

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: P456419

Luminaire Tested: **GALN-SA7C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456419
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-SA7C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 30466 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

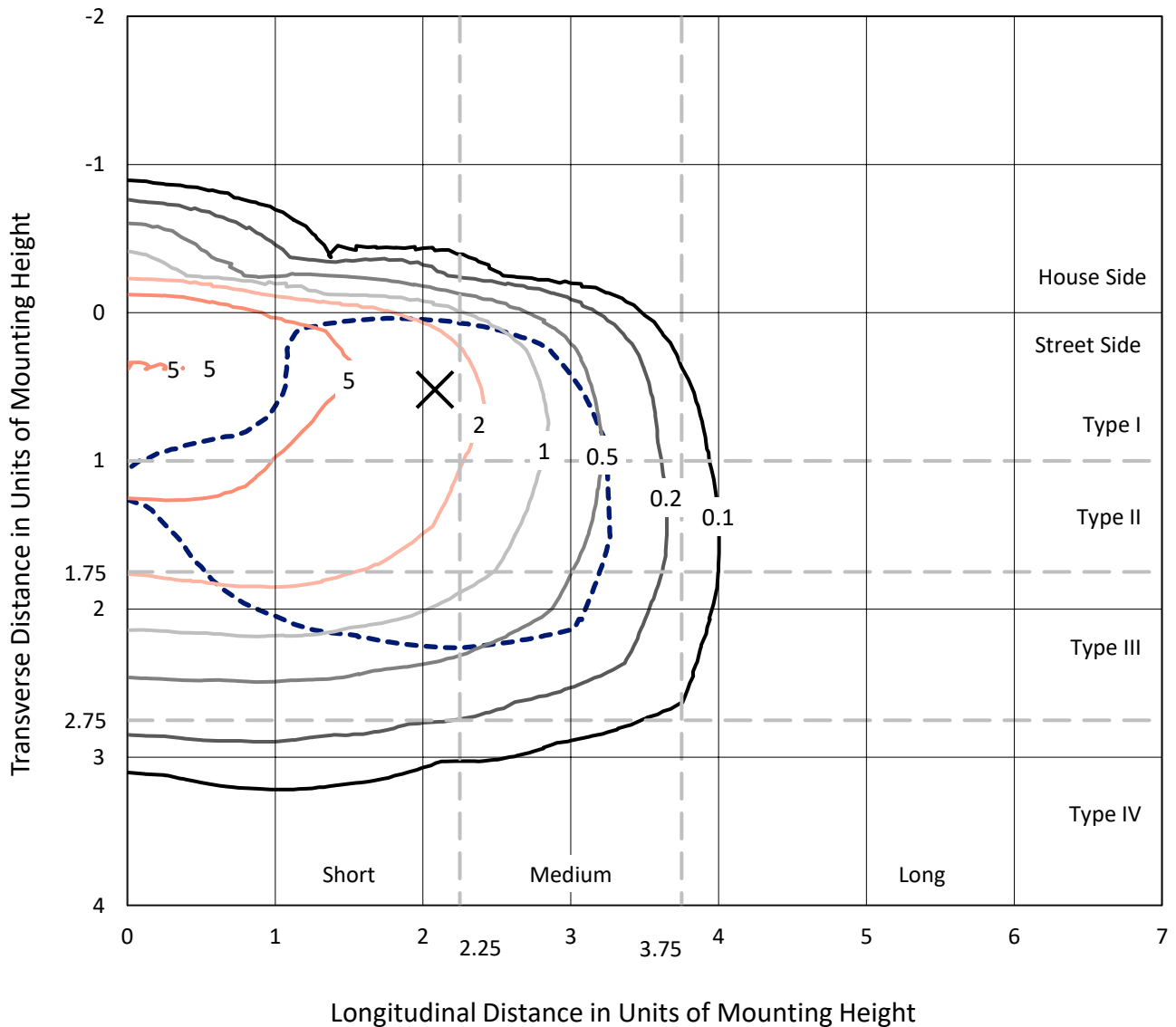
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

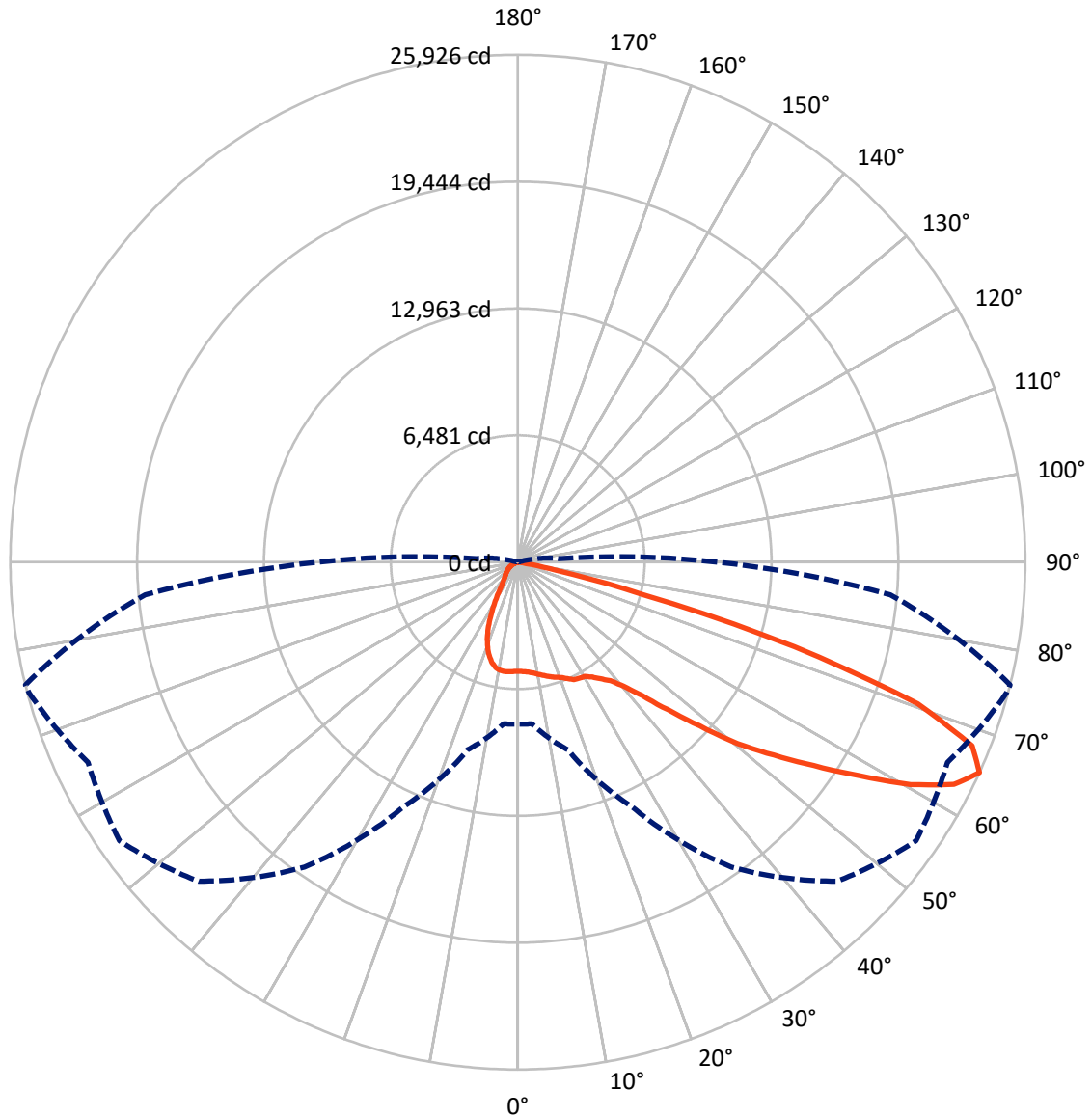
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	2200.3	0.0	2200.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28265.7	0.0	28265.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	30466.0	0.0	30466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.1	1.5
10°-20°	1022.2	3.4
20°-30°	1647.2	5.4
30°-40°	2864.1	9.4
40°-50°	4732.8	15.5
50°-60°	7311.1	24.0
60°-70°	8928.0	29.3
70°-80°	3388.4	11.1
80°-90°	113.1	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°	30466.0	100.0
0°-180°	30466.0	100.0



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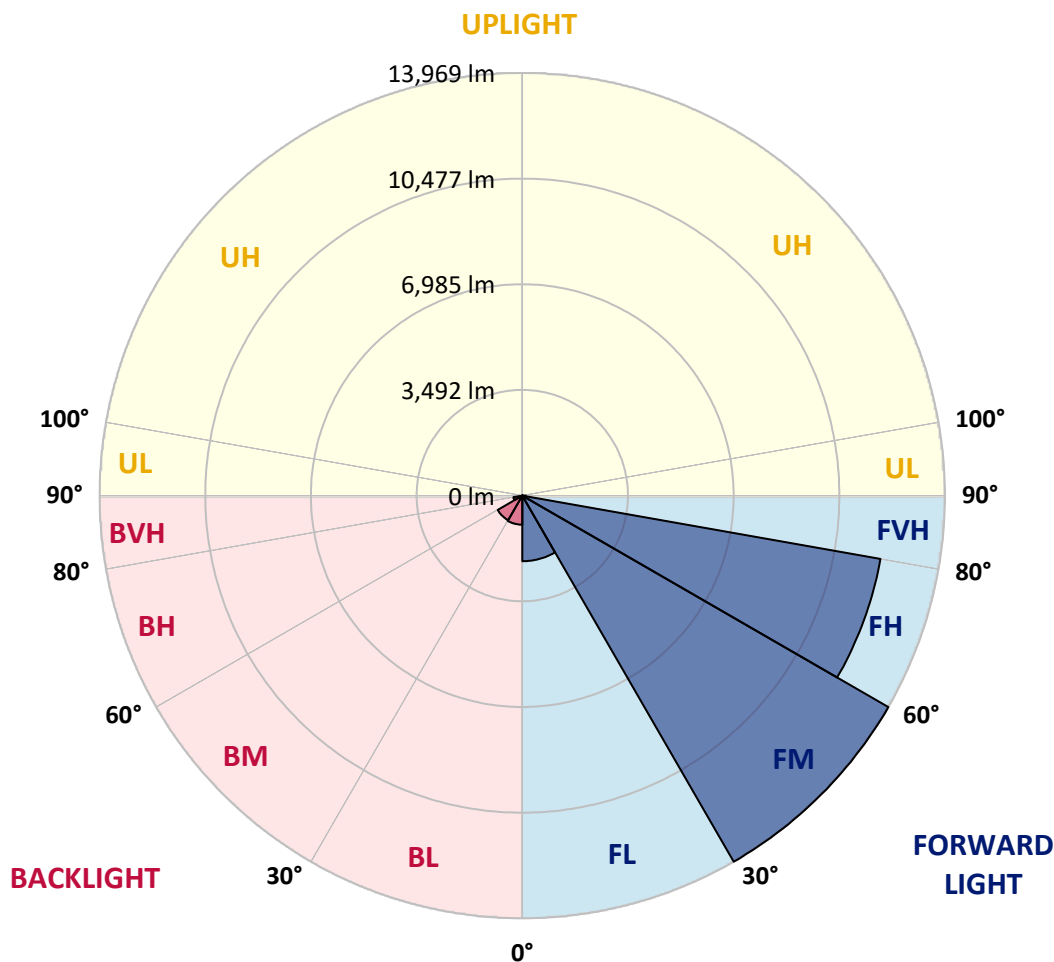
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2167.3	7.1			
FM (30°-60°)	13969.1	45.9			
FH (60°-80°)	12017.8	39.4			G5
FVH (80°-90°)	111.5	0.4			G2/225
BL (0°-30°)	961.2	3.2	B2/1000		
BM (30°-60°)	938.9	3.1	B1/1000		
BH (60°-80°)	298.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2
2.5°	5325.8	5328.0	5340.9	5373.2	5422.6	5463.5	5497.9	5553.8	5592.6	5596.9	5609.8
5°	4958.0	4932.2	4958.0	5041.9	5117.2	5231.2	5371.0	5510.8	5635.6	5644.2	5704.4
7.5°	4545.0	4566.5	4607.4	4693.5	4835.4	5009.6	5211.8	5461.4	5698.0	5719.5	5837.8
10°	4125.6	4172.9	4239.6	4370.8	4568.7	4794.5	5069.9	5426.9	5796.9	5827.0	6031.4
12.5°	3738.4	3759.9	3841.7	4018.0	4263.3	4581.6	4962.3	5407.6	5906.6	5943.2	6237.9
15°	3441.6	3469.5	3540.5	3699.7	3972.9	4381.6	4874.1	5401.1	6014.2	6065.8	6444.4
17.5°	3385.7	3402.9	3433.0	3540.5	3779.3	4222.4	4794.5	5399.0	6117.4	6179.8	6635.8
20°	3615.8	3600.7	3570.6	3559.9	3691.1	4099.8	4736.5	5416.2	6216.3	6287.3	6838.0
22.5°	4192.3	4211.6	4035.2	3826.6	3783.6	4080.4	4727.9	5497.9	6373.4	6457.3	7063.8
25°	5416.2	5267.8	4992.4	4493.4	4117.0	4198.7	4824.7	5691.5	6556.2	6648.7	7268.2
27.5°	6769.2	6724.0	6295.9	5474.3	4773.0	4448.2	4996.7	5839.9	6616.4	6711.1	7384.3
30°	8098.5	8152.2	7661.8	6754.1	5725.9	4910.7	5158.1	5895.9	6670.2	6769.2	7532.8
32.5°	9331.0	9395.5	8965.3	8066.2	6848.7	5710.9	5435.5	6113.1	6896.1	6997.2	7780.1
35°	10301.1	10309.7	9984.9	9268.6	8074.8	6683.1	6035.7	6493.8	7201.5	7319.8	8042.5
37.5°	11191.6	11178.7	10797.9	10180.6	9096.5	7648.9	6790.7	6932.6	7550.0	7672.6	8421.1
40°	11851.9	11860.5	11737.9	11157.2	10049.4	8541.6	7388.6	7343.5	8135.0	8326.5	8971.8
42.5°	12292.9	12372.5	12432.7	12138.0	11247.5	9640.7	8307.1	8223.2	9150.3	9309.5	9750.4
45°	12649.9	12791.9	13093.0	13078.0	12398.3	10989.4	9567.6	9395.5	10589.3	10759.2	10742.0
47.5°	12910.2	13054.3	13553.4	13854.5	13480.2	12297.2	11152.9	11004.4	12307.9	12492.9	11836.9
50°	13043.6	13215.7	13852.3	14435.3	14325.6	13557.7	12959.7	12968.3	14383.6	14562.2	13106.0
52.5°	12731.7	12955.4	14011.5	15061.2	15274.1	14764.4	14652.5	14936.4	16231.3	16384.1	14252.4
55°	11735.8	12017.6	13794.3	15594.6	16373.3	16188.3	16575.5	17007.8	18251.1	18350.1	15429.0
57.5°	11105.5	11404.5	13153.3	16048.5	17694.0	17977.9	18591.0	18907.2	20335.4	20587.1	16779.8
60°	10574.2	10808.7	12626.3	16145.3	19036.2	20167.6	20763.5	21090.4	22908.0	23071.5	18266.2
62.5°	9690.2	9959.1	11735.8	15469.9	19711.6	21920.7	23155.4	23009.1	24897.7	25011.7	19178.2
65°	8268.4	8292.0	9928.9	13772.8	19014.7	23058.6	24835.3	24222.2	25848.4	25925.8	19107.2
67.5°	6171.2	6399.2	7638.1	10825.9	16061.4	22086.3	25379.5	24254.5	25248.3	25033.2	17590.8
70°	3975.0	4149.3	5177.4	7506.9	11580.9	18431.8	23574.8	22591.8	22159.5	21681.9	14398.7
72.5°	1834.8	2058.5	3075.9	4289.1	6868.1	13129.6	19137.3	18354.4	15949.6	14770.8	9152.4
75°	800.2	856.1	1518.6	2262.8	3220.0	6943.4	12617.7	11393.8	7203.7	6579.9	3663.1
77.5°	488.3	524.8	795.9	1213.2	1264.8	2645.7	6797.1	4970.9	2226.3	1963.8	993.8
80°	331.3	372.1	578.6	634.5	432.3	737.8	2551.1	1327.2	449.6	430.2	212.9
82.5°	161.3	204.3	428.0	354.9	187.1	236.6	742.1	283.9	131.2	122.6	75.3
85°	23.7	40.9	240.9	232.3	83.9	55.9	131.2	71.0	45.2	43.0	34.4
87.5°	0.0	0.0	81.7	36.6	8.6	8.6	15.1	15.1	17.2	15.1	17.2
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°	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2	5573.2
2.5°	5616.2	5627.0	5586.1	5528.0	5465.7	5403.3	5315.1	5235.5	5188.2	5216.1	5147.3
5°	5717.3	5708.7	5601.2	5424.8	5190.3	4908.5	4628.9	4390.2	4312.7	4196.6	4183.7
7.5°	5857.1	5833.5	5605.5	5201.1	4671.9	4142.8	3626.6	3284.6	3088.8	2923.2	2927.5
10°	6052.9	5984.0	5556.0	4807.5	3936.3	3138.3	2480.1	2028.4	1832.6	1770.3	1720.8
12.5°	6255.1	6121.7	5418.3	4276.2	3065.2	2144.5	1507.8	1232.5	1112.1	1073.3	1069.0
15°	6435.7	6225.0	5177.4	3637.3	2228.4	1370.2	1028.2	937.8	922.8	924.9	922.8
17.5°	6614.3	6306.7	4844.0	2959.8	1514.3	983.0	884.1	862.5	869.0	877.6	875.5
20°	6762.7	6323.9	4418.1	2258.5	1071.2	862.5	830.3	826.0	832.4	838.9	838.9
22.5°	6924.0	6336.8	3912.6	1563.8	875.5	802.3	785.1	785.1	793.7	802.3	804.5
25°	7044.5	6265.8	3308.2	1122.8	772.2	744.2	735.6	737.8	746.4	750.7	748.5
27.5°	7063.8	6065.8	2667.2	860.4	701.2	673.3	664.7	673.3	662.5	669.0	664.7
30°	7081.0	5812.0	2017.6	724.9	636.7	593.7	580.8	567.9	559.3	548.5	546.4
32.5°	7134.8	5513.0	1473.4	651.7	576.5	529.1	499.0	462.5	434.5	425.9	423.7
35°	7158.5	5153.8	1081.9	593.7	522.7	471.1	417.3	365.7	324.8	309.7	320.5
37.5°	7248.8	4805.3	838.9	550.7	475.4	410.8	342.0	277.5	238.8	230.2	234.5
40°	7433.8	4426.7	703.4	514.1	434.5	354.9	271.0	208.6	182.8	174.2	172.1
42.5°	7730.6	4050.3	625.9	479.7	393.6	299.0	212.9	163.5	142.0	135.5	135.5
45°	8092.0	3688.9	572.2	443.1	350.6	240.9	167.8	131.2	118.3	114.0	114.0
47.5°	8567.4	3372.7	527.0	406.5	303.3	191.4	135.5	114.0	105.4	107.5	109.7
50°	9049.2	3138.3	477.5	365.7	249.5	157.0	116.2	101.1	98.9	101.1	101.1
52.5°	9412.7	3000.6	410.8	309.7	195.7	131.2	103.2	94.6	92.5	88.2	88.2
55°	9903.1	2970.5	326.9	251.7	154.9	109.7	92.5	86.0	79.6	75.3	73.1
57.5°	10533.4	3004.9	251.7	195.7	120.5	90.3	81.7	71.0	62.4	53.8	53.8
60°	10924.9	2927.5	195.7	150.6	88.2	73.1	62.4	51.6	40.9	34.4	32.3
62.5°	10800.1	2600.5	154.9	111.9	62.4	53.8	40.9	34.4	23.7	17.2	15.1
65°	10157.0	2099.4	124.8	77.4	45.2	32.3	21.5	21.5	10.8	2.2	0.0
67.5°	8890.0	1555.2	98.9	51.6	25.8	15.1	10.8	6.5	0.0	0.0	0.0
70°	7235.9	1122.8	77.4	32.3	15.1	10.8	4.3	2.2	0.0	0.0	0.0
72.5°	4594.5	643.1	60.2	19.4	10.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	1776.7	251.7	40.9	12.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	503.3	118.3	23.7	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	131.2	51.6	12.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	21.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.6	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	2.2	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)