

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: P455118

Luminaire Tested: **GALN-SA6B-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455118
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-SA6B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA 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: 22230 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

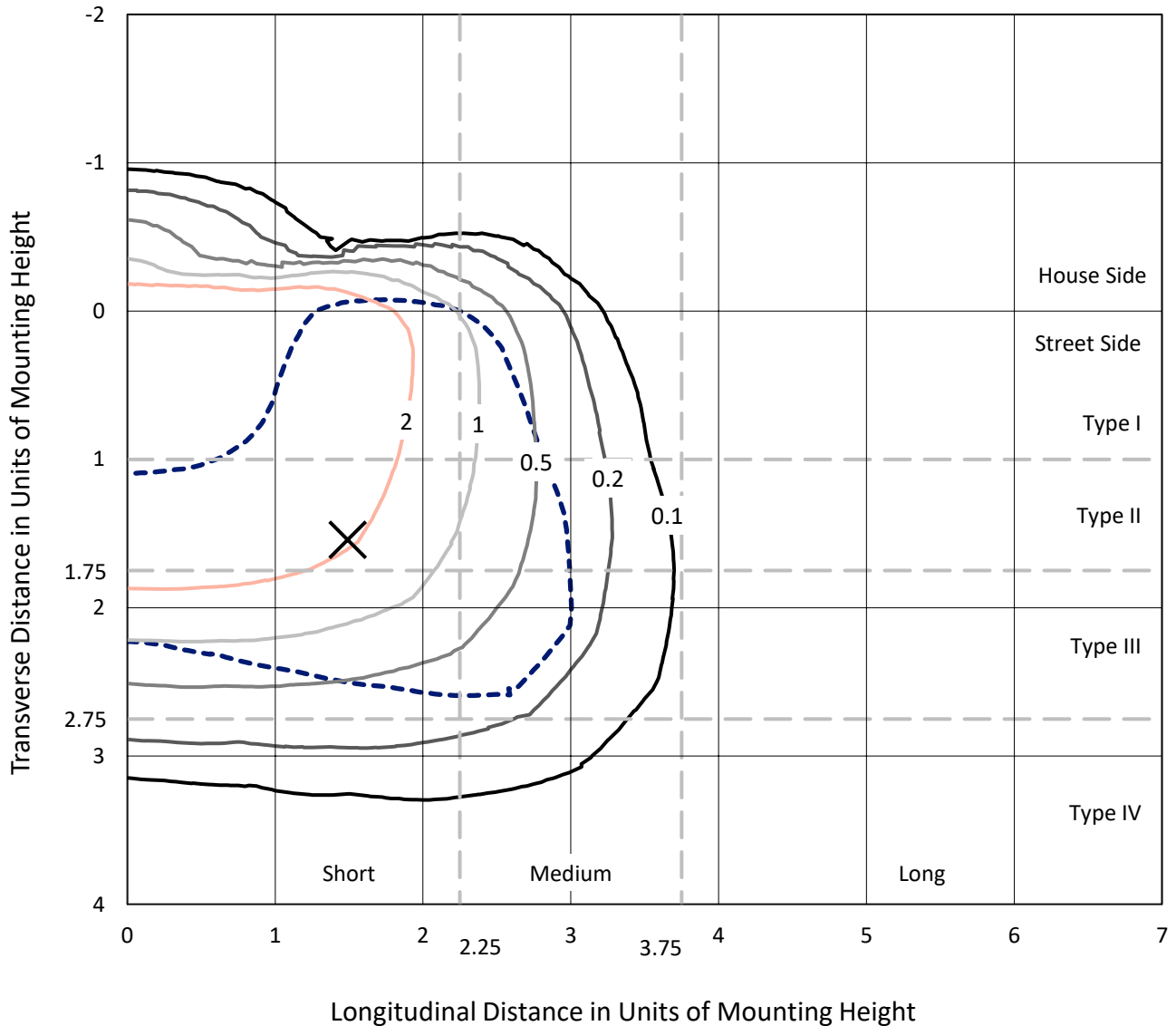
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

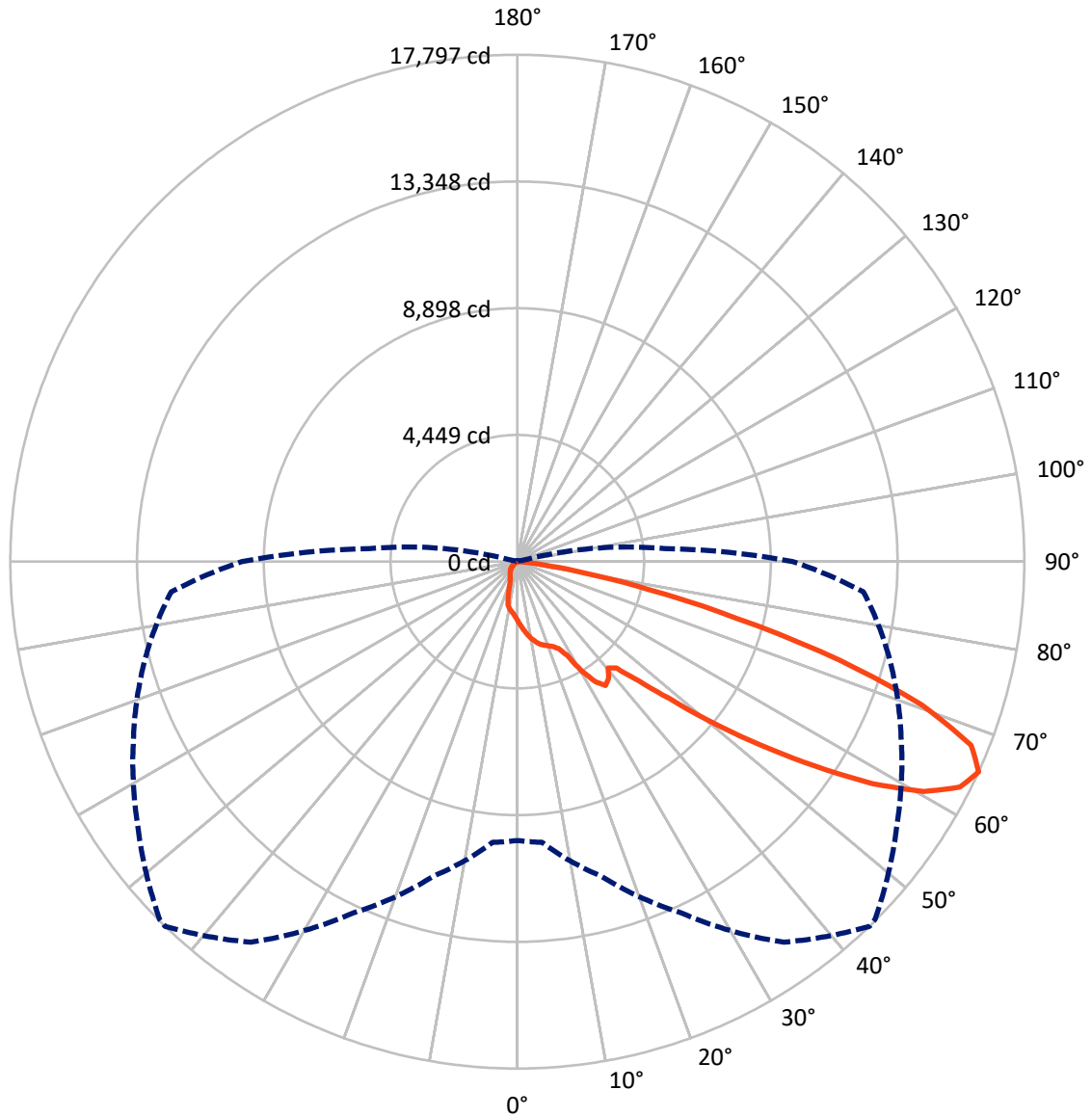
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2048.2	0.0	2048.2
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	20181.9	0.0	20181.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	22230.0	0.0	22230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	0.9
10°-20°	619.3	2.8
20°-30°	1050.2	4.7
30°-40°	1746.1	7.9
40°-50°	3048.7	13.7
50°-60°	5956.0	26.8
60°-70°	6910.3	31.1
70°-80°	2516.4	11.3
80°-90°	177.3	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°	22230.0	100.0
0°-180°	22230.0	100.0

Coefficient of Utilization



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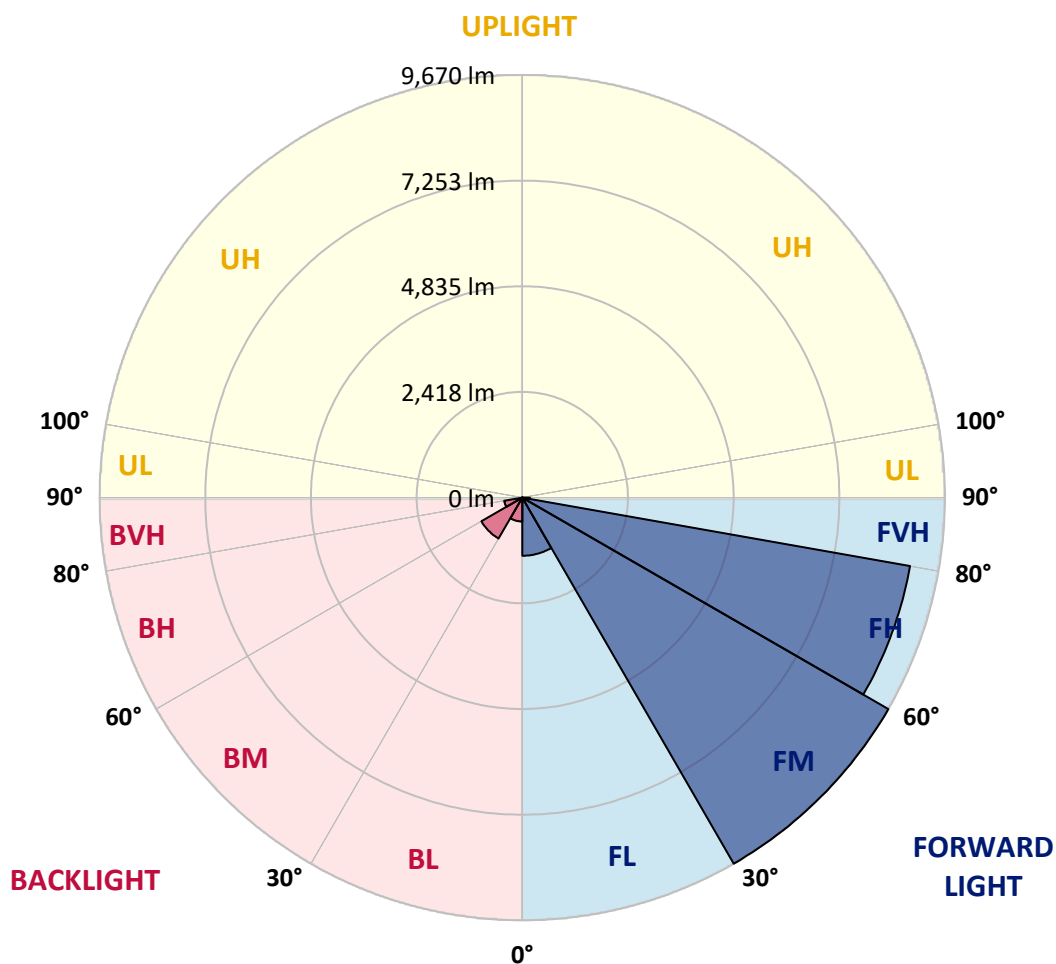
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.6	6.0			
FM (30°-60°)	9670.1	43.5			
FH (60°-80°)	9007.3	40.5			G4/12000
FVH (80°-90°)	174.9	0.8			G2/225
BL (0°-30°)	545.7	2.5	B2/1000		
BM (30°-60°)	1080.6	4.9	B2/2500		
BH (60°-80°)	419.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0
2.5°	2328.8	2318.7	2313.6	2286.4	2266.0	2240.5	2240.5	2208.2	2170.9	2130.1	2092.7
5°	2588.7	2571.7	2549.7	2525.9	2478.3	2410.4	2410.4	2342.4	2264.3	2194.6	2118.2
7.5°	2838.4	2823.1	2785.8	2739.9	2661.8	2590.4	2585.3	2486.8	2393.4	2288.1	2179.4
10°	3057.6	3045.7	3013.4	2925.1	2843.5	2750.1	2748.4	2638.0	2529.3	2400.2	2266.0
12.5°	3210.4	3212.1	3169.7	3084.7	2979.4	2891.1	2884.3	2775.6	2661.8	2522.5	2357.7
15°	3319.2	3319.2	3275.0	3179.9	3084.7	3006.6	2999.8	2904.7	2787.5	2636.3	2457.9
17.5°	3349.7	3359.9	3312.4	3227.4	3151.0	3083.0	3081.3	3001.5	2908.1	2762.0	2559.9
20°	3337.8	3348.0	3310.7	3244.4	3191.8	3152.7	3147.6	3115.3	3028.7	2891.1	2668.6
22.5°	3312.4	3322.6	3295.4	3256.3	3230.8	3242.7	3234.2	3261.4	3215.5	3049.1	2797.7
25°	3317.5	3327.6	3307.3	3285.2	3307.3	3380.3	3402.4	3519.6	3478.8	3249.5	2937.0
27.5°	3477.1	3497.5	3468.6	3478.8	3557.0	3726.8	3769.3	3971.4	3791.4	3504.3	3154.4
30°	3832.1	3818.6	3764.2	3813.5	4085.2	4445.4	4433.5	4401.2	4119.2	3798.2	3412.6
32.5°	4154.9	4143.0	4139.6	4351.9	4844.5	5019.5	5011.0	4698.5	4413.1	4134.5	3667.4
35°	4285.7	4239.8	4229.6	4744.3	5568.2	5337.1	5284.5	4820.8	4769.8	4501.4	3927.3
37.5°	4679.8	4647.5	4489.5	4808.9	5279.4	5203.0	5162.2	5031.4	5150.3	4825.9	4221.1
40°	5491.7	5401.7	5259.0	4946.5	4870.0	4902.3	4943.1	5301.5	5600.4	5269.2	4613.5
42.5°	6500.7	6480.3	6215.3	5632.7	5060.3	5104.4	5157.1	5865.4	6247.6	5936.8	5253.9
45°	7711.8	7740.7	7358.5	6670.6	5919.8	5957.1	6033.6	6697.8	7124.1	6974.6	6261.2
47.5°	8812.6	8790.5	8661.4	7946.3	7253.2	7170.0	7294.0	7766.2	8337.0	8360.7	7511.4
50°	9920.1	10037.3	9845.3	9565.1	9050.4	8875.4	8829.6	9060.6	9930.3	9816.5	9013.0
52.5°	11511.7	11572.9	11212.8	11141.4	11258.6	10691.3	10645.4	10701.5	11479.4	11088.8	10137.5
55°	12512.2	12476.6	12342.4	12899.5	13363.2	12654.9	12597.2	12371.2	12765.3	11987.3	11219.6
57.5°	12828.2	12879.1	13191.7	14199.0	15296.3	14695.0	14589.7	13947.6	13692.8	12824.8	12215.0
60°	12687.2	12780.6	13455.0	14953.2	16475.2	16385.1	16295.1	15216.5	14358.6	13524.6	12913.1
62.5°	11683.3	11814.1	12892.7	14819.0	16874.3	17436.6	17324.5	16008.0	14802.0	13864.3	13035.4
65°	9791.0	9887.8	11437.0	13601.1	16307.0	17796.7	17755.9	16256.0	14871.6	13553.5	12198.0
67.5°	6979.7	7309.3	8744.6	11462.5	14628.7	17181.8	17251.4	15958.8	14217.7	12209.9	10101.8
70°	4387.6	4611.8	5641.2	8206.2	11727.4	15073.8	15303.1	14598.2	12339.0	9517.5	6762.3
72.5°	2092.7	2259.2	2993.0	5194.5	8277.5	11859.9	12041.7	11983.9	9541.3	5996.2	3489.0
75°	932.6	995.4	1428.6	2651.6	5343.9	7971.7	8442.3	8520.4	5962.2	2933.6	1357.2
77.5°	475.6	477.3	669.3	1284.2	2668.6	4756.2	4849.6	5123.1	3232.5	1292.7	472.2
80°	253.1	270.1	355.0	606.4	1384.4	2342.4	2330.5	2561.6	1433.7	633.6	158.0
82.5°	113.8	125.7	200.4	317.6	676.1	888.4	958.0	1048.1	614.9	404.3	69.6
85°	34.0	40.8	98.5	159.7	244.6	256.5	287.1	370.3	348.2	287.1	35.7
87.5°	5.1	5.1	40.8	44.2	35.7	45.9	47.6	52.7	112.1	105.3	18.7
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°	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0	2069.0
2.5°	2072.3	2060.5	2018.0	1982.3	1951.7	1933.1	1911.0	1897.4	1890.6	1885.5	1887.2
5°	2080.8	2052.0	1978.9	1921.2	1877.0	1829.4	1797.2	1778.5	1770.0	1756.4	1756.4
7.5°	2128.4	2082.5	1980.6	1892.3	1815.9	1751.3	1690.2	1668.1	1652.8	1649.4	1646.0
10°	2196.3	2138.6	1999.3	1877.0	1768.3	1680.0	1593.3	1516.9	1457.4	1421.8	1416.7
12.5°	2281.3	2198.0	2028.2	1866.8	1727.5	1571.2	1341.9	1187.4	1083.7	1051.5	1056.6
15°	2359.4	2269.4	2057.1	1858.3	1652.8	1302.9	1043.0	866.3	813.7	808.6	810.3
17.5°	2452.8	2345.8	2091.0	1846.4	1447.2	995.4	774.6	727.0	737.2	754.2	752.5
20°	2549.7	2427.4	2131.8	1775.1	1155.1	749.1	684.6	689.7	704.9	720.2	723.6
22.5°	2653.3	2520.8	2179.4	1603.5	881.6	652.3	648.9	655.7	671.0	688.0	691.3
25°	2796.0	2638.0	2215.0	1379.3	667.6	603.0	609.8	621.7	635.3	654.0	657.4
27.5°	2979.4	2796.0	2233.7	1087.1	577.5	558.9	560.6	577.5	594.5	611.5	611.5
30°	3217.2	2984.5	2196.3	822.1	533.4	516.4	509.6	519.8	541.9	558.9	560.6
32.5°	3429.6	3162.9	2097.8	628.5	501.1	477.3	460.3	462.0	470.5	480.7	482.4
35°	3641.9	3336.1	1929.7	528.3	467.1	439.9	414.5	400.9	394.1	389.0	394.1
37.5°	3913.7	3551.9	1705.4	480.7	438.3	404.3	368.6	339.7	315.9	300.7	304.1
40°	4263.6	3850.8	1440.5	450.1	411.1	370.3	322.7	285.4	244.6	231.0	224.2
42.5°	4841.1	4304.4	1161.9	424.7	383.9	334.6	275.2	224.2	186.9	173.3	176.7
45°	5753.3	4876.8	895.2	397.5	356.7	295.6	231.0	176.7	146.1	139.3	142.7
47.5°	6962.7	5617.4	689.7	366.9	322.7	253.1	181.8	139.3	120.6	118.9	117.2
50°	8100.8	6307.1	575.8	332.9	282.0	210.6	149.5	117.2	105.3	103.6	103.6
52.5°	9130.2	6801.4	468.8	293.9	237.8	173.3	125.7	103.6	93.4	88.3	88.3
55°	10045.8	7124.1	380.5	246.3	186.9	137.6	108.7	93.4	81.5	74.7	73.0
57.5°	10737.1	7163.2	285.4	197.0	139.3	107.0	93.4	81.5	67.9	59.5	56.1
60°	11032.7	6825.2	210.6	149.5	103.6	84.9	74.7	66.2	51.0	42.5	40.8
62.5°	10735.4	6167.8	156.3	113.8	79.8	62.8	52.7	49.3	35.7	25.5	23.8
65°	9670.4	5218.2	124.0	86.6	59.5	45.9	34.0	32.3	22.1	11.9	10.2
67.5°	7747.5	4086.9	98.5	64.5	42.5	30.6	22.1	20.4	11.9	3.4	3.4
70°	5038.2	2612.5	79.8	47.6	27.2	20.4	13.6	10.2	6.8	1.7	0.0
72.5°	2491.9	1221.3	64.5	37.4	18.7	10.2	5.1	3.4	5.1	0.0	0.0
75°	966.5	434.9	47.6	25.5	10.2	5.1	3.4	0.0	1.7	0.0	0.0
77.5°	321.0	144.4	28.9	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	118.9	56.1	15.3	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	47.6	22.1	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	13.6	6.8	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	10.2	6.8	5.1	3.4	1.7	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)