

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: P457316

Luminaire Tested: **GALN-SA8C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30640 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

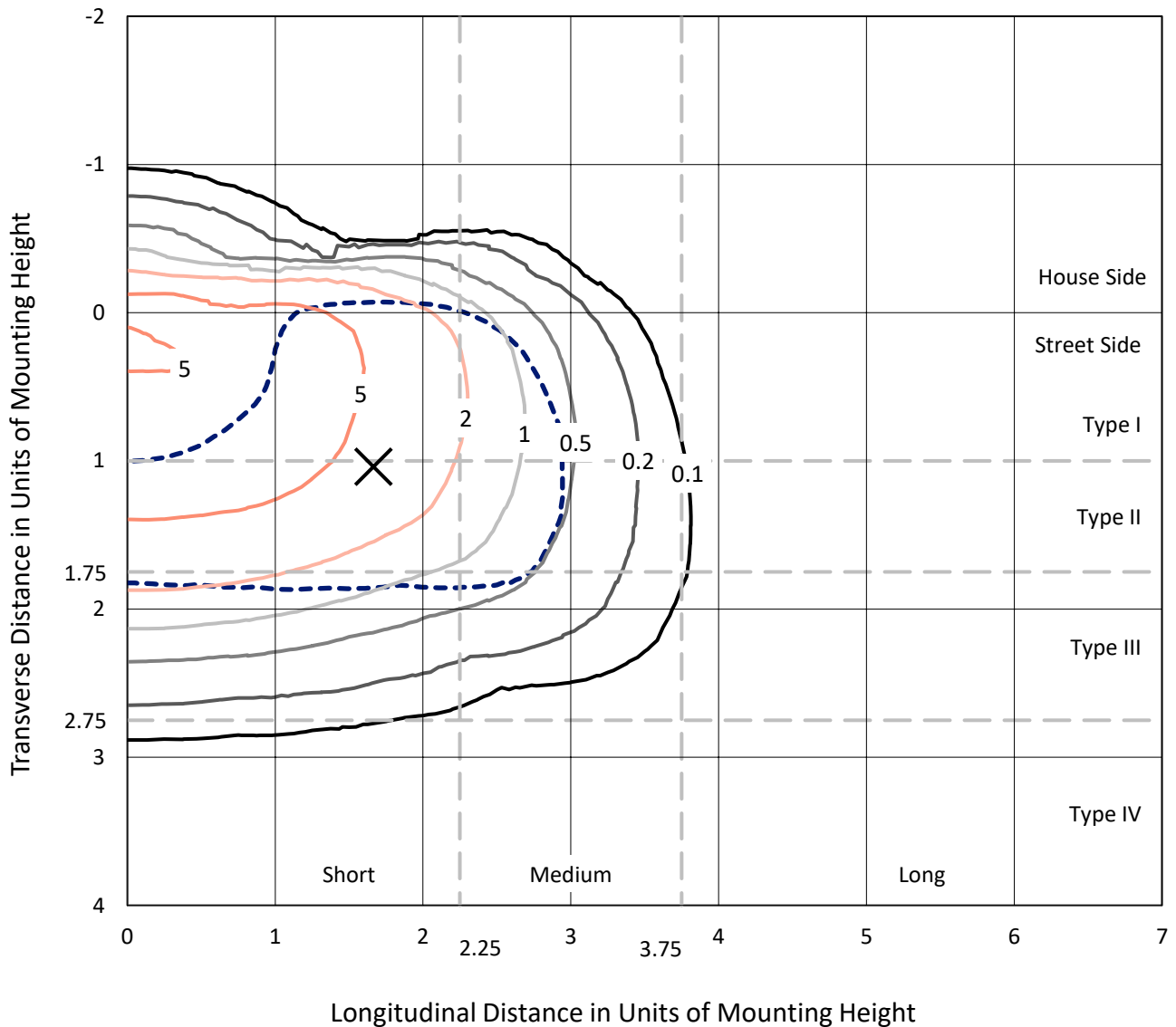
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

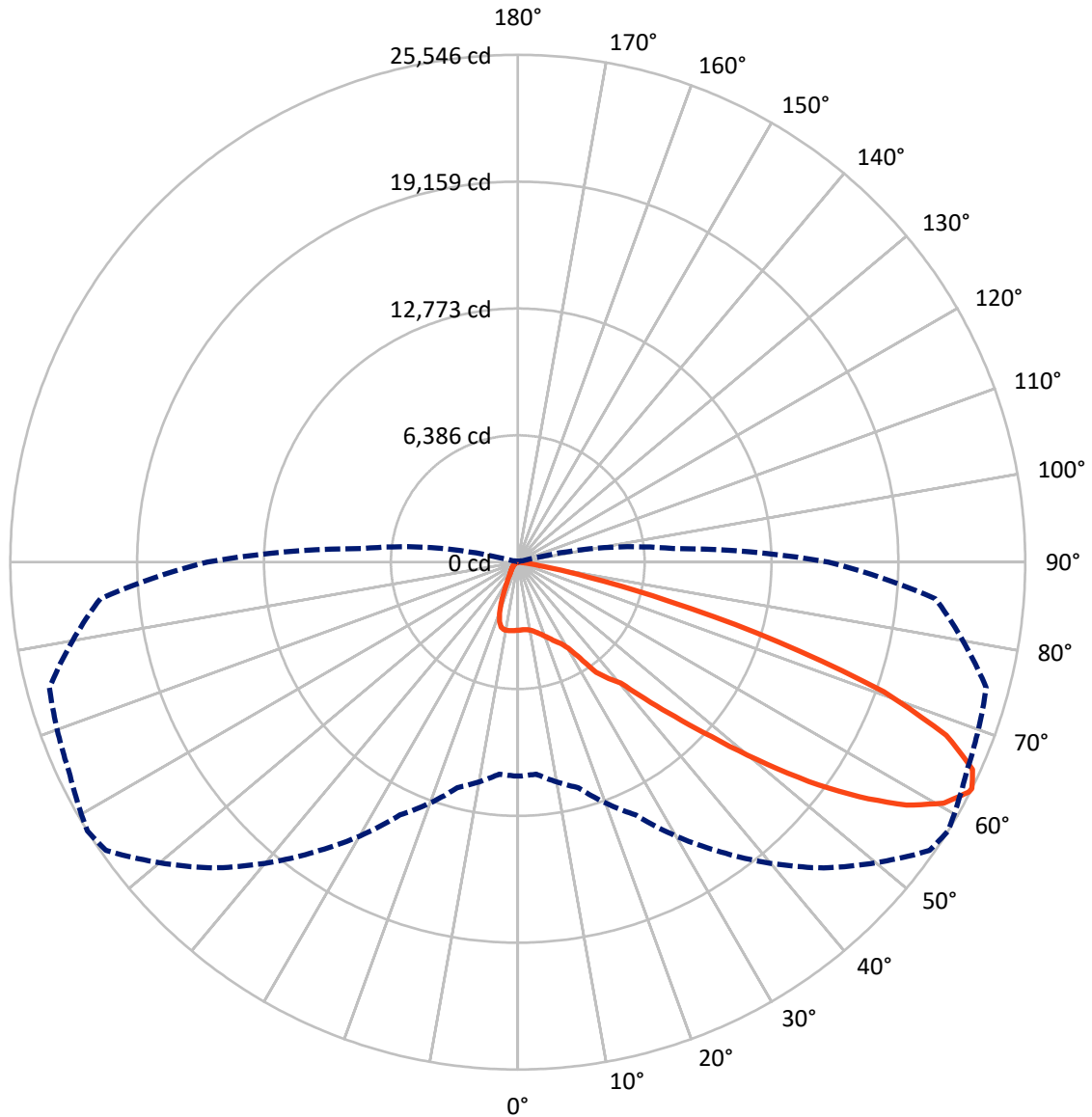
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3172.6	0.0	3172.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27467.4	0.0	27467.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	30640.0	0.0	30640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	1.0
10°-20°	874.6	2.9
20°-30°	1517.9	5.0
30°-40°	2789.4	9.1
40°-50°	5250.9	17.1
50°-60°	8981.3	29.3
60°-70°	8599.6	28.1
70°-80°	2192.9	7.2
80°-90°	112.1	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°	30640.0	100.0
0°-180°	30640.0	100.0

Coefficient of Utilization



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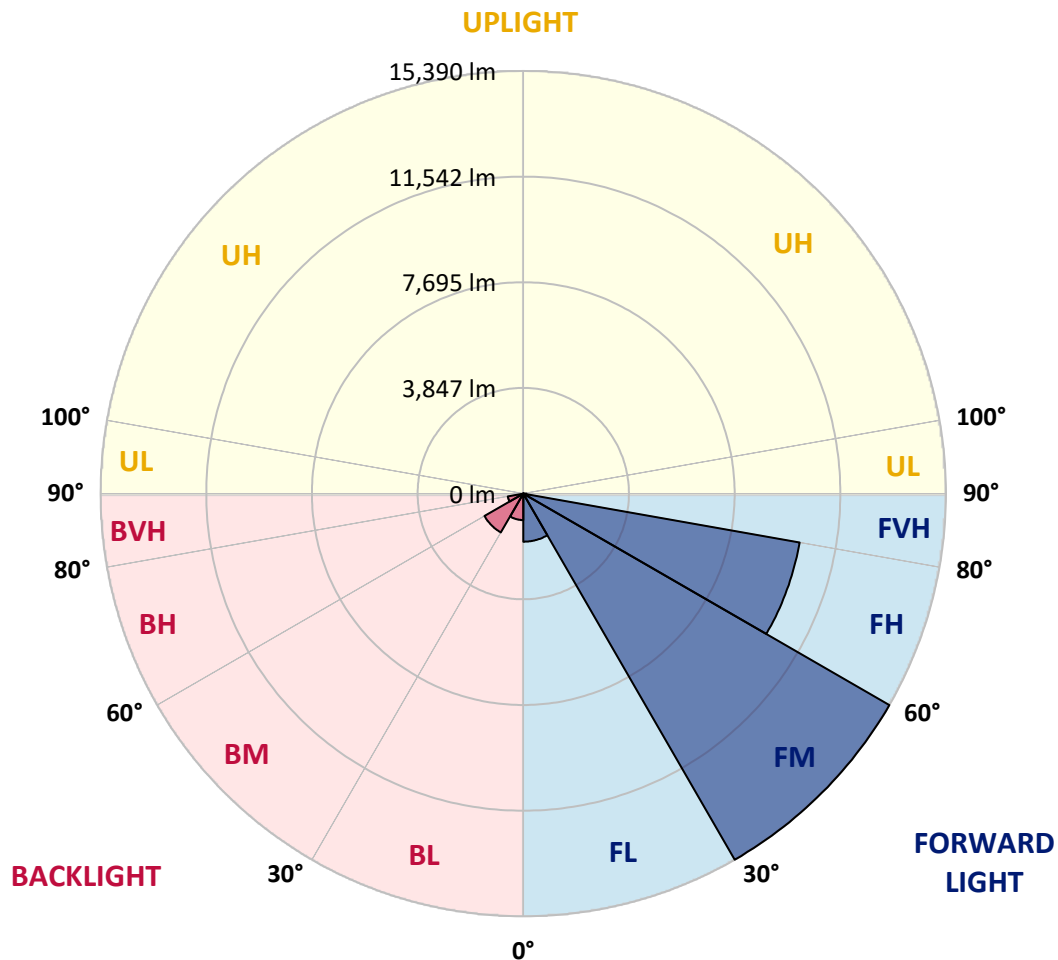
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1751.5	5.7			
FM (30°-60°)	15389.9	50.2			
FH (60°-80°)	10218.3	33.3			G4/12000
FVH (80°-90°)	107.8	0.4			G2/225
BL (0°-30°)	962.2	3.1	B2/1000		
BM (30°-60°)	1631.8	5.3	B2/2500		
BH (60°-80°)	574.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3344.9	3356.4	3368.0	3372.6	3388.7	3404.9	3416.4	3414.1	3432.6	3441.8	3441.8
5°	3211.1	3211.1	3241.1	3268.8	3314.9	3361.1	3404.9	3414.1	3448.7	3481.0	3492.6
7.5°	3098.1	3105.0	3128.1	3178.8	3241.1	3321.8	3409.5	3430.3	3490.2	3561.8	3591.7
10°	3045.0	3049.6	3079.6	3132.7	3211.1	3321.8	3444.1	3483.3	3575.6	3688.6	3730.2
12.5°	3033.5	3040.4	3070.4	3130.4	3220.3	3354.1	3520.2	3561.8	3695.6	3840.9	3903.2
15°	3054.3	3058.9	3088.9	3153.4	3252.6	3411.8	3621.7	3679.4	3838.6	4007.0	4087.7
17.5°	3128.1	3123.5	3144.2	3197.3	3308.0	3483.3	3744.0	3813.2	4000.1	4230.7	4283.8
20°	3441.8	3411.8	3393.4	3347.2	3391.1	3584.8	3891.6	3993.1	4223.8	4459.1	4496.0
22.5°	4117.7	4050.8	3919.3	3739.4	3601.0	3723.2	4069.3	4186.9	4484.5	4715.2	4715.2
25°	4978.2	4892.8	4761.3	4369.1	4030.0	3951.6	4270.0	4417.6	4768.2	5001.2	4925.1
27.5°	6055.4	5988.5	5732.5	5275.7	4756.7	4350.7	4502.9	4639.0	5019.7	5301.1	5141.9
30°	6932.0	6899.7	6689.8	6281.5	5709.4	5116.6	4936.6	5026.6	5354.2	5679.4	5515.6
32.5°	7672.5	7672.5	7458.0	7077.4	6542.2	6016.2	5672.5	5737.1	6050.8	6426.8	6122.3
35°	8486.9	8459.2	8286.2	7924.0	7324.2	6860.5	6719.8	6807.5	7091.2	7370.3	6620.6
37.5°	9342.7	9333.5	9153.5	8802.9	8313.8	7730.2	7400.3	7423.4	7568.7	7739.4	7204.3
40°	10272.3	10286.2	10050.9	9834.0	9372.7	8775.2	8143.1	7997.8	8133.9	8616.0	8281.5
42.5°	11370.4	11338.1	11236.6	10941.3	10569.9	10212.4	9453.4	9400.4	9520.3	10037.0	9674.9
45°	12646.1	12692.2	12516.9	12353.1	12104.0	11806.4	11172.0	11079.7	11211.2	12014.0	11499.6
47.5°	13924.1	13880.2	13993.3	13963.3	14097.1	13875.6	13315.1	13125.9	13441.9	14203.2	13446.6
50°	14897.6	14946.0	15181.3	15525.0	16099.4	16224.0	15686.5	15621.9	15762.6	16251.7	15188.2
52.5°	15529.6	15691.1	16060.2	16943.7	17979.5	18784.6	18376.3	18341.7	18284.0	18415.5	16853.8
55°	15942.6	16106.3	16588.5	17889.5	19672.7	20980.7	21001.4	20853.8	20473.2	20378.6	18410.9
57.5°	15688.8	15721.1	16408.5	18147.9	20611.6	22547.0	23225.2	23077.6	22374.0	22016.5	19785.7
60°	14101.7	14168.6	15125.9	17169.8	20203.3	23059.1	24699.3	24632.4	23861.9	23458.2	20856.1
62.5°	11289.7	11483.4	12468.5	14747.6	18304.8	22196.4	25296.8	25485.9	24886.2	24330.2	21192.9
63°	10772.9	10710.6	11751.0	14041.7	17801.9	21769.6	25306.0	25545.9	24932.3	24413.3	21100.6
65°	7974.7	8161.6	8837.5	11072.8	14814.5	19783.4	24736.2	25160.7	24761.6	24046.5	20078.7
67.5°	4477.6	4468.3	5215.8	7245.8	10369.2	15518.1	22367.1	23264.5	23181.4	21578.2	16643.8
70°	2191.5	2226.1	2532.9	3755.5	6013.9	10706.0	18586.2	19555.1	19585.0	16948.3	11508.8
72.5°	991.9	1008.1	1227.2	1829.3	3091.2	5700.2	12807.6	13732.6	13561.9	10800.6	6355.3
75°	523.7	558.3	675.9	920.4	1490.2	2350.7	6966.6	7861.7	7504.1	4934.3	2339.1
77.5°	387.5	399.1	459.1	585.9	798.2	915.8	3005.8	3575.6	3349.5	1785.5	775.1
80°	283.7	293.0	341.4	415.2	502.9	466.0	1132.7	1298.7	1165.0	606.7	237.6
82.5°	173.0	175.3	249.1	309.1	316.0	260.7	373.7	401.4	419.8	341.4	129.2
85°	62.3	78.4	168.4	223.8	186.9	131.5	156.9	173.0	189.2	216.8	76.1
87.5°	6.9	9.2	80.7	108.4	53.1	48.4	57.7	64.6	69.2	80.7	36.9
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°	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3	3430.3
2.5°	3451.0	3460.3	3453.3	3441.8	3439.5	3432.6	3418.7	3418.7	3418.7	3423.3	3418.7
5°	3501.8	3508.7	3492.6	3469.5	3444.1	3411.8	3377.2	3356.4	3354.1	3349.5	3338.0
7.5°	3598.7	3607.9	3571.0	3515.6	3446.4	3368.0	3294.2	3225.0	3192.7	3167.3	3167.3
10°	3739.4	3748.6	3674.8	3575.6	3437.2	3278.0	3102.7	2943.5	2819.0	2761.3	2747.4
12.5°	3907.8	3912.4	3790.1	3617.1	3388.7	3081.9	2708.2	2359.9	2117.7	2006.9	1995.4
15°	4092.3	4060.0	3898.6	3633.3	3250.3	2678.2	2032.3	1605.6	1354.1	1280.3	1308.0
17.5°	4279.2	4219.2	3981.6	3607.9	2938.9	2032.3	1365.6	1095.7	1017.3	996.6	996.6
20°	4454.5	4371.5	4041.6	3497.2	2399.1	1400.3	1012.7	948.1	934.3	920.4	922.7
22.5°	4629.8	4502.9	4094.6	3250.3	1787.8	1001.2	906.6	885.8	867.4	848.9	846.6
25°	4800.5	4625.2	4115.4	2793.6	1218.0	860.5	828.2	800.5	763.6	742.8	738.2
27.5°	4978.2	4772.8	4101.6	2216.9	888.1	770.5	738.2	699.0	655.1	618.2	618.2
30°	5319.6	5054.3	4053.1	1594.0	747.4	678.2	636.7	574.4	526.0	489.0	486.7
32.5°	5785.5	5421.1	3887.0	1121.1	664.4	597.5	535.2	466.0	415.2	387.5	387.5
35°	6200.8	5790.2	3575.6	825.8	597.5	519.0	442.9	376.0	336.8	318.3	311.4
37.5°	6832.9	6330.0	3146.5	671.3	532.9	449.8	371.4	309.1	276.8	263.0	263.0
40°	7781.0	6989.7	2620.6	588.2	470.6	382.9	309.1	260.7	235.3	219.1	219.1
42.5°	8957.4	7797.1	2087.7	528.3	412.9	329.9	258.4	221.5	198.4	186.9	184.5
45°	10438.4	8648.3	1607.9	472.9	366.8	281.4	219.1	186.9	163.8	156.9	159.2
47.5°	11984.0	9398.1	1245.7	424.5	318.3	237.6	186.9	161.5	145.3	136.1	136.1
50°	13303.5	9914.8	945.8	369.1	281.4	200.7	163.8	145.3	131.5	126.9	124.6
52.5°	14406.2	10064.7	724.3	320.7	246.8	173.0	145.3	131.5	120.0	113.0	113.0
55°	15345.1	9933.2	567.5	269.9	207.6	149.9	129.2	117.6	103.8	96.9	94.6
57.5°	15894.1	9511.1	433.7	223.8	168.4	124.6	113.0	99.2	83.0	71.5	71.5
60°	16170.9	8897.5	332.2	184.5	129.2	99.2	92.3	73.8	57.7	48.4	46.1
62.5°	15838.7	8083.2	251.4	145.3	96.9	73.8	62.3	53.1	36.9	27.7	27.7
63°	15633.4	7847.9	242.2	138.4	90.0	69.2	57.7	48.4	32.3	25.4	23.1
65°	14251.6	6821.3	198.4	110.7	71.5	48.4	39.2	34.6	23.1	11.5	9.2
67.5°	11317.3	5218.1	156.9	83.0	50.8	34.6	23.1	20.8	6.9	0.0	0.0
70°	7651.8	3370.3	122.3	60.0	34.6	20.8	11.5	9.2	2.3	0.0	0.0
72.5°	3990.8	1727.8	94.6	43.8	20.8	13.8	6.9	2.3	0.0	0.0	0.0
75°	1411.8	588.2	69.2	27.7	13.8	6.9	2.3	0.0	0.0	0.0	0.0
77.5°	426.8	219.1	43.8	20.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	149.9	80.7	25.4	13.8	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	73.8	39.2	16.1	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.5	25.4	13.8	11.5	6.9	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	30.0	18.5	13.8	11.5	9.2	4.6	2.3	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)