

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: P457214

Luminaire Tested: **GALN-SA8C-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457214
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-SA8C-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 46463 lumens
Efficiency: N/A
Efficacy: 108.3 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

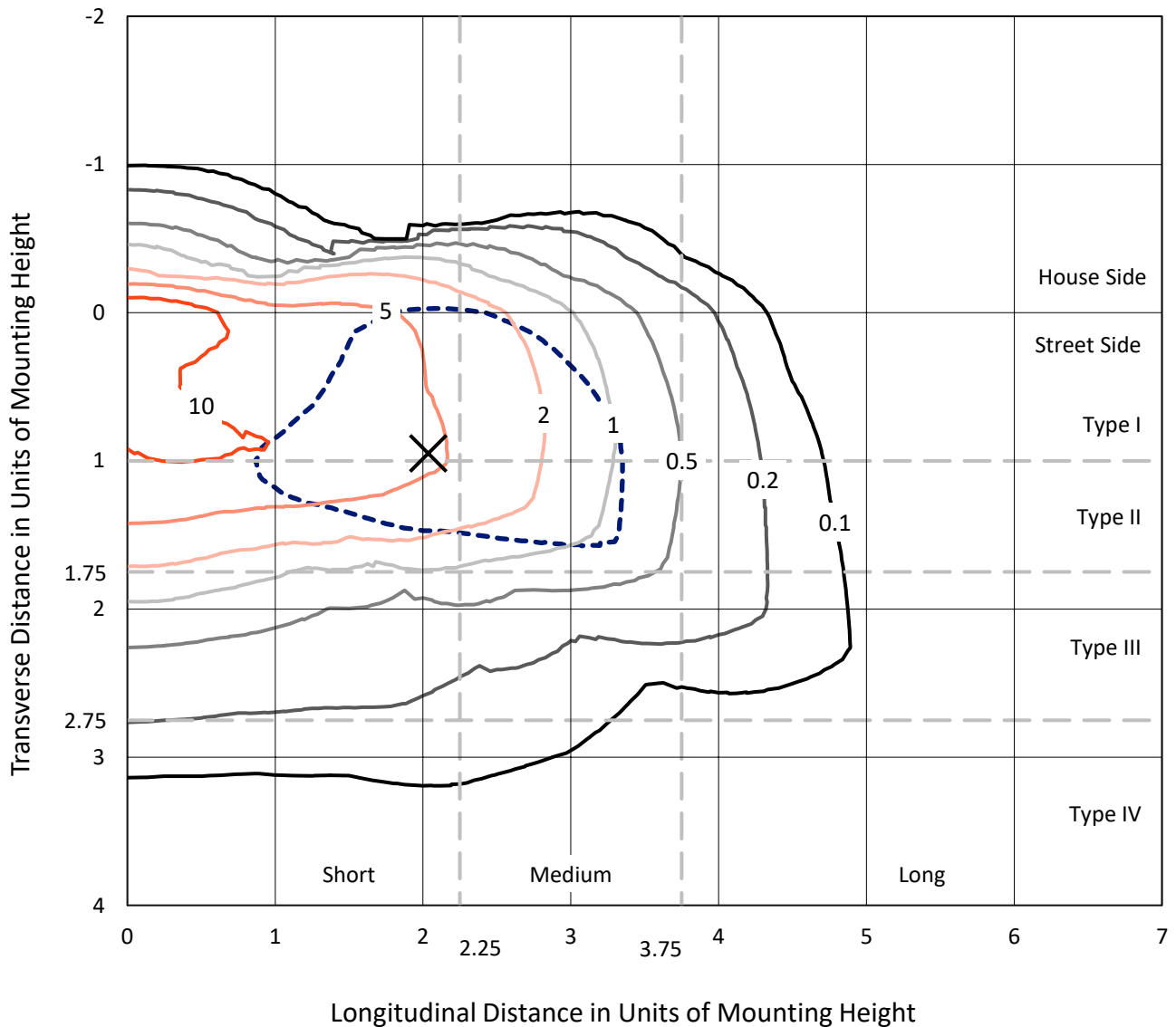
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

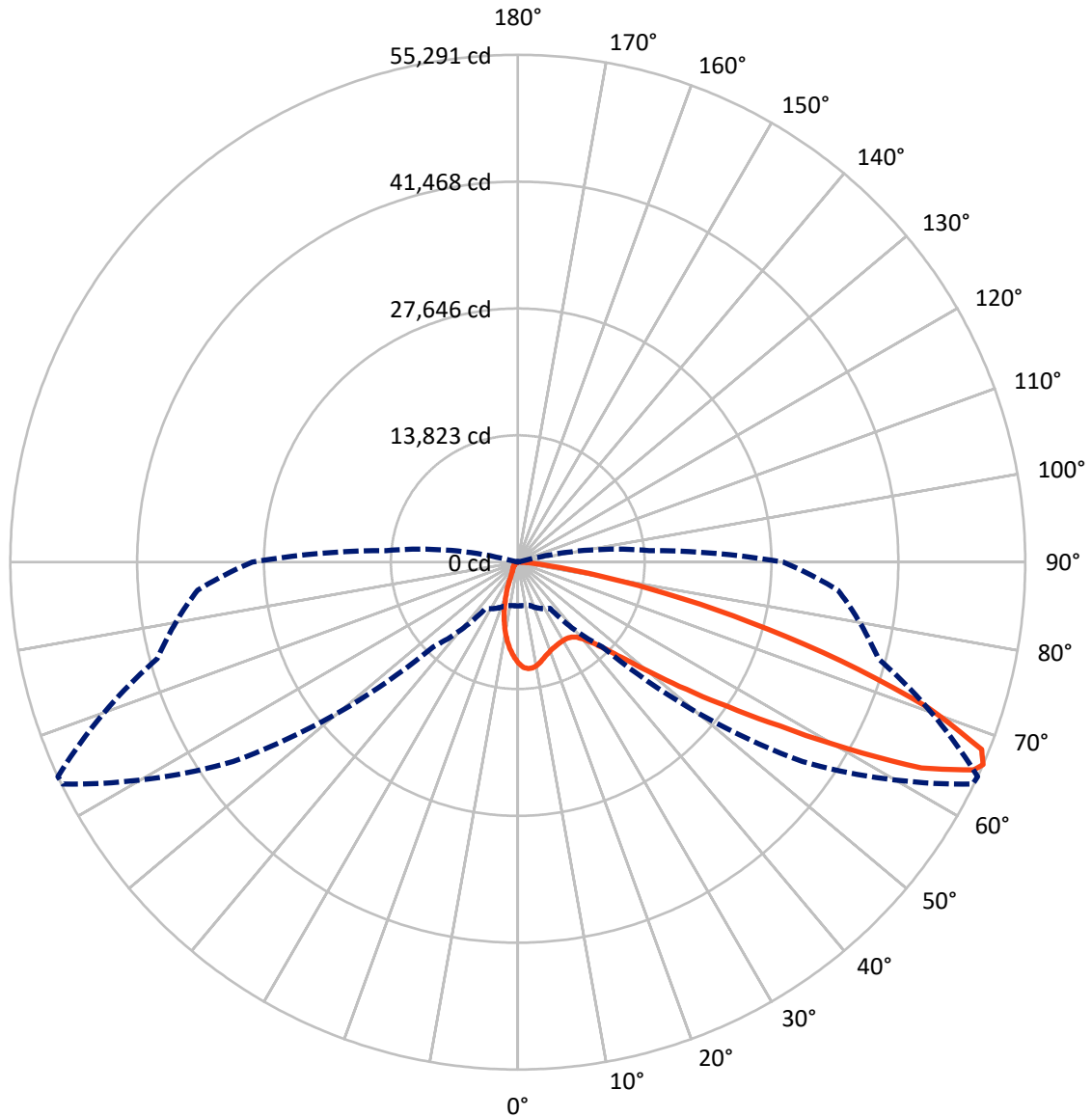
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 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	4804.9	0.0	4804.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	41658.1	0.0	41658.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	46463.0	0.0	46463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	901.1	1.9
10°-20°	1963.4	4.2
20°-30°	2812.6	6.1
30°-40°	4108.0	8.8
40°-50°	6888.4	14.8
50°-60°	11495.6	24.7
60°-70°	12202.2	26.3
70°-80°	5526.3	11.9
80°-90°	565.5	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°	46463.0	100.0
0°-180°	46463.0	100.0

Coefficient of Utilization



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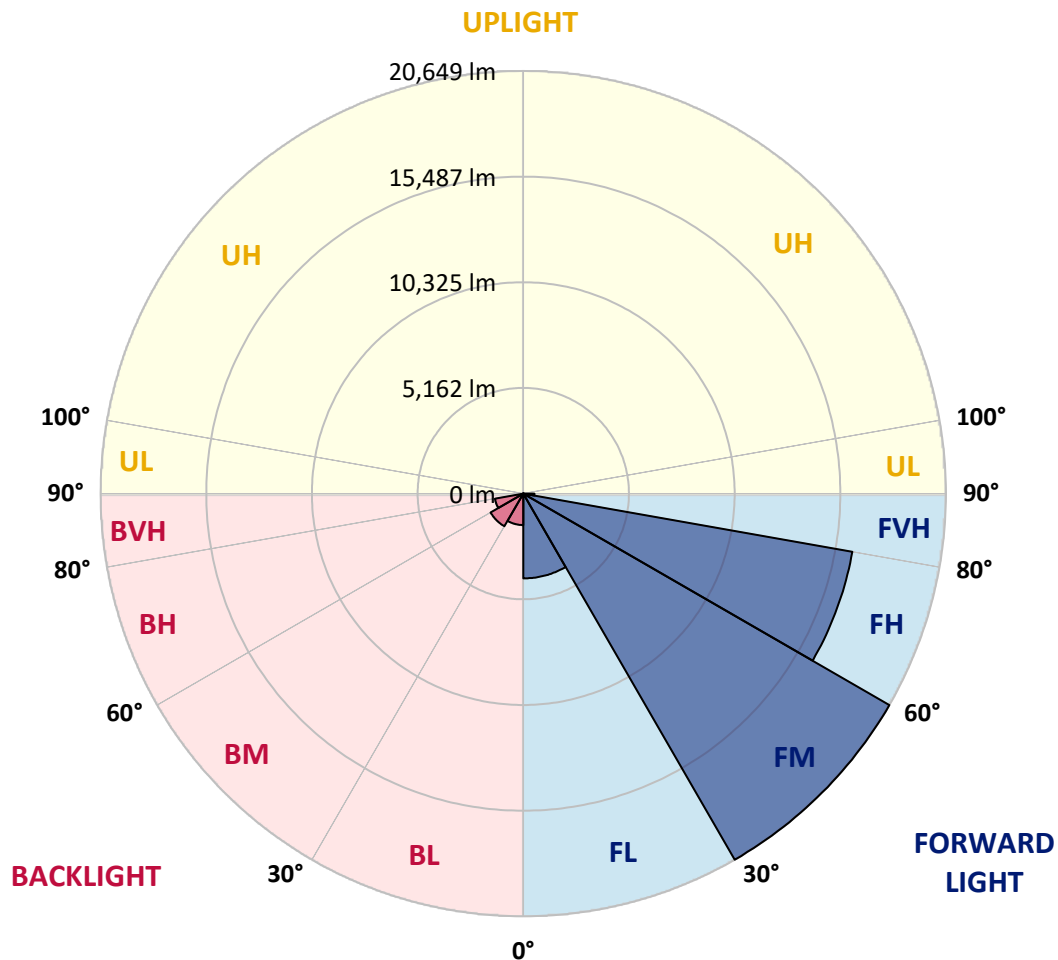
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4140.0	8.9			
FM (30°-60°)	20649.2	44.4			
FH (60°-80°)	16321.4	35.1			G5
FVH (80°-90°)	547.4	1.2			G4/750
BL (0°-30°)	1537.0	3.3	B3/2500		
BM (30°-60°)	1842.7	4.0	B2/2500		
BH (60°-80°)	1407.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	18.0	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1
2.5°	11611.2	11623.8	11639.4	11661.4	11677.1	11630.0	11564.1	11488.8	11473.1	11313.1	11118.5
5°	10989.8	11008.7	11146.8	11222.1	11391.5	11545.3	11642.6	11655.1	11648.9	11498.2	11187.6
7.5°	10104.9	10158.2	10293.2	10425.0	10741.9	11033.8	11379.0	11620.6	11636.3	11595.5	11209.5
10°	9386.2	9420.8	9489.8	9750.3	10013.9	10459.5	10942.8	11397.8	11435.5	11598.7	11190.7
12.5°	8824.5	8874.7	8959.5	9160.3	9477.3	9897.8	10446.9	11058.9	11137.3	11539.0	11137.3
15°	8432.2	8457.3	8542.1	8739.8	9047.3	9436.5	9991.9	10704.3	10773.3	11460.6	11127.9
17.5°	8247.1	8275.3	8335.0	8491.9	8746.1	9106.9	9649.9	10418.7	10506.6	11410.4	11162.4
20°	8297.3	8322.4	8325.5	8407.1	8579.7	8884.1	9398.8	10152.0	10264.9	11379.0	11218.9
22.5°	8582.9	8586.0	8548.4	8510.7	8570.3	8790.0	9245.0	9982.5	10098.6	11372.7	11284.8
25°	9009.7	9019.1	8956.3	8824.5	8705.3	8818.2	9210.5	9872.7	9976.2	11357.0	11325.6
27.5°	9599.6	9596.5	9577.7	9358.0	9019.1	8943.8	9238.8	9813.0	9900.9	11313.1	11341.3
30°	10425.0	10399.9	10359.1	10111.2	9593.4	9248.2	9358.0	9775.4	9857.0	11250.3	11300.5
32.5°	11237.8	11331.9	11325.6	11090.3	10443.8	9791.1	9605.9	9825.6	9885.2	11209.5	11240.9
35°	12185.5	12182.3	12424.0	12336.1	11579.8	10484.6	10029.6	9991.9	10039.0	11237.8	11212.7
37.5°	13064.2	13145.8	13522.3	13613.4	12923.0	11463.7	10629.0	10349.7	10365.4	11429.2	11281.7
40°	14159.4	14316.3	14878.0	15182.4	14573.6	12916.7	11513.9	11005.5	11008.7	11899.9	11542.2
42.5°	15571.6	15819.5	16343.6	16851.9	16525.6	14636.4	12841.4	12044.3	12038.0	12728.4	12138.4
45°	17288.1	17460.7	18057.0	18863.5	18656.4	17037.1	14774.5	13654.1	13572.6	14087.2	13196.0
47.5°	18769.4	19004.7	19610.4	20529.9	21471.3	19968.1	17084.2	15866.6	15813.2	16249.4	15009.8
50°	19415.8	19622.9	20260.0	21549.8	23831.2	23815.5	20523.6	19095.7	19004.7	19240.1	17815.4
52.5°	18706.6	18901.2	19544.5	21151.2	24942.1	28503.9	25507.0	23147.1	23037.3	22736.0	21166.9
55°	16277.7	16437.7	17388.6	19233.8	24515.3	31629.5	32373.3	28152.5	27725.7	26555.1	24960.9
57.5°	12960.6	12879.0	13469.0	15612.4	22011.1	32677.7	39421.6	34388.0	33625.4	29856.5	28171.3
60°	8981.4	9232.5	9471.0	10883.1	16550.7	30860.7	43805.6	42227.1	41222.9	33104.5	31246.7
62.5°	6602.7	6769.0	6925.9	7578.7	10406.1	24640.9	44580.7	50279.7	49388.4	36553.3	34180.9
65°	5221.9	5234.5	5297.2	5940.5	6856.9	16023.5	40855.7	54820.6	54591.5	39873.5	35370.2
66°	4757.5	4760.6	4857.9	5548.3	6153.9	13048.5	37871.4	55165.8	55291.3	40670.6	35021.9
67.5°	4158.1	4145.5	4286.7	4986.5	5604.8	9408.2	32530.2	53766.1	54509.9	41282.5	33769.8
70°	3222.9	3207.2	3379.8	4183.2	5162.3	6276.3	21621.9	46165.5	47364.3	40030.4	29878.5
72.5°	2146.5	2159.1	2454.0	3301.3	4926.9	5526.3	13007.7	35119.2	36813.8	33057.4	23504.8
75°	1252.1	1274.1	1609.9	2454.0	4277.3	5269.0	7362.1	25042.5	26125.2	22827.0	14642.7
77.5°	655.9	665.3	900.7	1619.3	3279.4	4892.4	4904.9	15998.4	16506.7	11093.4	5796.2
80°	348.3	338.9	483.3	976.0	2256.3	4296.1	3979.2	8469.9	8805.7	3295.1	1465.5
82.5°	131.8	144.4	257.3	640.2	1333.7	3084.8	3426.9	3743.8	3627.7	724.9	615.1
85°	25.1	31.4	109.8	379.7	671.6	1289.8	2526.2	1835.8	1700.9	273.0	354.6
87.5°	3.1	6.3	31.4	91.0	97.3	436.2	746.9	508.4	439.3	100.4	147.5
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°	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1	11018.1
2.5°	11024.4	10939.6	10657.2	10377.9	10092.3	9835.0	9659.3	9373.7	9301.5	9198.0	9138.3
5°	11002.4	10804.7	10261.8	9668.7	9116.4	8520.1	8065.1	7625.7	7390.4	7271.1	7227.2
7.5°	10939.6	10625.8	9778.5	8849.6	7964.7	7073.4	6298.3	5708.3	5328.6	5068.1	4892.4
10°	10814.1	10381.0	9216.8	7939.6	6602.7	5425.9	4443.6	3696.8	3119.3	2937.3	2943.6
12.5°	10685.4	10108.0	8589.2	6929.1	5272.1	3787.8	2745.9	2155.9	1879.8	1788.8	1769.9
15°	10566.2	9847.6	7974.1	5950.0	3925.8	2454.0	1769.9	1562.8	1487.5	1471.8	1468.7
17.5°	10503.4	9605.9	7318.2	4829.6	2739.6	1666.4	1418.4	1362.0	1340.0	1324.3	1318.0
20°	10450.1	9395.7	6690.6	3781.5	1873.5	1365.1	1271.0	1217.6	1179.9	1164.3	1154.8
22.5°	10412.4	9179.1	6041.0	2927.9	1434.1	1211.3	1126.6	1057.6	1004.2	985.4	972.8
25°	10355.9	8940.6	5385.1	2140.2	1208.2	1076.4	979.1	897.5	828.5	794.0	787.7
27.5°	10274.3	8670.7	4666.4	1584.8	1079.5	957.1	837.9	737.5	668.4	630.8	633.9
30°	10142.5	8388.3	3947.8	1258.4	976.0	834.8	706.1	608.8	542.9	514.7	511.5
32.5°	9985.6	8046.3	3288.8	1079.5	881.8	724.9	590.0	505.2	455.0	433.1	429.9
35°	9838.1	7701.1	2617.2	969.7	784.5	624.5	495.8	423.7	386.0	367.2	370.3
37.5°	9756.5	7393.5	2039.8	881.8	706.1	536.6	426.8	364.0	329.5	313.8	310.7
40°	9809.9	7142.5	1622.4	803.4	618.2	461.3	367.2	313.8	279.3	257.3	257.3
42.5°	10061.0	7032.6	1308.6	728.1	536.6	398.5	320.1	269.9	232.2	210.3	213.4
45°	10826.7	7148.7	1095.2	659.0	461.3	345.2	276.2	222.8	188.3	172.6	169.5
47.5°	12097.6	7584.9	947.7	586.8	395.4	295.0	232.2	185.2	150.6	138.1	134.9
50°	14319.4	8485.6	837.9	514.7	335.8	251.1	191.4	147.5	119.3	106.7	106.7
52.5°	17376.0	10450.1	759.4	433.1	282.4	213.4	156.9	119.3	94.1	84.7	81.6
55°	20570.7	12521.3	718.6	364.0	235.4	175.7	125.5	94.1	72.2	62.8	59.6
57.5°	23642.9	14146.8	671.6	295.0	188.3	134.9	97.3	72.2	50.2	43.9	40.8
60°	26589.7	15461.7	571.1	235.4	147.5	97.3	72.2	50.2	34.5	28.2	28.2
62.5°	29225.7	16227.4	448.8	188.3	113.0	69.0	47.1	37.7	25.1	18.8	18.8
65°	29533.3	15232.6	338.9	144.4	81.6	43.9	28.2	28.2	18.8	12.6	12.6
66°	28915.0	14388.5	298.1	131.8	72.2	37.7	25.1	22.0	15.7	9.4	9.4
67.5°	27534.2	12948.1	257.3	113.0	59.6	28.2	18.8	18.8	12.6	6.3	6.3
70°	23790.4	10575.6	204.0	84.7	43.9	22.0	12.6	12.6	9.4	6.3	6.3
72.5°	18132.3	7895.6	166.3	62.8	31.4	15.7	9.4	9.4	9.4	6.3	6.3
75°	10936.5	4252.2	128.7	47.1	28.2	12.6	6.3	9.4	12.6	9.4	6.3
77.5°	4029.4	1446.7	100.4	37.7	22.0	12.6	6.3	6.3	12.6	9.4	9.4
80°	988.5	376.6	72.2	31.4	22.0	12.6	6.3	6.3	12.6	12.6	12.6
82.5°	458.2	160.0	50.2	28.2	22.0	12.6	6.3	6.3	9.4	12.6	12.6
85°	263.6	75.3	40.8	31.4	22.0	12.6	6.3	6.3	9.4	12.6	12.6
87.5°	106.7	37.7	37.7	31.4	25.1	15.7	6.3	6.3	6.3	9.4	9.4
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)