

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: P457235

Luminaire Tested: **GALN-SA8C-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41068 lumens
Efficiency: N/A
Efficacy: 95.7 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

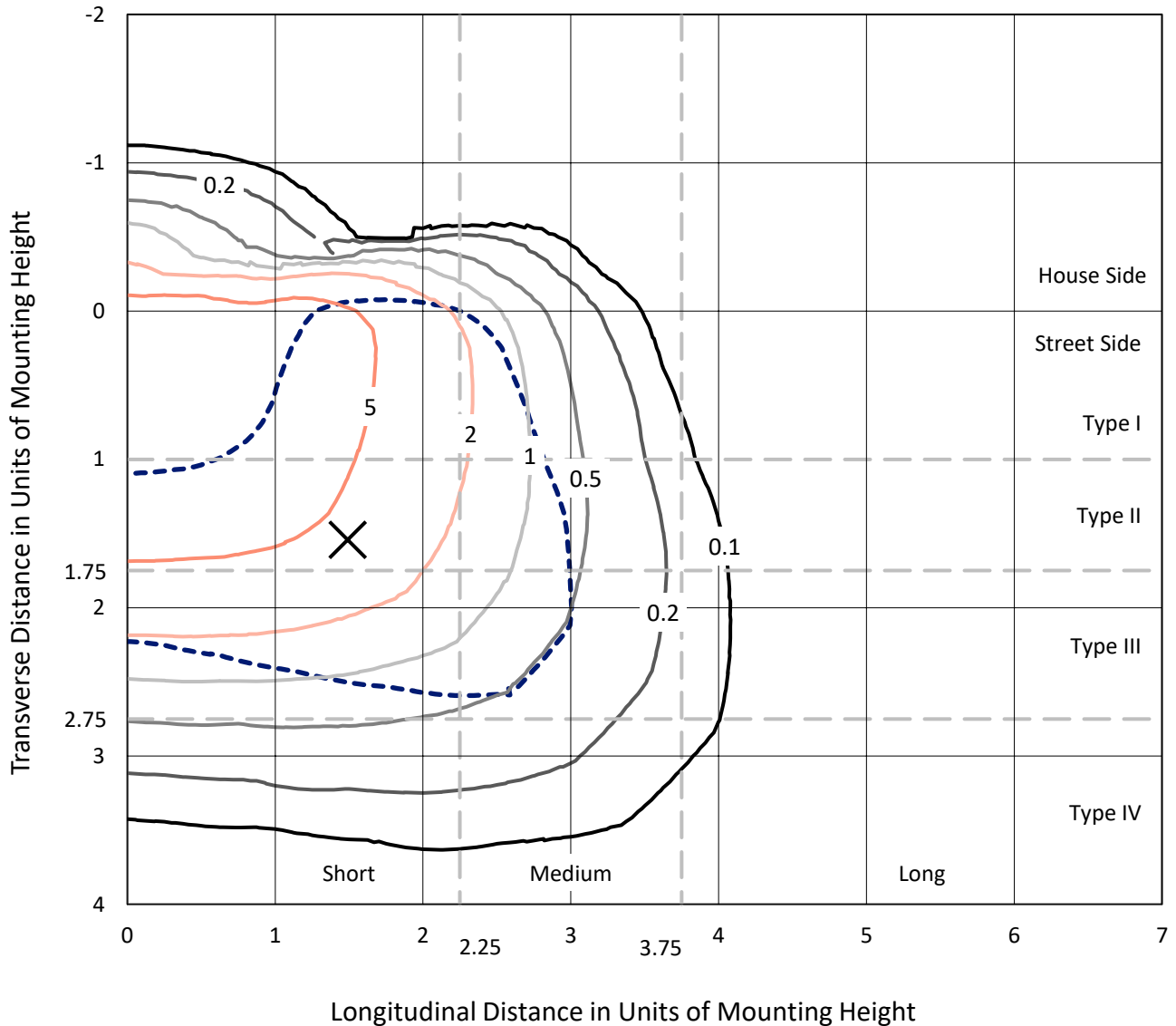
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

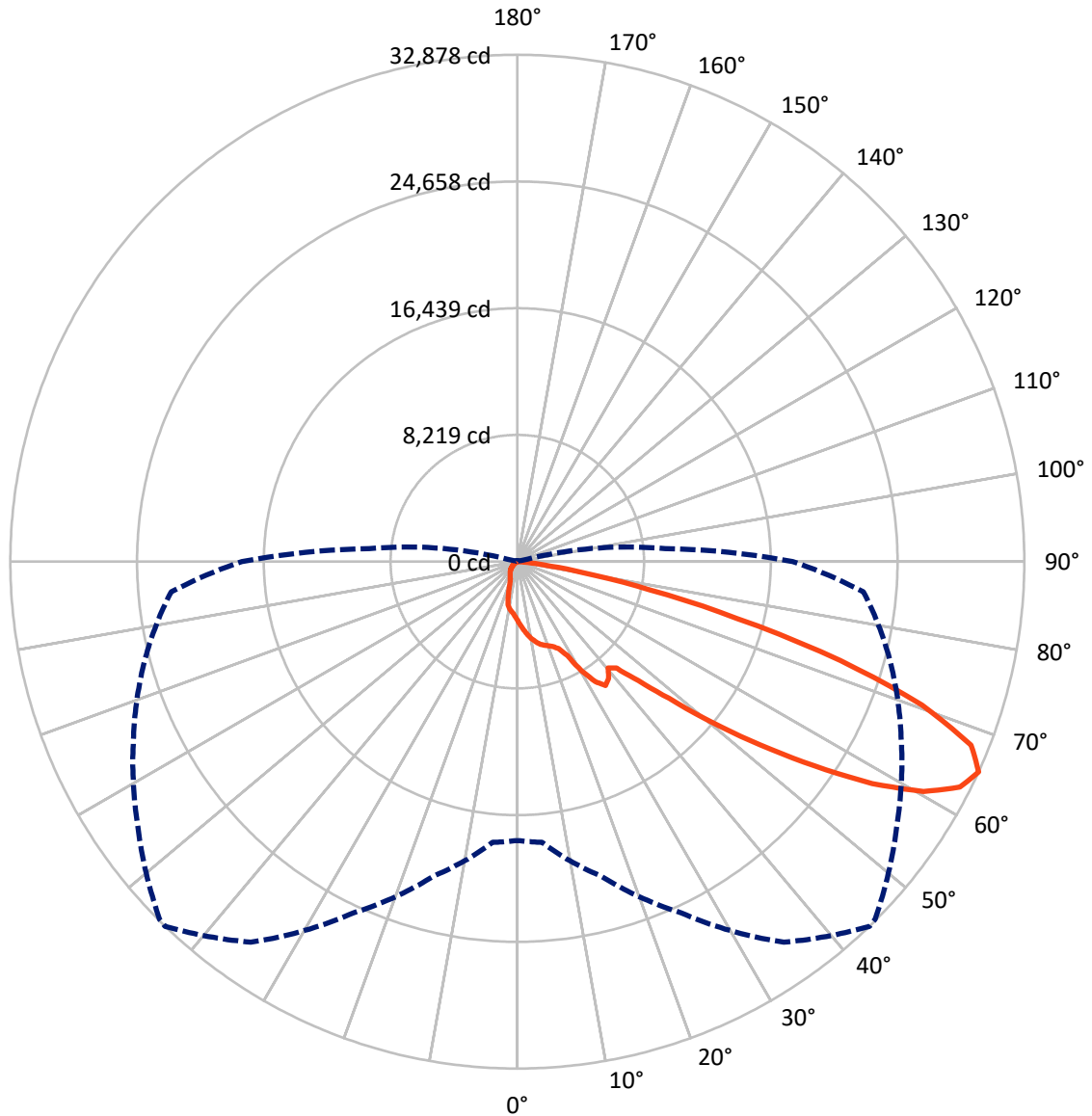
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3783.8	0.0	3783.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	37284.2	0.0	37284.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	41068.0	0.0	41068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	0.9
10°-20°	1144.1	2.8
20°-30°	1940.1	4.7
30°-40°	3225.7	7.9
40°-50°	5632.1	13.7
50°-60°	11003.2	26.8
60°-70°	12766.3	31.1
70°-80°	4648.8	11.3
80°-90°	327.6	0.8
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°	41068.0	100.0
0°-180°	41068.0	100.0

Coefficient of Utilization



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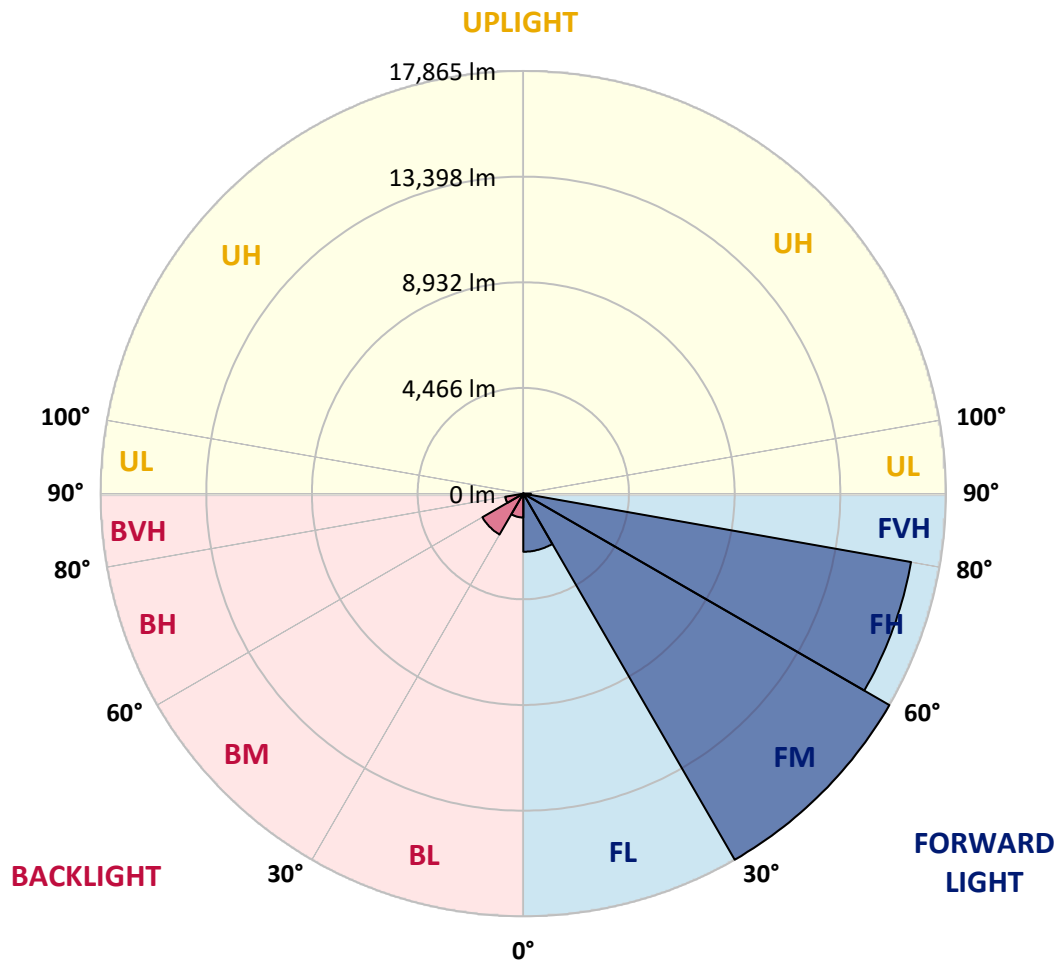
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2456.2	6.0			
FM (30°-60°)	17864.6	43.5			
FH (60°-80°)	16640.2	40.5			G5
FVH (80°-90°)	323.1	0.8			G3/500
BL (0°-30°)	1008.1	2.5	B3/2500		
BM (30°-60°)	1996.3	4.9	B2/2500		
BH (60°-80°)	774.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.5	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°	44°	45°	55°	65°	75°	85°
0°	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2
2.5°	4302.3	4283.5	4274.1	4223.9	4186.2	4139.2	4139.2	4079.5	4010.5	3935.2	3866.1
5°	4782.5	4751.1	4710.3	4666.4	4578.5	4453.0	4453.0	4327.4	4183.1	4054.4	3913.2
7.5°	5243.8	5215.5	5146.5	5061.8	4917.4	4785.6	4776.2	4594.2	4421.6	4227.0	4026.2
10°	5648.6	5626.6	5567.0	5403.8	5253.2	5080.6	5077.4	4873.5	4672.6	4434.1	4186.2
12.5°	5931.0	5934.1	5855.7	5698.8	5504.2	5341.0	5328.5	5127.7	4917.4	4660.1	4355.7
15°	6131.8	6131.8	6050.3	5874.5	5698.8	5554.4	5541.9	5366.2	5149.6	4870.3	4540.8
17.5°	6188.3	6207.2	6119.3	5962.4	5821.2	5695.7	5692.5	5545.0	5372.4	5102.6	4729.1
20°	6166.4	6185.2	6116.2	5993.8	5896.5	5824.3	5814.9	5755.3	5595.2	5341.0	4930.0
22.5°	6119.3	6138.1	6087.9	6015.7	5968.7	5990.6	5974.9	6025.2	5940.4	5632.9	5168.5
25°	6128.7	6147.5	6109.9	6069.1	6109.9	6244.8	6285.6	6502.1	6426.8	6003.2	5425.8
27.5°	6423.7	6461.3	6408.0	6426.8	6571.2	6885.0	6963.4	7336.9	7004.2	6473.9	5827.5
30°	7079.6	7054.4	6954.0	7045.0	7547.1	8212.4	8190.4	8130.8	7609.9	7016.8	6304.4
32.5°	7675.8	7653.8	7647.6	8039.8	8949.9	9273.1	9257.4	8680.0	8152.8	7638.1	6775.2
35°	7917.4	7832.7	7813.9	8764.7	10286.7	9859.9	9762.6	8905.9	8811.8	8316.0	7255.3
37.5°	8645.5	8585.8	8294.0	8884.0	9753.2	9612.0	9536.7	9295.1	9514.7	8915.3	7798.2
40°	10145.5	9979.2	9715.6	9138.1	8996.9	9056.6	9131.9	9794.0	10346.3	9734.4	8523.1
42.5°	12009.5	11971.9	11482.3	10405.9	9348.4	9430.0	9527.3	10835.9	11541.9	10967.7	9706.1
45°	14247.0	14300.3	13594.3	12323.3	10936.3	11005.3	11146.5	12373.5	13161.2	12885.0	11567.0
47.5°	16280.5	16239.7	16001.2	14680.0	13399.7	13245.9	13475.0	14347.4	15401.8	15445.7	13876.7
50°	18326.5	18543.0	18188.4	17670.6	16719.8	16396.6	16311.8	16738.6	18345.3	18135.1	16650.8
52.5°	21266.9	21379.9	20714.6	20582.8	20799.3	19751.2	19666.5	19770.0	21207.3	20485.5	18728.2
55°	23115.2	23049.3	22801.4	23830.7	24687.4	23378.8	23272.2	22854.8	23582.8	22145.6	20727.2
57.5°	23698.9	23793.1	24370.5	26231.4	28258.6	27147.7	26953.1	25766.9	25296.2	23692.7	22566.1
60°	23438.5	23611.1	24856.9	27624.7	30436.4	30270.1	30103.8	28111.1	26526.4	24985.6	23855.8
62.5°	21583.9	21825.5	23818.2	27376.8	31173.9	32212.6	32005.5	29573.5	27345.4	25613.2	24081.8
65°	18088.0	18266.9	21128.8	25126.8	30125.8	32877.9	32802.6	30031.6	27474.1	25038.9	22534.7
67.5°	12894.5	13503.2	16154.9	21175.9	27025.3	31741.9	31870.5	29482.5	26265.9	22556.7	18662.3
70°	8105.7	8519.9	10421.6	15160.2	21665.4	27847.5	28271.1	26968.8	22795.2	17582.8	12492.8
72.5°	3866.1	4173.7	5529.3	9596.3	15292.0	21910.2	22246.0	22139.3	17626.7	11077.5	6445.7
75°	1722.8	1838.9	2639.1	4898.6	9872.5	14727.1	15596.4	15740.7	11014.7	5419.5	2507.3
77.5°	878.7	881.8	1236.4	2372.4	4930.0	8786.7	8959.3	9464.5	5971.8	2388.1	872.4
80°	467.6	499.0	655.9	1120.3	2557.6	4327.4	4305.5	4732.3	2648.6	1170.5	291.8
82.5°	210.3	232.2	370.3	586.8	1249.0	1641.2	1769.9	1936.2	1136.0	746.9	128.7
85°	62.8	75.3	182.0	295.0	451.9	473.9	530.3	684.1	643.3	530.3	65.9
87.5°	9.4	9.4	75.3	81.6	65.9	84.7	87.9	97.3	207.1	194.6	34.5
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°	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2	3822.2
2.5°	3828.5	3806.5	3728.1	3662.2	3605.7	3571.2	3530.4	3505.3	3492.7	3483.3	3486.4
5°	3844.2	3790.8	3655.9	3549.2	3467.6	3379.7	3320.1	3285.6	3269.9	3244.8	3244.8
7.5°	3932.0	3847.3	3659.0	3495.8	3354.6	3235.4	3122.4	3081.6	3053.4	3047.1	3040.8
10°	4057.6	3950.9	3693.5	3467.6	3266.8	3103.6	2943.5	2802.3	2692.5	2626.6	2617.2
12.5°	4214.5	4060.7	3746.9	3448.8	3191.4	2902.7	2479.1	2193.5	2002.1	1942.5	1951.9
15°	4358.8	4192.5	3800.2	3433.1	3053.4	2406.9	1926.8	1600.4	1503.1	1493.7	1496.9
17.5°	4531.4	4333.7	3863.0	3411.1	2673.7	1838.9	1431.0	1343.1	1361.9	1393.3	1390.2
20°	4710.3	4484.3	3938.3	3279.3	2133.9	1383.9	1264.7	1274.1	1302.3	1330.6	1336.8
22.5°	4901.7	4656.9	4026.2	2962.4	1628.7	1205.0	1198.8	1211.3	1239.5	1270.9	1277.2
25°	5165.3	4873.5	4092.1	2548.1	1233.3	1114.0	1126.6	1148.5	1173.6	1208.2	1214.4
27.5°	5504.2	5165.3	4126.6	2008.4	1067.0	1032.4	1035.6	1067.0	1098.3	1129.7	1129.7
30°	5943.6	5513.6	4057.6	1518.8	985.4	954.0	941.4	960.3	1001.1	1032.4	1035.6
32.5°	6335.8	5843.1	3875.6	1161.1	925.7	881.8	850.4	853.6	869.3	888.1	891.2
35°	6728.1	6163.2	3564.9	975.9	863.0	812.8	765.7	740.6	728.0	718.6	728.0
37.5°	7230.2	6561.8	3150.7	888.1	809.6	746.9	681.0	627.6	583.7	555.4	561.7
40°	7876.6	7114.1	2661.1	831.6	759.4	684.1	596.2	527.2	451.9	426.8	414.2
42.5°	8943.6	7951.9	2146.5	784.5	709.2	618.2	508.4	414.2	345.2	320.1	326.4
45°	10628.7	9009.5	1653.8	734.3	659.0	546.0	426.8	326.4	269.9	257.3	263.6
47.5°	12863.1	10377.7	1274.1	677.8	596.2	467.6	335.8	257.3	222.8	219.7	216.5
50°	14965.6	11651.8	1063.8	615.1	520.9	389.1	276.2	216.5	194.6	191.4	191.4
52.5°	16867.3	12565.0	866.1	542.9	439.3	320.1	232.2	191.4	172.6	163.2	163.2
55°	18558.7	13161.2	702.9	455.0	345.2	254.2	200.8	172.6	150.6	138.1	134.9
57.5°	19835.9	13233.4	527.2	364.0	257.3	197.7	172.6	150.6	125.5	109.8	103.6
60°	20382.0	12608.9	389.1	276.2	191.4	156.9	138.1	122.4	94.1	78.5	75.3
62.5°	19832.8	11394.4	288.7	210.3	147.5	116.1	97.3	91.0	65.9	47.1	43.9
65°	17865.2	9640.2	229.1	160.0	109.8	84.7	62.8	59.6	40.8	22.0	18.8
67.5°	14312.9	7550.3	182.0	119.2	78.5	56.5	40.8	37.7	22.0	6.3	6.3
70°	9307.6	4826.4	147.5	87.9	50.2	37.7	25.1	18.8	12.6	3.1	0.0
72.5°	4603.6	2256.3	119.2	69.0	34.5	18.8	9.4	6.3	9.4	0.0	0.0
75°	1785.6	803.4	87.9	47.1	18.8	9.4	6.3	0.0	3.1	0.0	0.0
77.5°	593.1	266.7	53.3	25.1	12.6	6.3	0.0	0.0	0.0	0.0	0.0
80°	219.7	103.6	28.2	15.7	6.3	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	87.9	40.8	18.8	12.6	6.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.9	25.1	12.6	9.4	6.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.4	18.8	12.6	9.4	6.3	3.1	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)