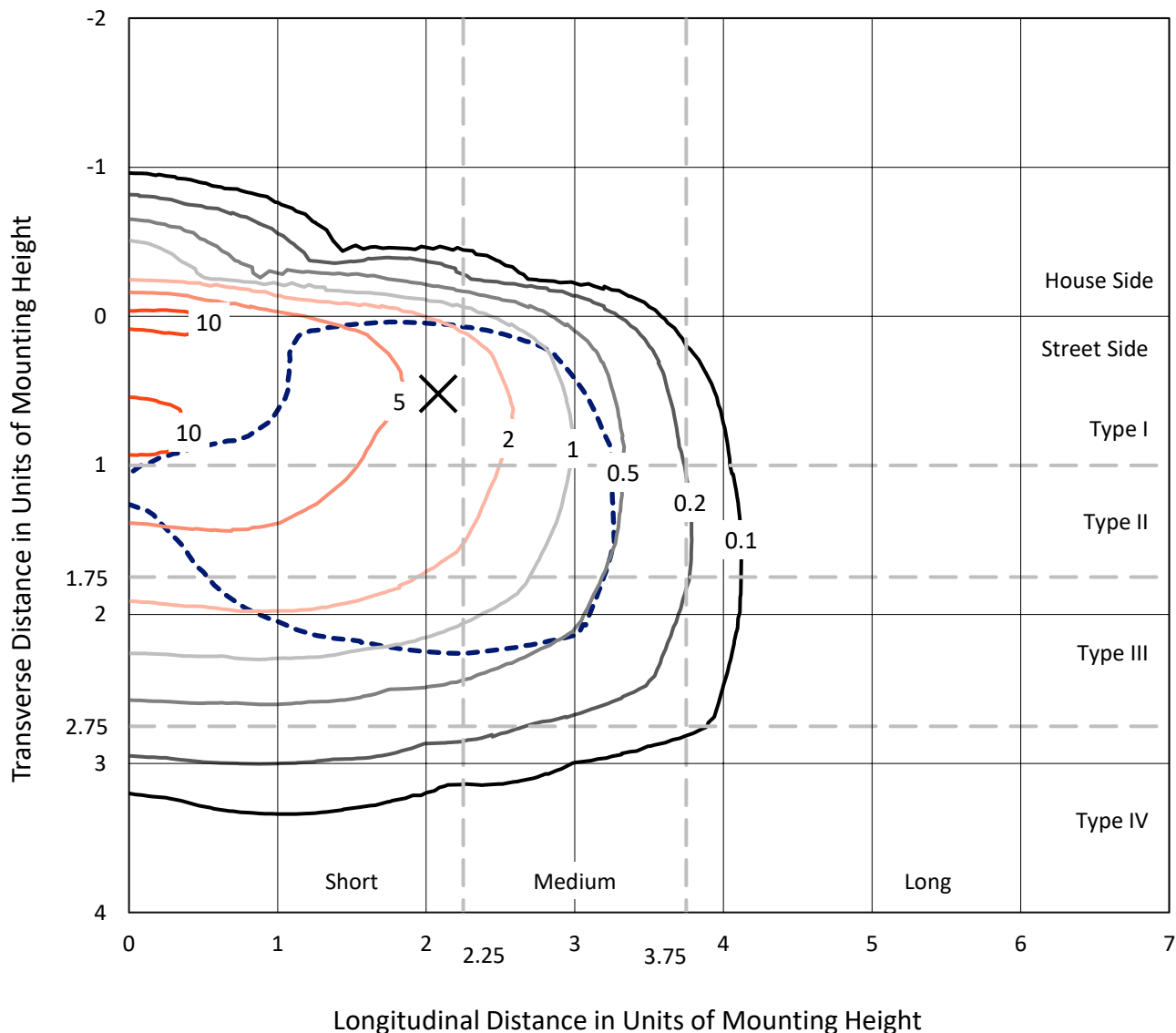
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

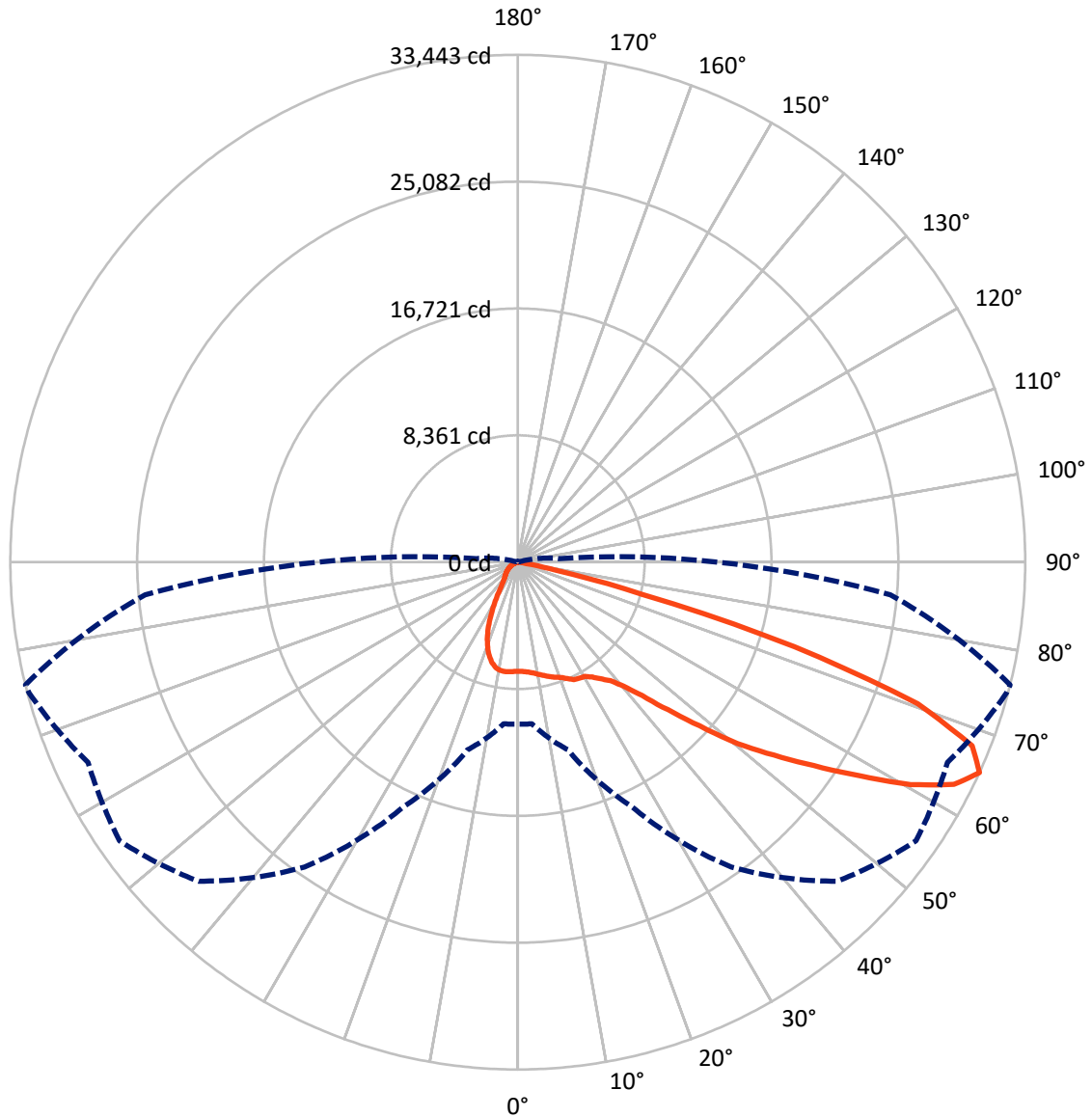
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2838.2	0.0	2838.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	36460.8	0.0	36460.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	39299.0	0.0	39299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.2	1.5
10°-20°	1318.6	3.4
20°-30°	2124.8	5.4
30°-40°	3694.5	9.4
40°-50°	6104.9	15.5
50°-60°	9430.9	24.0
60°-70°	11516.4	29.3
70°-80°	4370.8	11.1
80°-90°	145.9	0.4
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°	39299.0	100.0
0°-180°	39299.0	100.0

Coefficient of Utilization



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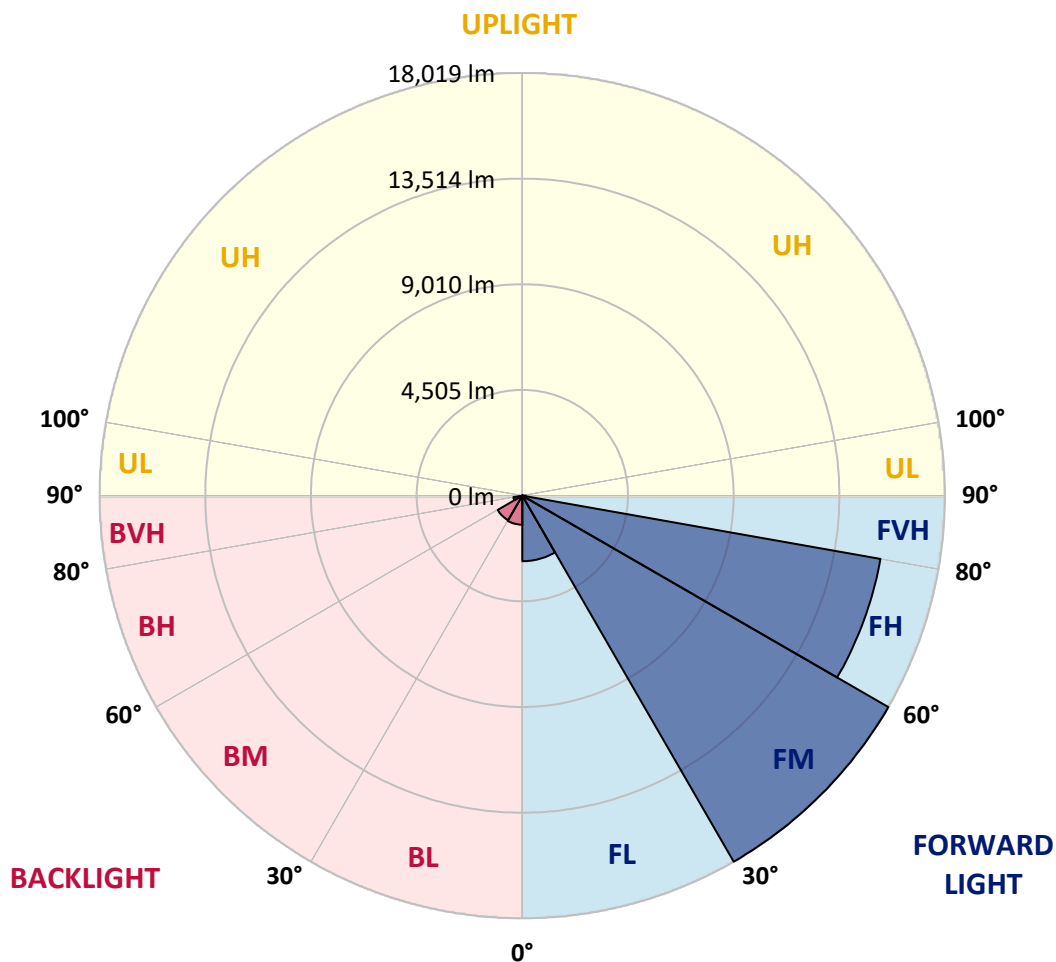
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.7	7.1			
FM (30°-60°)	18019.2	45.9			
FH (60°-80°)	15502.1	39.4			G5
FVH (80°-90°)	143.9	0.4			G2/225
BL (0°-30°)	1239.9	3.2	B3/2500		
BM (30°-60°)	1211.1	3.1	B2/2500		
BH (60°-80°)	385.1	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0
2.5°	6870.0	6872.7	6889.4	6931.0	6994.8	7047.5	7091.9	7164.1	7214.0	7219.6	7236.2
5°	6395.5	6362.2	6395.5	6503.7	6600.8	6747.9	6928.2	7108.6	7269.5	7280.6	7358.3
7.5°	5862.8	5890.5	5943.2	6054.2	6237.3	6462.1	6722.9	7044.8	7350.0	7377.7	7530.3
10°	5321.7	5382.8	5468.8	5638.0	5893.3	6184.6	6539.8	7000.4	7477.6	7516.4	7780.0
12.5°	4822.3	4850.0	4955.5	5183.0	5499.3	5909.9	6401.0	6975.4	7619.1	7666.3	8046.4
15°	4439.4	4475.5	4567.0	4772.3	5124.7	5651.9	6287.3	6967.1	7757.8	7824.4	8312.8
17.5°	4367.3	4389.4	4428.3	4567.0	4875.0	5446.6	6184.6	6964.3	7891.0	7971.5	8559.7
20°	4664.1	4644.7	4605.9	4592.0	4761.2	5288.4	6109.7	6986.5	8018.7	8110.2	8820.5
22.5°	5407.7	5432.7	5205.2	4936.0	4880.6	5263.5	6098.6	7091.9	8221.2	8329.4	9111.9
25°	6986.5	6795.0	6439.9	5796.2	5310.6	5416.1	6223.5	7341.6	8457.0	8576.4	9375.4
27.5°	8731.7	8673.5	8121.3	7061.4	6156.9	5737.9	6445.4	7533.1	8534.7	8656.8	9525.3
30°	10446.4	10515.8	9883.2	8712.3	7386.0	6334.5	6653.5	7605.2	8604.1	8731.7	9716.7
32.5°	12036.3	12119.5	11564.6	10404.8	8834.4	7366.6	7011.5	7885.5	8895.4	9025.8	10035.8
35°	13287.7	13298.8	12879.8	11955.8	10415.9	8620.7	7785.6	8376.6	9289.4	9442.0	10374.3
37.5°	14436.3	14419.7	13928.6	13132.3	11733.9	9866.5	8759.5	8942.6	9738.9	9897.1	10862.6
40°	15288.2	15299.3	15141.1	14392.0	12963.0	11018.0	9530.8	9472.6	10493.6	10740.6	11572.9
42.5°	15857.0	15959.6	16037.3	15657.2	14508.5	12435.8	10715.6	10607.4	11803.2	12008.6	12577.4
45°	16317.5	16500.7	16889.1	16869.7	15992.9	14175.5	12341.5	12119.5	13659.5	13878.7	13856.5
47.5°	16653.3	16839.2	17482.9	17871.3	17388.5	15862.5	14386.4	14195.0	15876.4	16115.0	15268.7
50°	16825.3	17047.3	17868.6	18620.5	18479.0	17488.4	16717.1	16728.2	18553.9	18784.2	16905.8
52.5°	16423.0	16711.5	18073.9	19427.9	19702.6	19045.0	18900.7	19267.0	20937.3	21134.3	18384.6
55°	15138.3	15501.8	17793.6	20116.0	21120.4	20881.8	21381.2	21938.9	23542.7	23670.3	19902.4
57.5°	14325.4	14711.0	16966.8	20701.4	22824.0	23190.3	23981.0	24388.9	26231.3	26555.9	21644.8
60°	13640.0	13942.5	16287.0	20826.3	24555.4	26014.8	26783.4	27205.2	29549.7	29760.6	23562.1
62.5°	12499.7	12846.5	15138.3	19955.1	25426.6	28276.2	29868.8	29680.1	32116.2	32263.3	24738.5
65°	10665.6	10696.2	12807.6	17765.9	24527.6	29743.9	32035.8	31245.0	33342.6	33442.5	24647.0
67.5°	7960.4	8254.5	9852.7	13964.7	20718.1	28489.8	32737.7	31286.6	32568.5	32291.0	22690.8
70°	5127.5	5352.2	6678.5	9683.4	14938.6	23775.7	30409.8	29141.8	28584.1	27968.2	18573.3
72.5°	2366.8	2655.3	3967.7	5532.6	8859.4	16936.3	24685.8	23675.8	20573.8	19053.3	11806.0
75°	1032.2	1104.3	1958.9	2918.9	4153.6	8956.5	16275.9	14697.2	9292.2	8487.6	4725.2
77.5°	629.8	677.0	1026.6	1564.9	1631.5	3412.8	8767.8	6412.1	2871.7	2533.2	1281.9
80°	427.3	480.0	746.4	818.5	557.7	951.7	3290.7	1711.9	579.9	554.9	274.7
82.5°	208.1	263.6	552.1	457.8	241.4	305.2	957.2	366.2	169.3	158.2	97.1
85°	30.5	52.7	310.8	299.7	108.2	72.1	169.3	91.6	58.3	55.5	44.4
87.5°	0.0	0.0	105.4	47.2	11.1	11.1	19.4	19.4	22.2	19.4	22.2
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°	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0
2.5°	7244.5	7258.4	7205.7	7130.8	7050.3	6969.8	6856.1	6753.4	6692.4	6728.5	6639.7
5°	7374.9	7363.8	7225.1	6997.6	6695.2	6331.7	5971.0	5663.0	5563.1	5413.3	5396.6
7.5°	7555.3	7524.8	7230.7	6709.0	6026.5	5343.9	4678.0	4236.8	3984.4	3770.7	3776.3
10°	7807.8	7719.0	7166.8	6201.3	5077.6	4048.2	3199.1	2616.5	2364.0	2283.5	2219.7
12.5°	8068.6	7896.6	6989.3	5515.9	3953.8	2766.3	1945.0	1589.9	1434.5	1384.5	1379.0
15°	8301.7	8029.8	6678.5	4691.9	2874.5	1767.4	1326.3	1209.7	1190.3	1193.1	1190.3
17.5°	8532.0	8135.2	6248.4	3817.9	1953.3	1268.0	1140.4	1112.6	1120.9	1132.0	1129.3
20°	8723.4	8157.4	5699.1	2913.4	1381.8	1112.6	1071.0	1065.5	1073.8	1082.1	1082.1
22.5°	8931.5	8174.0	5047.0	2017.1	1129.3	1034.9	1012.7	1012.7	1023.8	1034.9	1037.7
25°	9086.9	8082.5	4267.4	1448.4	996.1	960.0	948.9	951.7	962.8	968.3	965.6
27.5°	9111.9	7824.4	3440.5	1109.8	904.5	868.5	857.4	868.5	854.6	862.9	857.4
30°	9134.1	7497.0	2602.6	935.0	821.3	765.8	749.1	732.5	721.4	707.5	704.8
32.5°	9203.4	7111.4	1900.6	840.7	743.6	682.6	643.7	596.5	560.5	549.4	546.6
35°	9233.9	6648.0	1395.6	765.8	674.2	607.6	538.3	471.7	419.0	399.5	413.4
37.5°	9350.5	6198.5	1082.1	710.3	613.2	530.0	441.2	357.9	308.0	296.9	302.4
40°	9589.1	5710.2	907.3	663.1	560.5	457.8	349.6	269.1	235.8	224.7	222.0
42.5°	9972.0	5224.6	807.4	618.7	507.8	385.7	274.7	210.9	183.1	174.8	174.8
45°	10438.1	4758.5	738.0	571.6	452.3	310.8	216.4	169.3	152.6	147.1	147.1
47.5°	11051.3	4350.6	679.8	524.4	391.2	246.9	174.8	147.1	136.0	138.7	141.5
50°	11672.8	4048.2	616.0	471.7	321.9	202.5	149.8	130.4	127.6	130.4	130.4
52.5°	12141.7	3870.6	530.0	399.5	252.5	169.3	133.2	122.1	119.3	113.8	113.8
55°	12774.4	3831.8	421.7	324.6	199.8	141.5	119.3	111.0	102.7	97.1	94.3
57.5°	13587.3	3876.1	324.6	252.5	155.4	116.5	105.4	91.6	80.5	69.4	69.4
60°	14092.3	3776.3	252.5	194.2	113.8	94.3	80.5	66.6	52.7	44.4	41.6
62.5°	13931.4	3354.5	199.8	144.3	80.5	69.4	52.7	44.4	30.5	22.2	19.4
65°	13101.8	2708.0	160.9	99.9	58.3	41.6	27.7	27.7	13.9	2.8	0.0
67.5°	11467.5	2006.1	127.6	66.6	33.3	19.4	13.9	8.3	0.0	0.0	0.0
70°	9333.8	1448.4	99.9	41.6	19.4	13.9	5.5	2.8	0.0	0.0	0.0
72.5°	5926.6	829.6	77.7	25.0	13.9	5.5	0.0	0.0	0.0	0.0	0.0
75°	2291.8	324.6	52.7	16.6	5.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	649.3	152.6	30.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	169.3	66.6	16.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.5	27.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.2	11.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0	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)