

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: P456943

Luminaire Tested: **GALN-SA8B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27671 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

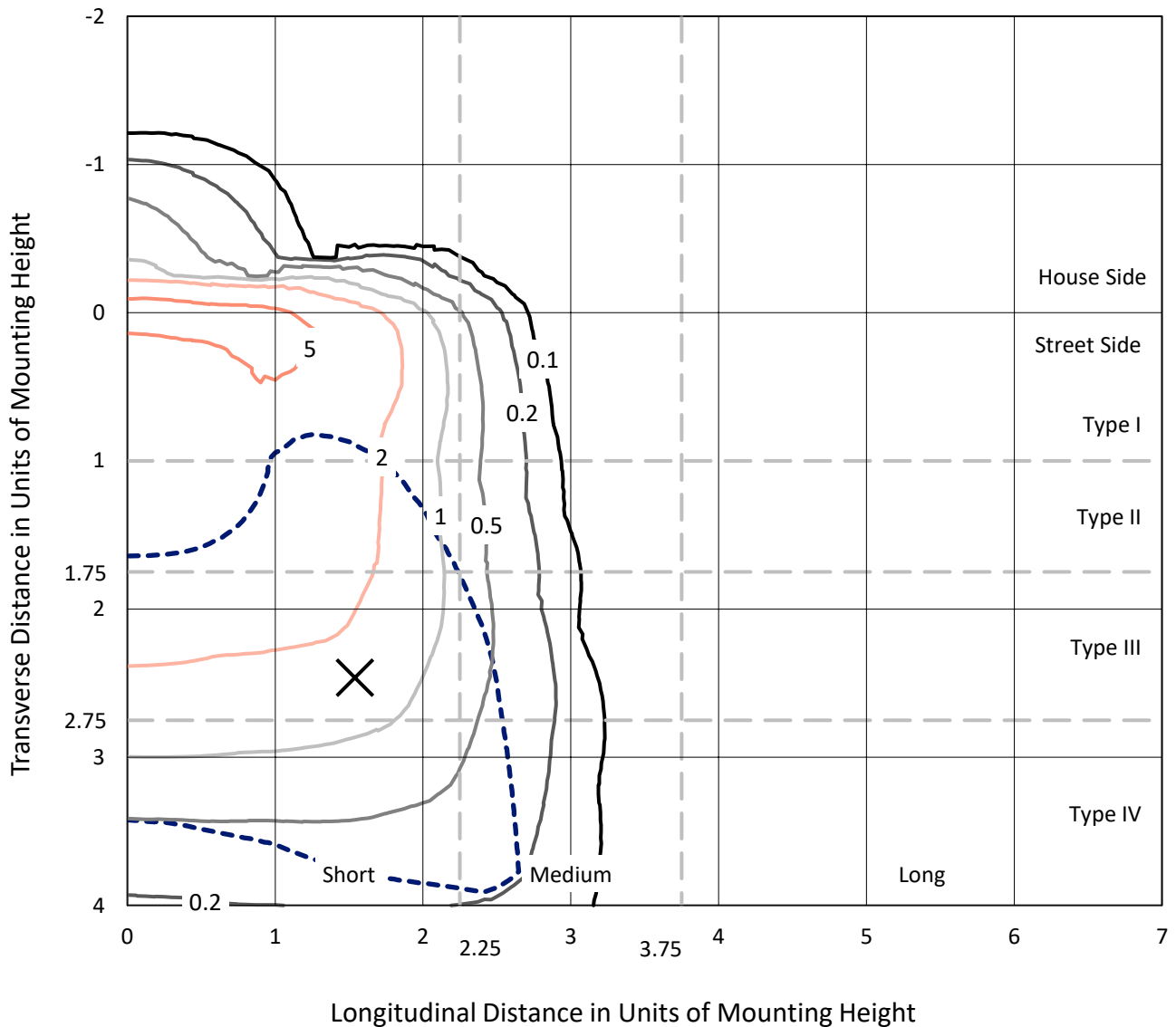
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

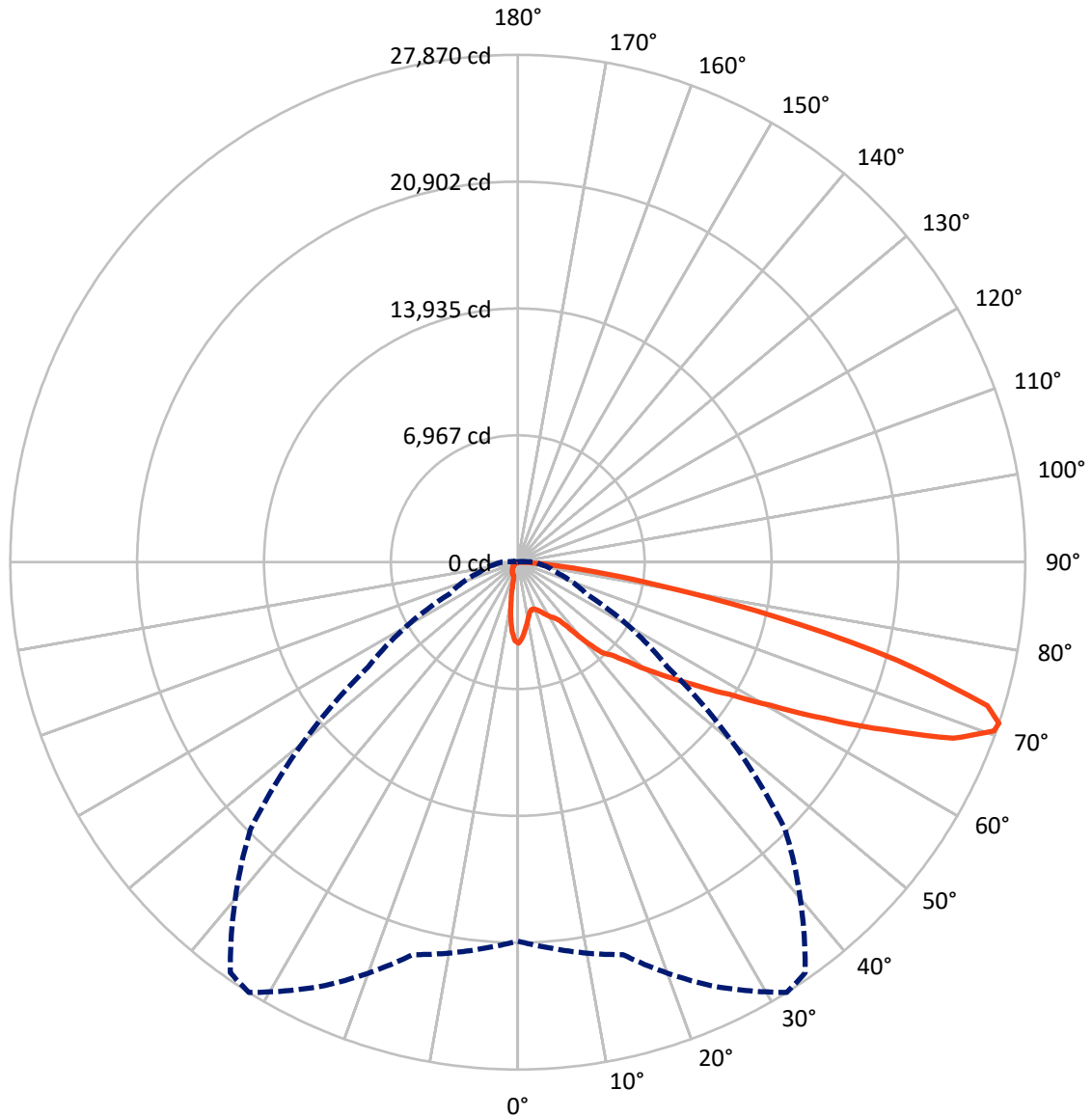
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.7	0.0	2317.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25353.3	0.0	25353.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	27671.0	0.0	27671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.8	1.3
10°-20°	785.3	2.8
20°-30°	1221.7	4.4
30°-40°	2035.3	7.4
40°-50°	3786.1	13.7
50°-60°	6078.7	22.0
60°-70°	8176.1	29.5
70°-80°	4851.0	17.5
80°-90°	375.0	1.4
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°	27671.0	100.0
0°-180°	27671.0	100.0

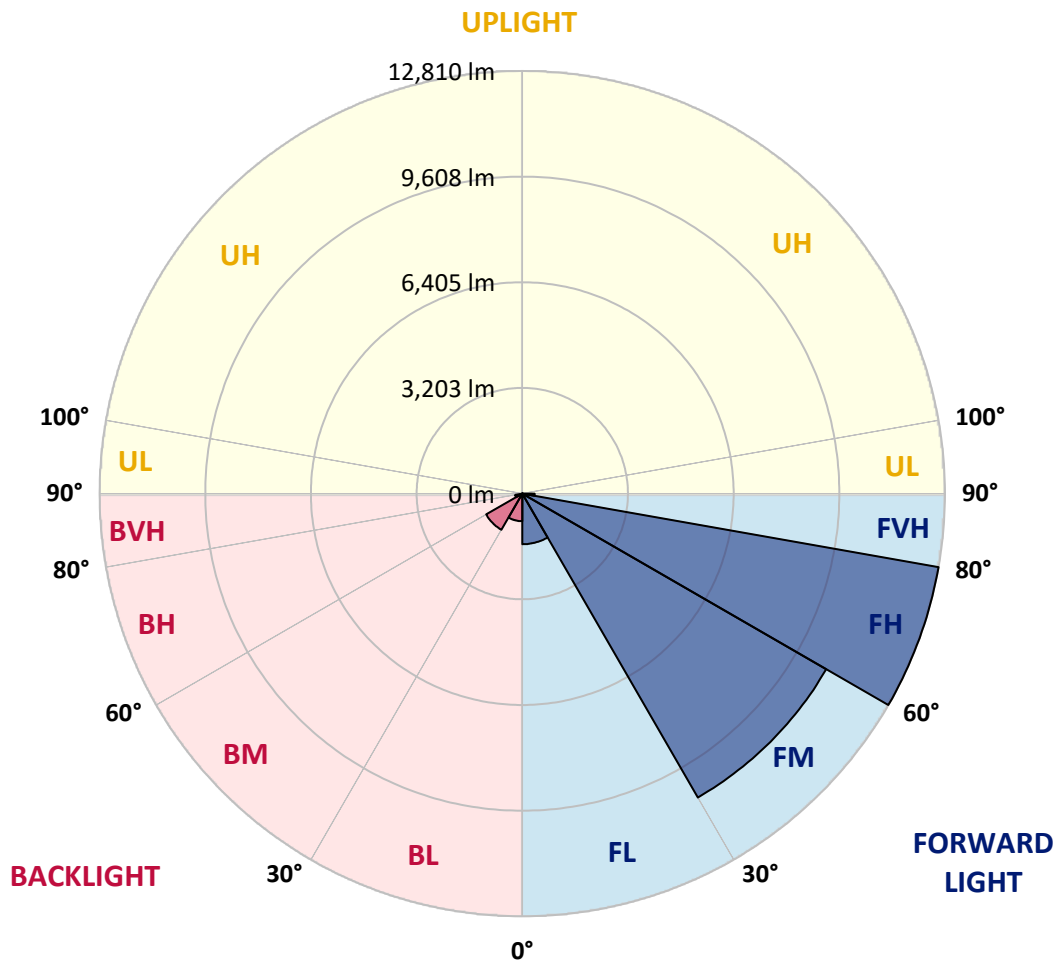


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1533.7	5.5			
FM	(30°-60°)	10635.7	38.4			
FH	(60°-80°)	12810.3	46.3			G5
FVH	(80°-90°)	373.5	1.3			G3/500
BL	(0°-30°)	835.1	3.0	B2/1000		
BM	(30°-60°)	1264.4	4.6	B2/2500		
BH	(60°-80°)	216.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9
2.5°	4127.1	4169.6	4163.2	4178.0	4214.2	4229.0	4269.4	4314.0	4375.6	4418.1	4445.7
5°	3695.9	3727.7	3732.0	3806.3	3842.4	3882.8	4001.8	4131.3	4275.8	4390.5	4466.9
7.5°	3235.0	3252.0	3285.9	3383.6	3475.0	3515.3	3695.9	3921.0	4148.3	4362.8	4500.9
10°	2854.8	2873.9	2935.5	3039.5	3124.5	3177.6	3428.3	3710.8	4029.4	4348.0	4549.8
12.5°	2638.1	2648.7	2672.1	2765.5	2873.9	2931.2	3201.0	3523.8	3933.8	4354.3	4632.6
15°	2623.2	2619.0	2591.4	2629.6	2727.3	2786.8	3050.2	3396.4	3848.8	4375.6	4730.3
17.5°	2701.8	2691.2	2625.4	2625.4	2706.1	2754.9	2986.4	3328.4	3806.3	4424.4	4868.4
20°	2822.9	2805.9	2697.6	2689.1	2767.7	2818.6	3024.7	3332.7	3814.8	4515.8	5053.2
22.5°	2975.8	2956.7	2793.2	2797.4	2882.4	2933.3	3135.1	3409.1	3867.9	4628.4	5250.7
25°	3175.5	3154.2	2961.0	2952.5	3041.7	3086.3	3298.7	3545.1	3942.3	4768.5	5509.8
27.5°	3441.0	3396.4	3164.9	3152.1	3247.7	3305.1	3496.2	3727.7	4074.0	4961.8	5858.2
30°	3659.8	3610.9	3390.0	3356.0	3458.0	3502.6	3700.1	3974.1	4333.1	5299.6	6340.4
32.5°	3946.5	3874.3	3615.2	3526.0	3634.3	3691.6	3995.4	4432.9	4717.6	5656.4	6913.9
35°	4592.2	4547.6	4231.1	3918.9	3912.5	3984.8	4430.8	4896.0	5112.6	6212.9	7695.5
37.5°	5516.2	5484.4	5148.7	4730.3	4609.2	4575.2	4959.7	5405.8	5743.5	6977.6	8604.6
40°	6588.9	6514.5	6206.5	5851.8	5694.6	5594.8	5584.2	6164.1	6567.6	8016.2	9551.9
42.5°	7357.8	7221.8	6848.0	6822.5	6788.5	6684.5	6382.8	7272.8	7631.8	9133.5	10565.1
45°	8164.9	7958.9	7402.4	7306.8	7294.1	7287.7	7589.3	8585.5	8791.5	10344.2	11605.9
47.5°	8791.5	8628.0	8171.3	8128.8	8181.9	8326.4	9184.5	9978.9	9936.4	11423.3	12478.9
50°	9626.3	9503.1	8995.4	9076.2	9350.2	9585.9	10983.6	11497.6	10877.4	12272.9	13114.0
52.5°	10611.9	10384.6	9913.0	10131.8	10552.4	10945.3	12893.1	12827.3	11538.0	12912.2	13587.7
55°	11465.7	11304.3	11142.9	11370.2	11998.9	12489.5	14617.9	13823.5	12018.0	13426.3	13795.8
57.5°	12910.1	12871.9	12706.2	12937.7	13700.3	14210.0	16162.1	14596.6	12326.0	13693.9	13551.6
60°	15046.9	14985.3	14677.3	14972.6	15966.6	16767.4	17585.2	15291.2	12396.1	13589.8	12848.5
62.5°	17617.0	17406.8	17143.4	17578.8	18942.5	19295.1	18925.5	15703.3	12134.8	12761.4	11153.5
65°	20017.2	19800.6	19807.0	20724.6	22209.3	22449.3	20488.8	15641.7	11370.2	10686.2	8226.5
67.5°	21854.6	21818.5	22077.6	23868.2	25809.6	25643.9	21886.4	14719.8	9103.8	6926.6	4371.3
70°	21948.0	22018.1	22761.5	25784.1	27755.2	27491.9	21767.5	11964.9	5675.5	3186.1	1722.6
71°	20818.0	21289.6	22317.6	25724.6	27869.9	27528.0	20764.9	10021.4	4163.2	2221.8	1242.6
72.5°	17740.2	17988.8	20210.5	24210.2	26963.0	26232.3	18222.4	7024.3	2665.7	1359.4	713.7
75°	9770.7	10382.5	13534.6	18993.4	21565.7	20924.2	11875.7	3336.9	1329.7	743.4	295.2
77.5°	4651.7	4532.8	6603.7	11295.8	14622.1	14588.1	5983.5	1482.6	775.3	503.4	148.7
80°	1329.7	1495.3	2527.6	5369.7	8118.2	8207.4	2298.2	715.8	537.4	393.0	76.5
82.5°	401.4	409.9	928.2	2374.7	4037.9	3806.3	862.4	365.3	386.6	312.2	44.6
85°	70.1	87.1	274.0	836.9	1540.0	1168.2	216.7	174.2	254.9	206.0	25.5
87.5°	4.2	6.4	91.3	95.6	135.9	78.6	38.2	25.5	55.2	55.2	14.9
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°	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9	4449.9
2.5°	4464.8	4477.5	4469.0	4449.9	4418.1	4379.8	4328.9	4286.4	4250.3	4231.1	4254.5
5°	4492.4	4509.4	4466.9	4371.3	4226.9	4069.7	3891.3	3753.2	3644.9	3610.9	3598.2
7.5°	4534.9	4545.5	4430.8	4218.4	3912.5	3540.8	3215.8	2941.8	2729.4	2665.7	2572.3
10°	4590.1	4583.7	4367.1	3972.0	3434.6	2876.0	2372.6	1998.8	1716.2	1614.3	1605.8
12.5°	4675.1	4641.1	4286.4	3636.4	2865.4	2134.7	1512.3	1183.1	1004.7	945.2	932.5
15°	4781.3	4700.6	4158.9	3243.5	2194.2	1378.5	932.5	832.6	809.3	805.0	800.8
17.5°	4906.6	4779.2	3991.1	2761.3	1542.1	894.2	779.5	777.4	779.5	775.3	773.2
20°	5076.5	4862.0	3791.5	2189.9	1019.6	754.0	743.4	743.4	745.5	743.4	743.4
22.5°	5257.1	4959.7	3545.1	1671.6	768.9	715.8	713.7	717.9	722.2	720.1	720.1
25°	5480.1	5087.2	3220.1	1144.9	688.2	684.0	686.1	694.6	703.1	705.2	703.1
27.5°	5803.0	5244.3	2871.7	788.0	630.8	635.1	656.3	677.6	690.3	692.4	692.4
30°	6166.2	5418.5	2417.2	639.3	584.1	584.1	609.6	650.0	677.6	681.8	684.0
32.5°	6633.5	5620.3	1913.8	575.6	539.5	535.3	558.6	607.5	658.5	673.3	673.3
35°	7211.2	5858.2	1423.1	535.3	507.7	497.0	509.8	550.1	616.0	658.5	662.7
37.5°	7888.8	6083.3	1040.8	499.2	477.9	463.0	471.5	503.4	556.5	620.2	637.2
40°	8515.4	6283.0	777.4	469.4	448.2	437.6	443.9	458.8	503.4	562.9	573.5
42.5°	9199.4	6438.1	618.1	437.6	418.4	414.2	414.2	420.6	450.3	484.3	486.4
45°	9881.2	6493.3	518.3	399.3	386.6	390.8	388.7	384.5	397.2	393.0	393.0
47.5°	10367.6	6427.4	429.1	363.2	363.2	369.6	359.0	344.1	337.7	312.2	314.4
50°	10701.1	6187.4	352.6	320.7	337.7	346.2	325.0	301.6	278.3	250.6	244.3
52.5°	10839.1	5760.5	288.9	265.5	299.5	310.1	284.6	257.0	220.9	197.5	191.2
55°	10749.9	5233.7	240.0	216.7	252.8	265.5	240.0	208.2	167.8	142.3	138.1
57.5°	10357.0	4605.0	203.9	172.0	201.8	210.3	193.3	159.3	118.9	93.5	93.5
60°	9677.3	3955.0	165.7	135.9	150.8	163.6	146.6	114.7	80.7	57.3	53.1
62.5°	8298.7	3211.6	133.8	106.2	106.2	116.8	102.0	82.8	51.0	29.7	27.6
65°	5992.0	2202.7	106.2	78.6	76.5	76.5	63.7	55.2	29.7	12.7	8.5
67.5°	3256.2	1242.6	85.0	59.5	53.1	51.0	40.4	31.9	12.7	2.1	0.0
70°	1280.8	477.9	65.8	40.4	34.0	31.9	21.2	14.9	8.5	0.0	0.0
71°	868.7	329.2	57.3	34.0	27.6	23.4	17.0	12.7	6.4	0.0	0.0
72.5°	497.0	203.9	44.6	25.5	21.2	17.0	12.7	8.5	6.4	0.0	0.0
75°	216.7	104.1	27.6	19.1	14.9	10.6	8.5	6.4	2.1	0.0	0.0
77.5°	110.5	57.3	19.1	14.9	8.5	6.4	4.2	2.1	0.0	0.0	0.0
80°	61.6	29.7	12.7	8.5	6.4	4.2	2.1	2.1	0.0	0.0	0.0
82.5°	34.0	17.0	6.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	10.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	4.2	0.0	0.0	0.0	0.0	2.1	2.1	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)