

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: P457322

Luminaire Tested: **GALN-SA8C-827-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457322
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-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 30190 lumens
Efficiency: N/A
Efficacy: 70.4 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

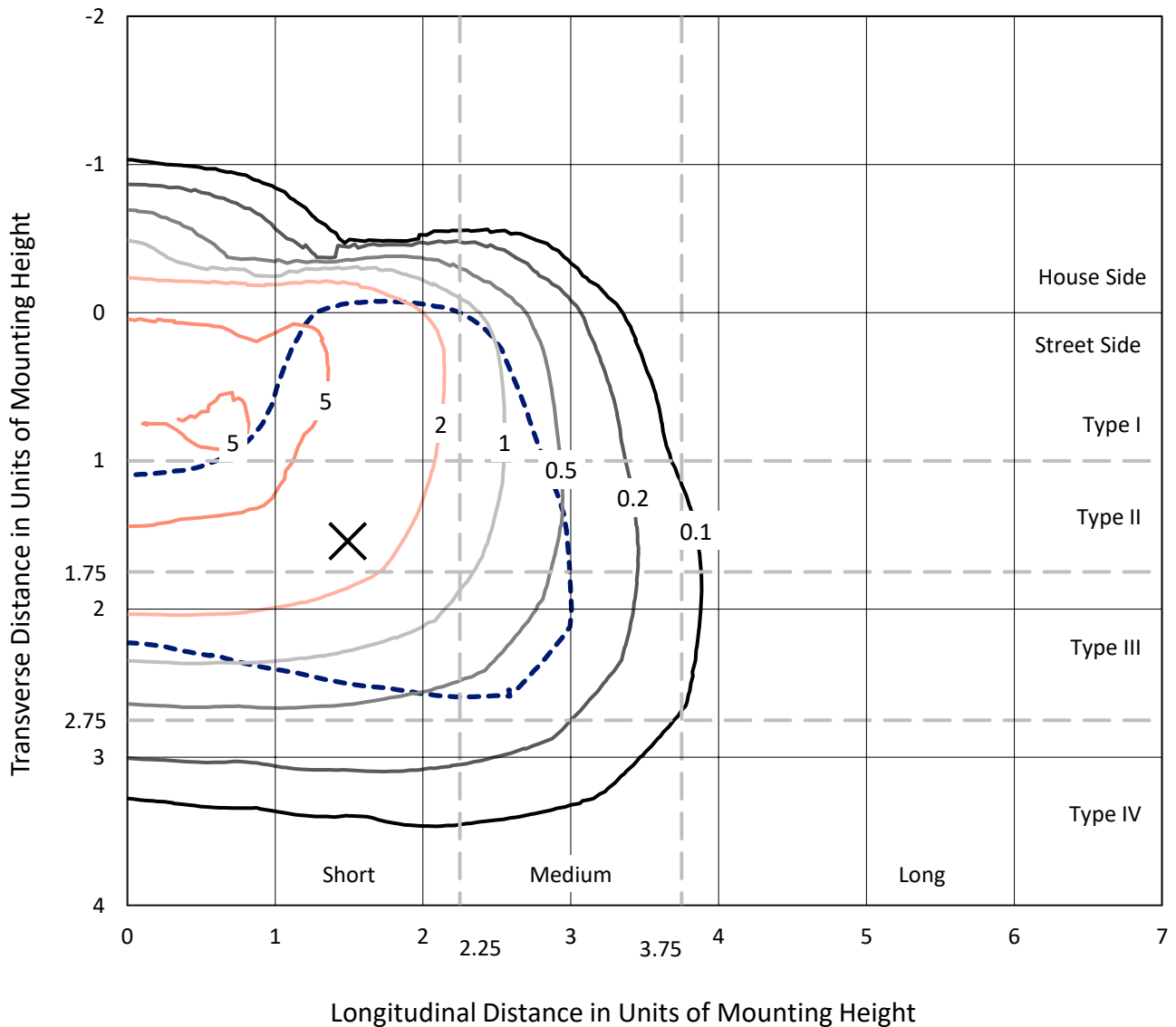
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

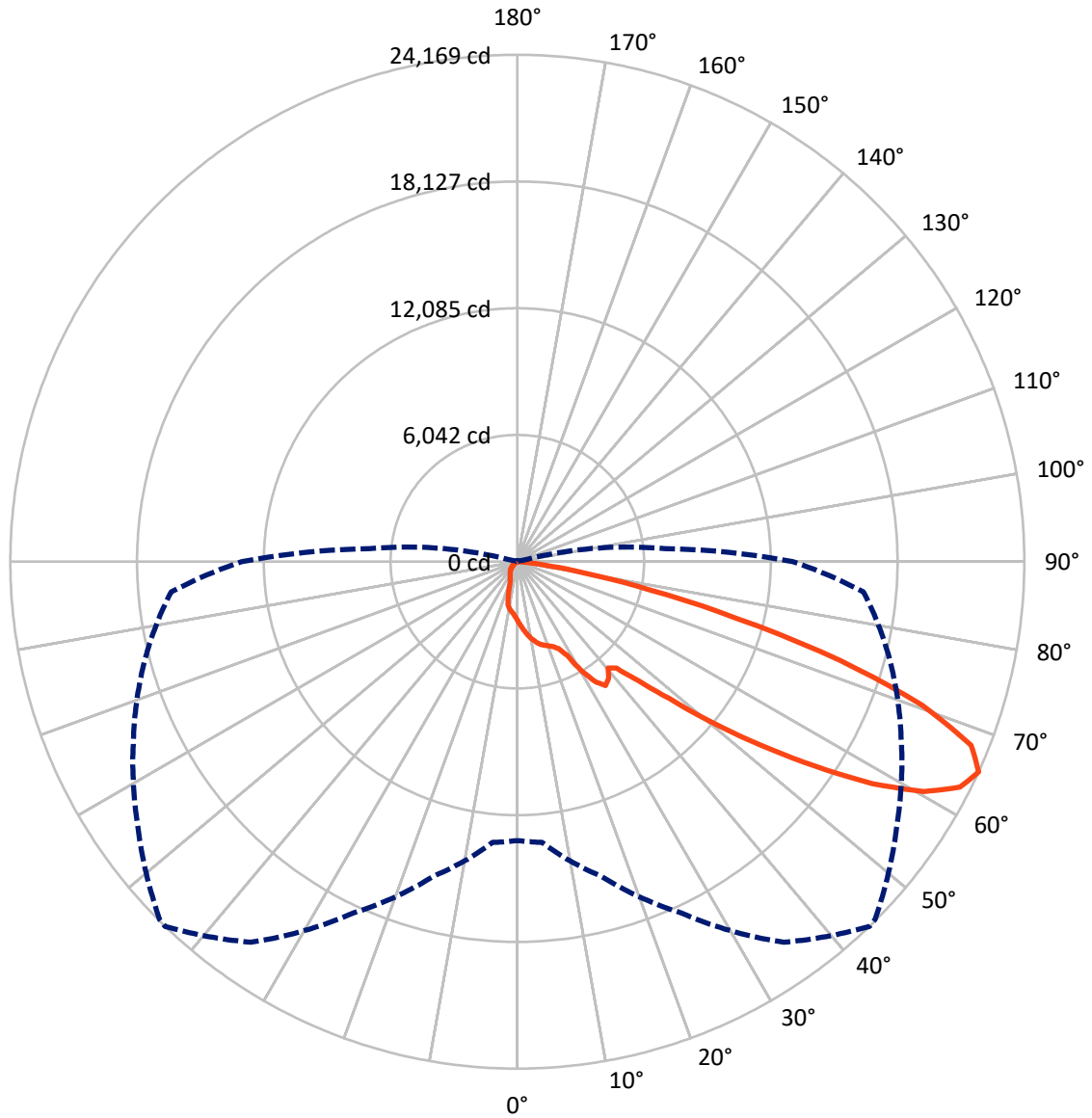
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2781.5	0.0	2781.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	27408.4	0.0	27408.4
	% Fixture	90.8	0.0	90.8
Total	Lumens	30190.0	0.0	30190.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	0.9
10°-20°	841.1	2.8
20°-30°	1426.2	4.7
30°-40°	2371.3	7.9
40°-50°	4140.3	13.7
50°-60°	8088.7	26.8
60°-70°	9384.8	31.1
70°-80°	3417.5	11.3
80°-90°	240.8	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°	30190.0	100.0
0°-180°	30190.0	100.0

Coefficient of Utilization



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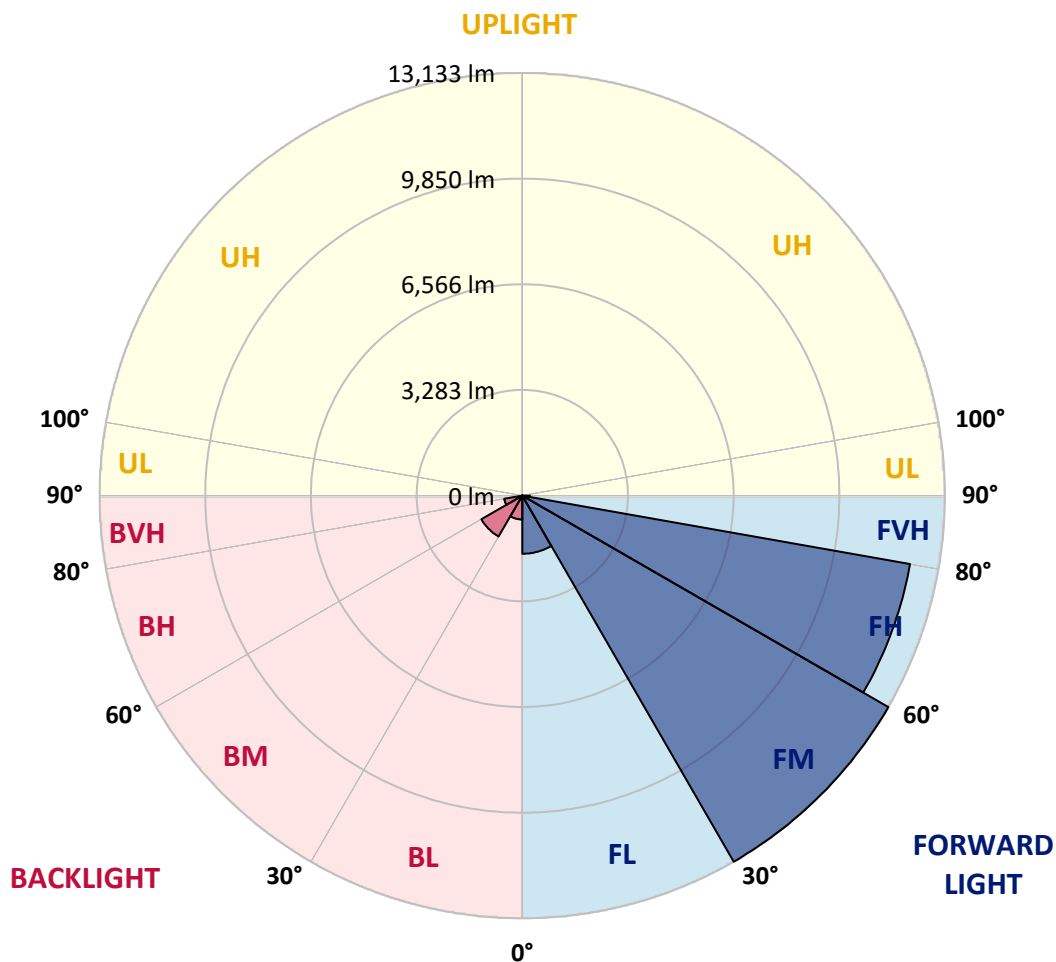
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1805.6	6.0			
FM	(30°-60°)	13132.7	43.5			
FH	(60°-80°)	12232.6	40.5			G5
FVH	(80°-90°)	237.5	0.8			G3/500
BL	(0°-30°)	741.1	2.5	B2/1000		
BM	(30°-60°)	1467.6	4.9	B2/2500		
BH	(60°-80°)	569.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.3	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°	44°	45°	55°	65°	75°	85°
0°	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8
2.5°	3162.7	3148.9	3142.0	3105.1	3077.4	3042.8	3042.8	2999.0	2948.2	2892.8	2842.1
5°	3515.7	3492.6	3462.6	3430.3	3365.7	3273.5	3273.5	3181.2	3075.1	2980.5	2876.7
7.5°	3854.8	3834.0	3783.3	3721.0	3614.9	3518.0	3511.1	3377.3	3250.4	3107.4	2959.7
10°	4152.4	4136.2	4092.4	3972.5	3861.7	3734.9	3732.5	3582.6	3435.0	3259.6	3077.4
12.5°	4360.0	4362.3	4304.7	4189.3	4046.3	3926.3	3917.1	3769.5	3614.9	3425.7	3202.0
15°	4507.7	4507.7	4447.7	4318.5	4189.3	4083.2	4074.0	3944.8	3785.6	3580.3	3338.1
17.5°	4549.2	4563.0	4498.4	4383.1	4279.3	4187.0	4184.7	4076.3	3949.4	3751.0	3476.5
20°	4533.0	4546.9	4496.1	4406.2	4334.6	4281.6	4274.7	4230.8	4113.2	3926.3	3624.1
22.5°	4498.4	4512.3	4475.4	4422.3	4387.7	4403.8	4392.3	4429.2	4366.9	4140.9	3799.4
25°	4505.4	4519.2	4491.5	4461.5	4491.5	4590.7	4620.7	4779.9	4724.5	4413.1	3988.6
27.5°	4722.2	4749.9	4710.7	4724.5	4830.6	5061.3	5119.0	5393.5	5149.0	4759.1	4283.9
30°	5204.3	5185.9	5112.1	5179.0	5548.1	6037.1	6021.0	5977.1	5594.2	5158.2	4634.5
32.5°	5642.6	5626.5	5621.9	5910.2	6579.2	6816.9	6805.3	6380.9	5993.3	5615.0	4980.6
35°	5820.3	5758.0	5744.1	6443.1	7562.0	7248.2	7176.7	6546.9	6477.7	6113.3	5333.5
37.5°	6355.5	6311.6	6097.1	6530.8	7169.8	7066.0	7010.6	6833.0	6994.5	6553.9	5732.6
40°	7458.2	7335.9	7142.1	6717.7	6613.8	6657.7	6713.0	7199.8	7605.8	7156.0	6265.5
42.5°	8828.5	8800.8	8440.9	7649.6	6872.2	6932.2	7003.7	7965.7	8484.7	8062.6	7135.2
45°	10473.3	10512.5	9993.4	9059.1	8039.5	8090.3	8194.1	9096.1	9675.1	9472.1	8503.2
47.5°	11968.1	11938.1	11762.8	10791.6	9850.4	9737.4	9905.8	10547.1	11322.2	11354.5	10201.1
50°	13472.2	13631.4	13370.7	12990.1	12291.1	12053.5	11991.2	12304.9	13486.1	13331.5	12240.3
52.5°	15633.8	15716.8	15227.8	15130.9	15290.0	14519.5	14457.3	14533.4	15589.9	15059.4	13767.5
55°	16992.5	16944.1	16761.8	17518.5	18148.3	17186.3	17107.9	16801.1	17336.3	16279.7	15237.0
57.5°	17421.6	17490.8	17915.3	19283.3	20773.5	19956.9	19813.9	18941.9	18595.8	17417.0	16588.8
60°	17230.1	17357.0	18272.9	20307.5	22374.5	22252.2	22130.0	20665.1	19500.1	18367.4	17537.0
62.5°	15866.8	16044.4	17509.3	20125.3	22916.6	23680.2	23527.9	21740.1	20102.2	18828.8	17703.1
65°	13296.9	13428.4	15532.3	18471.2	22146.1	24169.3	24113.9	22076.9	20196.8	18406.7	16565.8
67.5°	9479.0	9926.5	11875.9	15566.9	19866.9	23334.2	23428.7	21673.2	19308.6	16581.9	13719.1
70°	5958.7	6263.2	7661.2	11144.6	15926.7	20471.3	20782.7	19825.4	16757.2	12925.5	9183.7
72.5°	2842.1	3068.2	4064.7	7054.5	11241.5	16106.7	16353.5	16275.1	12957.8	8143.3	4738.3
75°	1266.5	1351.8	1940.1	3601.1	7257.5	10826.2	11465.2	11571.3	8097.2	3984.0	1843.2
77.5°	645.9	648.2	908.9	1744.0	3624.1	6459.3	6586.2	6957.6	4390.0	1755.5	641.3
80°	343.7	366.8	482.1	823.6	1880.1	3181.2	3165.0	3478.8	1947.0	860.5	214.5
82.5°	154.6	170.7	272.2	431.4	918.1	1206.5	1301.1	1423.3	835.1	549.0	94.6
85°	46.1	55.4	133.8	216.8	332.2	348.3	389.9	502.9	472.9	389.9	48.4
87.5°	6.9	6.9	55.4	60.0	48.4	62.3	64.6	71.5	152.3	143.0	25.4
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°	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8	2809.8
2.5°	2814.4	2798.3	2740.6	2692.1	2650.6	2625.2	2595.2	2576.8	2567.6	2560.6	2563.0
5°	2825.9	2786.7	2687.5	2609.1	2549.1	2484.5	2440.7	2415.3	2403.8	2385.3	2385.3
7.5°	2890.5	2828.2	2689.8	2569.9	2466.1	2378.4	2295.4	2265.4	2244.6	2240.0	2235.4
10°	2982.8	2904.4	2715.2	2549.1	2401.5	2281.5	2163.9	2060.1	1979.3	1930.9	1923.9
12.5°	3098.1	2985.1	2754.4	2535.3	2346.1	2133.9	1822.4	1612.5	1471.8	1428.0	1434.9
15°	3204.3	3082.0	2793.6	2523.7	2244.6	1769.4	1416.4	1176.5	1105.0	1098.1	1100.4
17.5°	3331.1	3185.8	2839.8	2507.6	1965.5	1351.8	1051.9	987.3	1001.2	1024.3	1022.0
20°	3462.6	3296.5	2895.1	2410.7	1568.7	1017.3	929.7	936.6	957.4	978.1	982.7
22.5°	3603.4	3423.4	2959.7	2177.7	1197.3	885.8	881.2	890.5	911.2	934.3	938.9
25°	3797.1	3582.6	3008.2	1873.2	906.6	818.9	828.2	844.3	862.8	888.2	892.8
27.5°	4046.3	3797.1	3033.6	1476.4	784.3	759.0	761.3	784.3	807.4	830.5	830.5
30°	4369.2	4053.2	2982.8	1116.5	724.4	701.3	692.1	705.9	735.9	759.0	761.3
32.5°	4657.6	4295.4	2849.0	853.5	680.5	648.2	625.2	627.5	639.0	652.8	655.2
35°	4946.0	4530.7	2620.6	717.4	634.4	597.5	562.9	544.4	535.2	528.3	535.2
37.5°	5315.1	4823.7	2316.1	652.8	595.2	549.0	500.6	461.4	429.1	408.3	412.9
40°	5790.3	5229.7	1956.2	611.3	558.3	502.9	438.3	387.6	332.2	313.7	304.5
42.5°	6574.6	5845.7	1577.9	576.7	521.4	454.5	373.7	304.5	253.8	235.3	239.9
45°	7813.4	6623.1	1215.7	539.8	484.4	401.4	313.7	239.9	198.4	189.2	193.8
47.5°	9455.9	7628.9	936.6	498.3	438.3	343.7	246.8	189.2	163.8	161.5	159.2
50°	11001.5	8565.5	782.0	452.1	382.9	286.1	203.0	159.2	143.0	140.7	140.7
52.5°	12399.5	9236.8	636.7	399.1	323.0	235.3	170.7	140.7	126.9	120.0	120.0
55°	13642.9	9675.1	516.7	334.5	253.8	186.9	147.6	126.9	110.7	101.5	99.2
57.5°	14581.8	9728.1	387.6	267.6	189.2	145.3	126.9	110.7	92.3	80.7	76.1
60°	14983.2	9269.1	286.1	203.0	140.7	115.3	101.5	90.0	69.2	57.7	55.4
62.5°	14579.5	8376.3	212.2	154.6	108.4	85.4	71.5	66.9	48.4	34.6	32.3
65°	13133.1	7086.8	168.4	117.7	80.7	62.3	46.1	43.8	30.0	16.1	13.8
67.5°	10521.7	5550.4	133.8	87.7	57.7	41.5	30.0	27.7	16.1	4.6	4.6
70°	6842.2	3548.0	108.4	64.6	36.9	27.7	18.5	13.8	9.2	2.3	0.0
72.5°	3384.2	1658.7	87.7	50.8	25.4	13.8	6.9	4.6	6.9	0.0	0.0
75°	1312.6	590.6	64.6	34.6	13.8	6.9	4.6	0.0	2.3	0.0	0.0
77.5°	436.0	196.1	39.2	18.5	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	161.5	76.1	20.8	11.5	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.6	30.0	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.3	18.5	9.2	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.1	13.8	9.2	6.9	4.6	2.3	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)