

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: P459263

Luminaire Tested: **GALN-SA7B-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459263
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-SA7B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 26586 lumens
Efficiency: N/A
Efficacy: 93.0 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

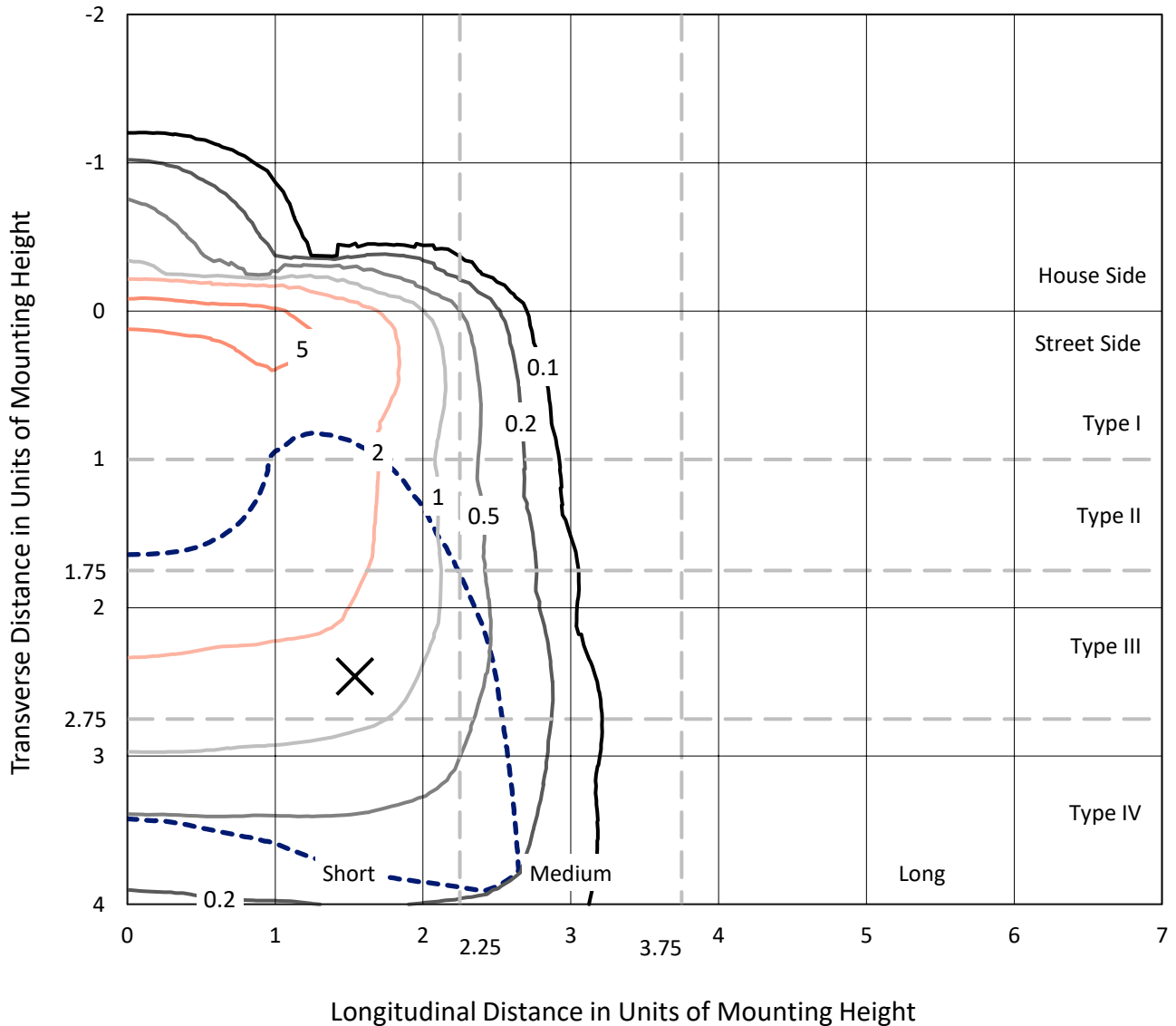
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

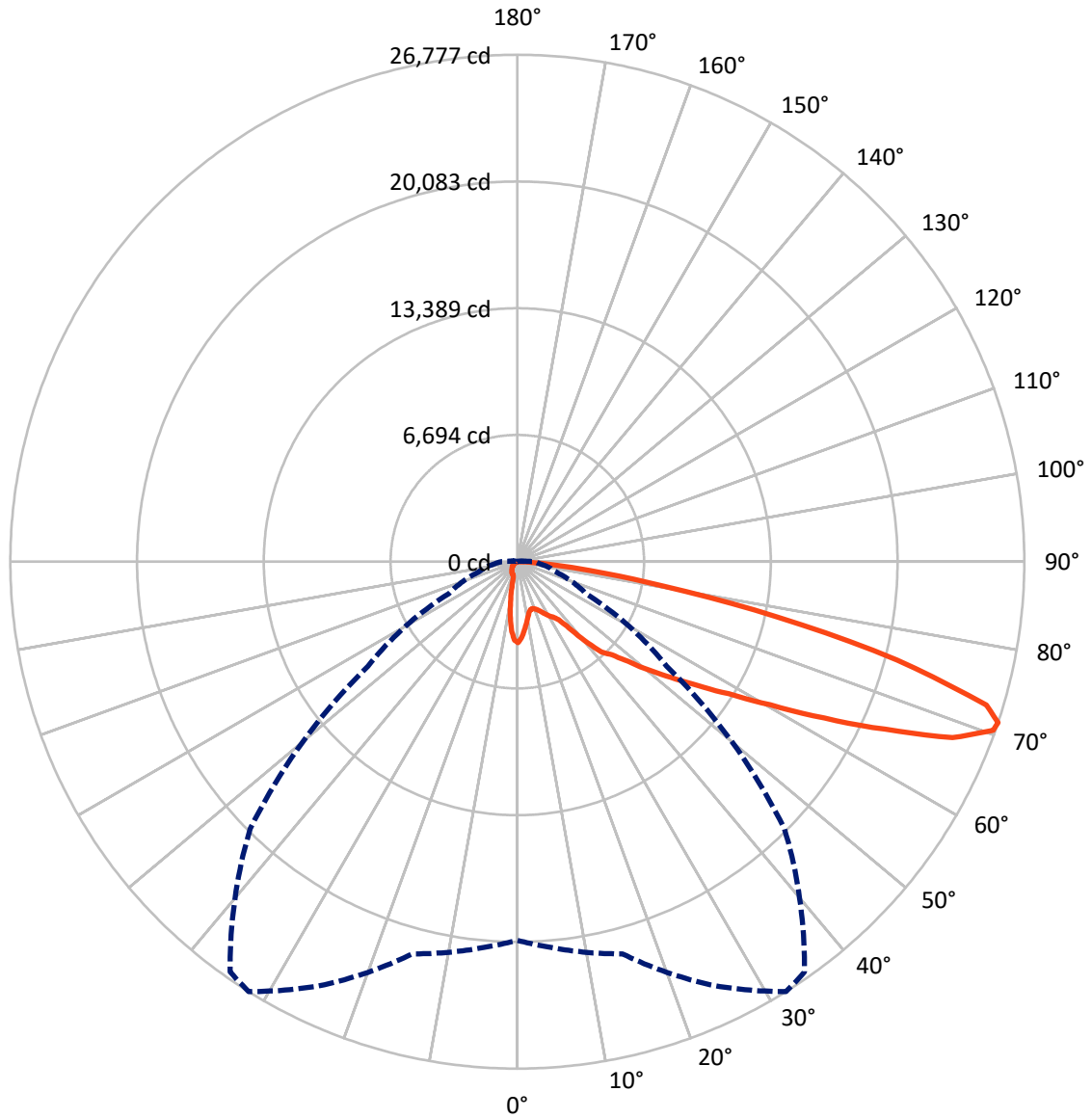
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	2226.9	0.0	2226.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24359.1	0.0	24359.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	26586.0	0.0	26586.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	1.3
10°-20°	754.5	2.8
20°-30°	1173.8	4.4
30°-40°	1955.5	7.4
40°-50°	3637.6	13.7
50°-60°	5840.3	22.0
60°-70°	7855.5	29.5
70°-80°	4660.8	17.5
80°-90°	360.3	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°	26586.0	100.0
0°-180°	26586.0	100.0

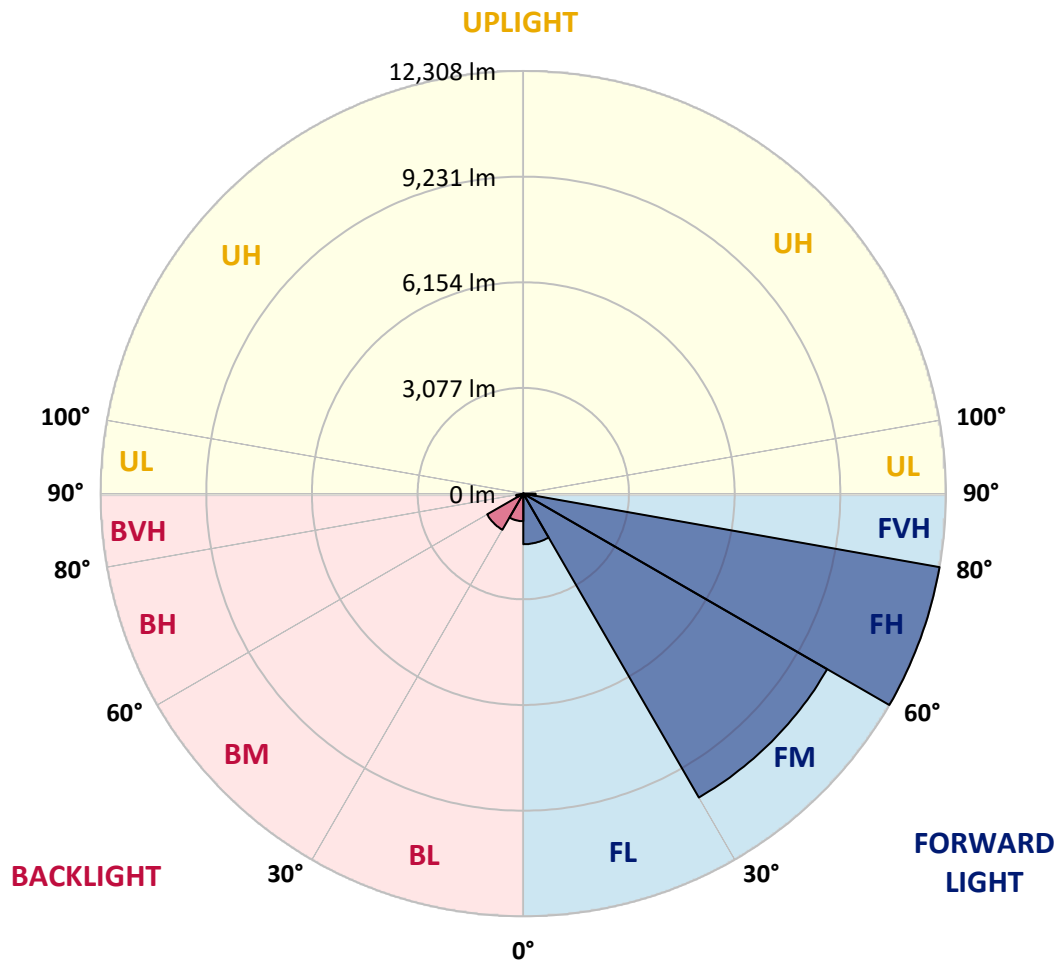


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.6	5.5			
FM (30°-60°)	10218.7	38.4			
FH (60°-80°)	12308.0	46.3			G5
FVH (80°-90°)	358.9	1.3			G3/500
BL (0°-30°)	802.4	3.0	B2/1000		
BM (30°-60°)	1214.8	4.6	B2/2500		
BH (60°-80°)	208.3	0.8	B1/500		G1/500
BVH (80°-90°)	1.4	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°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	3965.2	4006.1	3999.9	4014.2	4048.9	4063.2	4102.0	4144.8	4204.0	4244.8	4271.4
5°	3551.0	3581.6	3585.7	3657.1	3691.8	3730.6	3844.8	3969.3	4108.1	4218.3	4291.8
7.5°	3108.1	3124.4	3157.1	3251.0	3338.7	3377.5	3551.0	3767.3	3985.7	4191.8	4324.4
10°	2742.8	2761.2	2820.4	2920.4	3002.0	3053.0	3293.8	3565.3	3871.4	4177.5	4371.4
12.5°	2534.7	2544.9	2567.3	2657.1	2761.2	2816.3	3075.5	3385.7	3779.5	4183.6	4451.0
15°	2520.4	2516.3	2489.8	2526.5	2620.4	2677.5	2930.6	3263.2	3697.9	4204.0	4544.8
17.5°	2595.9	2585.7	2522.4	2522.4	2600.0	2646.9	2869.3	3197.9	3657.1	4251.0	4677.5
20°	2712.2	2695.9	2591.8	2583.6	2659.1	2708.1	2906.1	3202.0	3665.2	4338.7	4855.0
22.5°	2859.1	2840.8	2683.6	2687.7	2769.3	2818.3	3012.2	3275.5	3716.3	4446.9	5044.8
25°	3051.0	3030.6	2844.9	2836.7	2922.4	2965.3	3169.3	3406.1	3787.7	4581.6	5293.8
27.5°	3306.1	3263.2	3040.8	3028.5	3120.4	3175.5	3359.1	3581.6	3914.2	4767.3	5628.5
30°	3516.3	3469.3	3257.1	3224.4	3322.4	3365.3	3555.0	3818.3	4163.2	5091.8	6091.7
32.5°	3791.8	3722.4	3473.4	3387.7	3491.8	3546.9	3838.7	4259.1	4532.6	5434.6	6642.8
35°	4412.2	4369.3	4065.2	3765.2	3759.1	3828.5	4257.1	4704.0	4912.2	5969.3	7393.8
37.5°	5299.9	5269.3	4946.9	4544.8	4428.5	4395.9	4765.2	5193.8	5518.3	6704.0	8267.2
40°	6330.5	6259.1	5963.2	5622.4	5471.3	5375.4	5365.2	5922.4	6310.1	7701.9	9177.4
42.5°	7069.3	6938.7	6579.5	6555.0	6522.3	6422.3	6132.6	6987.6	7332.5	8775.4	10150.9
45°	7844.8	7646.8	7112.1	7020.3	7008.1	7001.9	7291.7	8248.9	8446.8	9938.6	11150.8
47.5°	8446.8	8289.7	7850.9	7810.1	7861.1	7999.9	8824.4	9587.6	9546.8	10975.3	11989.6
50°	9248.8	9130.5	8642.7	8720.3	8983.5	9210.1	10552.9	11046.8	10450.9	11791.7	12599.8
52.5°	10195.8	9977.4	9524.3	9734.5	10138.6	10516.2	12387.6	12324.3	11085.5	12405.9	13054.9
55°	11016.2	10861.1	10706.0	10924.3	11528.4	11999.8	14044.7	13281.4	11546.8	12899.8	13254.9
57.5°	12403.9	12367.2	12208.0	12430.4	13163.1	13652.9	15528.3	14024.3	11842.7	13156.9	13020.2
60°	14456.9	14397.7	14101.8	14385.5	15340.6	16110.0	16895.7	14691.6	11910.0	13056.9	12344.7
62.5°	16926.3	16724.2	16471.2	16889.5	18199.7	18538.5	18183.4	15087.5	11659.0	12261.0	10716.2
65°	19232.4	19024.2	19030.3	19911.9	21338.4	21569.1	19685.4	15028.3	10924.3	10267.2	7904.0
67.5°	20997.6	20962.9	21211.9	22932.3	24797.6	24638.4	21028.2	14142.6	8746.8	6655.0	4199.9
70°	21087.4	21154.8	21869.0	24773.1	26666.9	26413.9	20914.0	11495.7	5453.0	3061.2	1655.1
71°	20001.7	20454.8	21442.5	24715.9	26777.1	26448.6	19950.7	9628.4	3999.9	2134.7	1193.9
72.5°	17044.6	17283.4	19418.1	23260.9	25905.7	25203.7	17507.9	6748.9	2561.2	1306.1	685.7
75°	9387.6	9975.4	13003.9	18248.7	20720.1	20103.8	11410.0	3206.1	1277.5	714.3	283.7
77.5°	4469.3	4355.0	6344.8	10852.9	14048.8	14016.1	5748.9	1424.5	744.9	483.7	142.9
80°	1277.5	1436.7	2428.5	5159.1	7799.9	7885.6	2208.1	687.7	516.3	377.5	73.5
82.5°	385.7	393.9	891.8	2281.6	3879.5	3657.1	828.6	351.0	371.4	300.0	42.9
85°	67.3	83.7	263.3	804.1	1479.6	1122.4	208.2	167.3	244.9	198.0	24.5
87.5°	4.1	6.1	87.8	91.8	130.6	75.5	36.7	24.5	53.1	53.1	14.3
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°	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4	4275.4
2.5°	4289.7	4302.0	4293.8	4275.4	4244.8	4208.1	4159.1	4118.3	4083.6	4065.2	4087.7
5°	4316.3	4332.6	4291.8	4199.9	4061.2	3910.1	3738.7	3606.1	3502.0	3469.3	3457.1
7.5°	4357.1	4367.3	4257.1	4053.0	3759.1	3402.0	3089.7	2826.5	2622.4	2561.2	2471.4
10°	4410.1	4404.0	4195.9	3816.3	3299.9	2763.2	2279.6	1920.4	1649.0	1551.0	1542.8
12.5°	4491.8	4459.1	4118.3	3493.8	2753.0	2051.0	1453.0	1136.7	965.3	908.1	895.9
15°	4593.8	4516.3	3995.9	3116.3	2108.1	1324.5	895.9	800.0	777.5	773.5	769.4
17.5°	4714.2	4591.8	3834.6	2653.0	1481.6	859.2	749.0	746.9	749.0	744.9	742.8
20°	4877.5	4671.4	3642.8	2104.0	979.6	724.5	714.3	714.3	716.3	714.3	714.3
22.5°	5050.9	4765.2	3406.1	1606.1	738.8	687.7	685.7	689.8	693.9	691.8	691.8
25°	5265.2	4887.7	3093.8	1100.0	661.2	657.1	659.2	667.3	675.5	677.5	675.5
27.5°	5575.4	5038.7	2759.1	757.1	606.1	610.2	630.6	651.0	663.3	665.3	665.3
30°	5924.4	5206.0	2322.4	614.3	561.2	561.2	585.7	624.5	651.0	655.1	657.1
32.5°	6373.4	5399.9	1838.7	553.1	518.4	514.3	536.7	583.7	632.6	646.9	646.9
35°	6928.5	5628.5	1367.3	514.3	487.7	477.5	489.8	528.6	591.8	632.6	636.7
37.5°	7579.5	5844.8	1000.0	479.6	459.2	444.9	453.1	483.7	534.7	595.9	612.2
40°	8181.5	6036.6	746.9	451.0	430.6	420.4	426.5	440.8	483.7	540.8	551.0
42.5°	8838.6	6185.6	593.9	420.4	402.0	398.0	398.0	404.1	432.6	465.3	467.3
45°	9493.7	6238.7	498.0	383.7	371.4	375.5	373.5	369.4	381.6	377.5	377.5
47.5°	9961.1	6175.4	412.2	349.0	349.0	355.1	344.9	330.6	324.5	300.0	302.0
50°	10281.5	5944.8	338.8	308.2	324.5	332.6	312.2	289.8	267.3	240.8	234.7
52.5°	10414.1	5534.6	277.5	255.1	287.8	298.0	273.5	246.9	212.2	189.8	183.7
55°	10328.4	5028.5	230.6	208.2	242.9	255.1	230.6	200.0	161.2	136.7	132.7
57.5°	9950.9	4424.4	195.9	165.3	193.9	202.0	185.7	153.1	114.3	89.8	89.8
60°	9297.8	3799.9	159.2	130.6	144.9	157.1	140.8	110.2	77.5	55.1	51.0
62.5°	7973.3	3085.7	128.6	102.0	102.0	112.2	98.0	79.6	49.0	28.6	26.5
65°	5757.1	2116.3	102.0	75.5	73.5	73.5	61.2	53.1	28.6	12.2	8.2
67.5°	3128.5	1193.9	81.6	57.1	51.0	49.0	38.8	30.6	12.2	2.0	0.0
70°	1230.6	459.2	63.3	38.8	32.7	30.6	20.4	14.3	8.2	0.0	0.0
71°	834.7	316.3	55.1	32.7	26.5	22.4	16.3	12.2	6.1	0.0	0.0
72.5°	477.5	195.9	42.9	24.5	20.4	16.3	12.2	8.2	6.1	0.0	0.0
75°	208.2	100.0	26.5	18.4	14.3	10.2	8.2	6.1	2.0	0.0	0.0
77.5°	106.1	55.1	18.4	14.3	8.2	6.1	4.1	2.0	0.0	0.0	0.0
80°	59.2	28.6	12.2	8.2	6.1	4.1	2.0	2.0	0.0	0.0	0.0
82.5°	32.7	16.3	6.1	4.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	10.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	4.1	0.0	0.0	0.0	0.0	2.0	2.0	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)