

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: P453283

Luminaire Tested: **GALN-SA4B-740-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18022 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

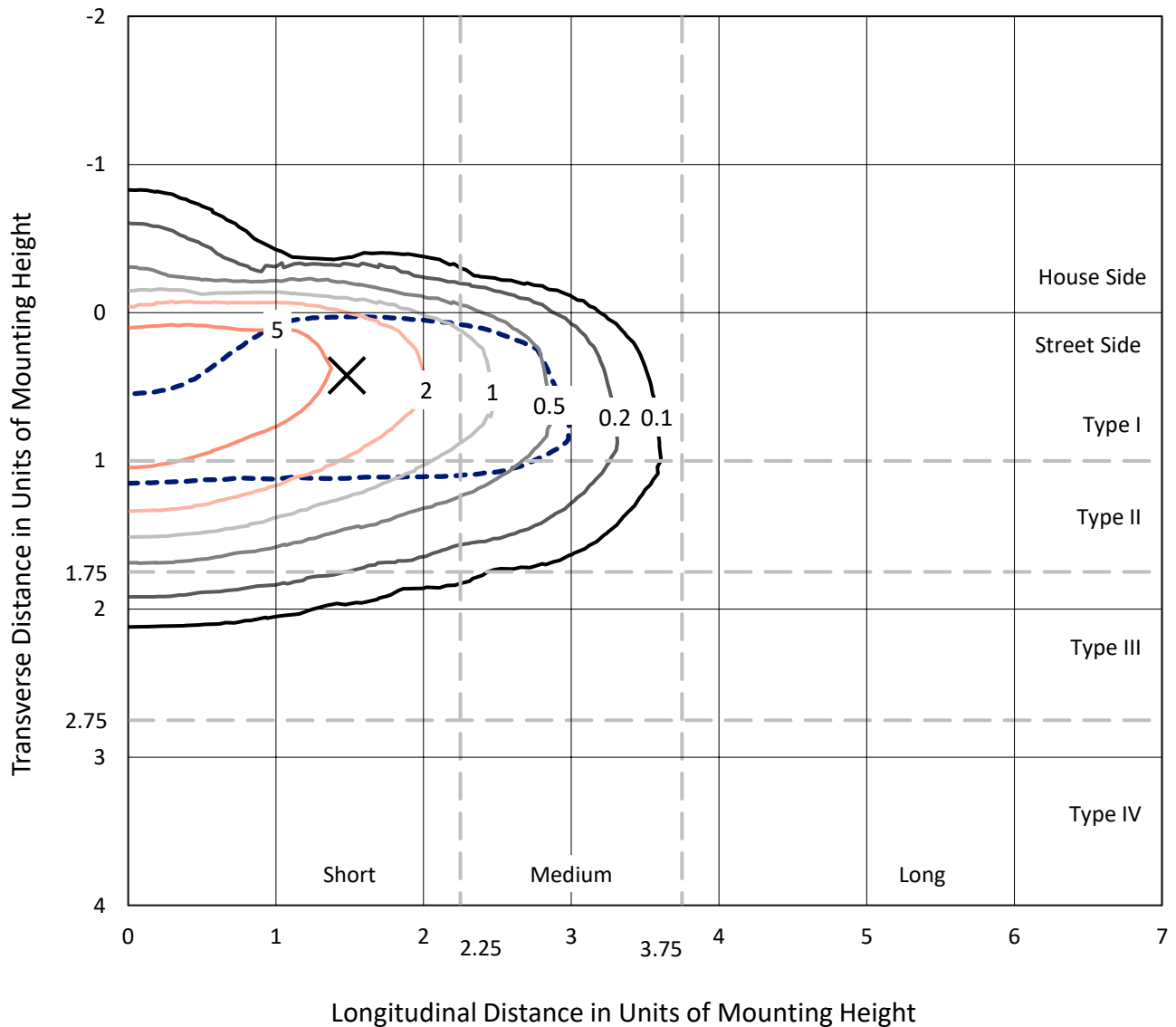
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

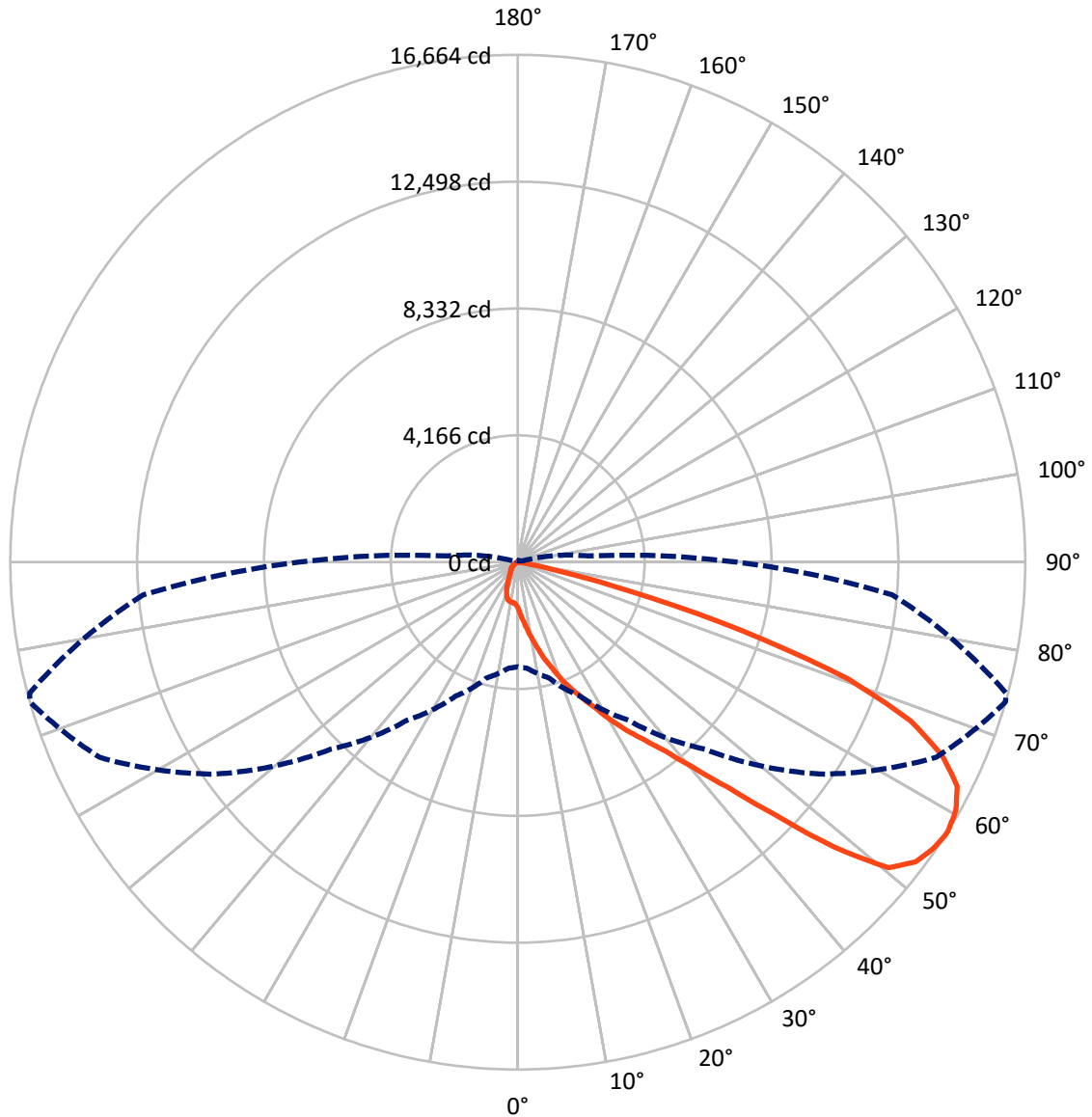
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.4	0.0	1039.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16982.5	0.0	16982.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	18022.0	0.0	18022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	1.0
10°-20°	718.1	4.0
20°-30°	1536.5	8.5
30°-40°	2824.1	15.7
40°-50°	4329.4	24.0
50°-60°	4579.9	25.4
60°-70°	2990.8	16.6
70°-80°	817.2	4.5
80°-90°	44.0	0.2
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°	18022.0	100.0
0°-180°	18022.0	100.0

Coefficient of Utilization

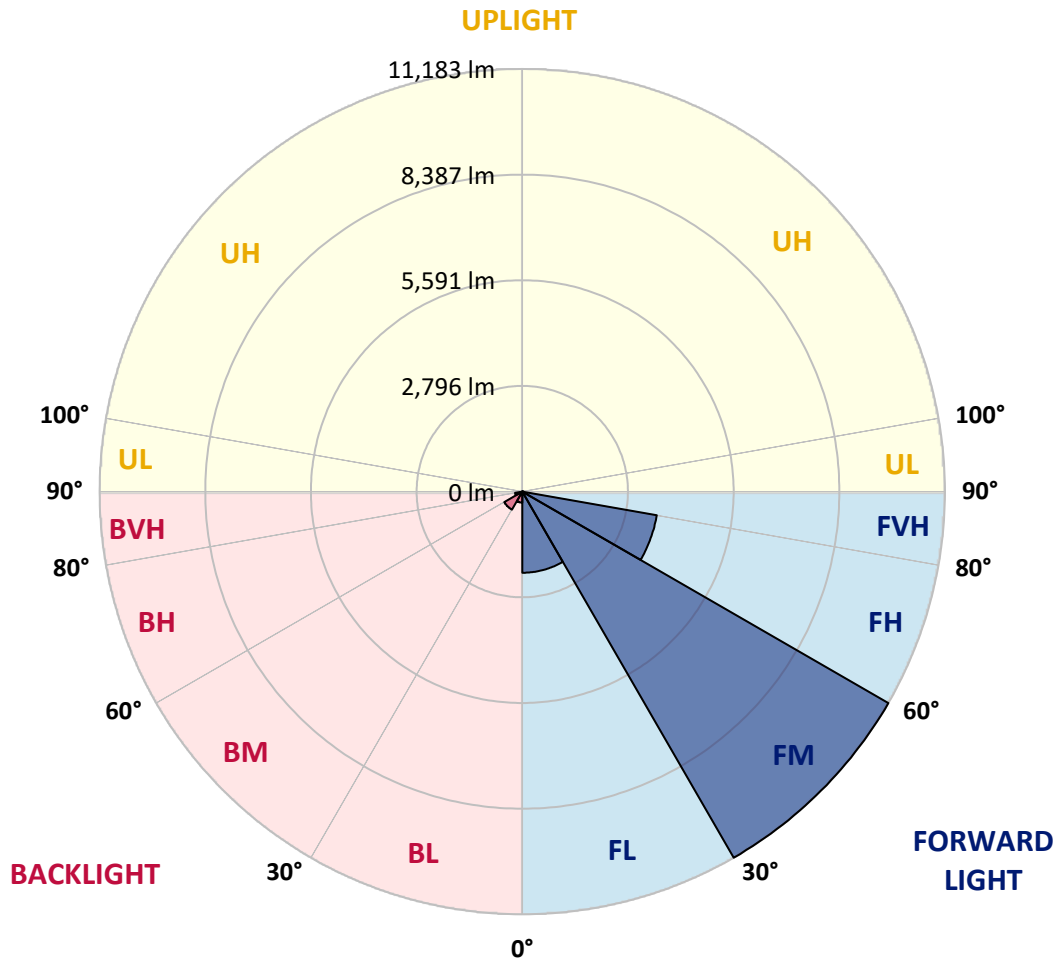


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2146.4	11.9			
FM (30°-60°)	11183.0	62.1			
FH (60°-80°)	3612.8	20.0			G2/5000
FVH (80°-90°)	40.4	0.2			G1/100
BL (0°-30°)	290.4	1.6	B1/500		
BM (30°-60°)	550.3	3.1	B1/1000		
BH (60°-80°)	195.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3
2.5°	2208.6	2188.7	2148.9	2135.2	2076.7	1985.9	1906.2	1799.2	1714.6	1705.9	1603.9
5°	2957.7	2912.9	2894.2	2804.6	2664.0	2532.1	2305.7	2134.0	1936.1	1921.2	1715.9
7.5°	3679.4	3617.1	3598.5	3513.9	3349.6	3141.8	2848.2	2535.9	2222.3	2193.7	1866.4
10°	4202.0	4210.7	4177.1	4121.1	3987.9	3776.4	3414.3	2987.5	2540.8	2504.7	2035.7
12.5°	4576.5	4575.2	4581.5	4580.2	4509.3	4348.8	3968.0	3476.5	2891.7	2820.8	2229.8
15°	4820.4	4824.1	4842.8	4907.5	4914.9	4815.4	4498.1	3944.4	3298.6	3210.3	2440.0
17.5°	5066.7	5092.9	5122.7	5183.7	5238.4	5198.6	4974.7	4432.1	3666.9	3601.0	2665.3
20°	5473.6	5509.7	5492.3	5529.6	5558.2	5562.0	5389.0	4882.6	4113.6	4002.9	2922.8
22.5°	6124.4	6123.1	6078.3	6011.1	5955.2	5952.7	5795.9	5345.5	4519.2	4412.2	3181.6
25°	6946.8	6950.6	6863.5	6671.9	6532.5	6362.0	6181.6	5751.1	4953.5	4821.6	3454.1
27.5°	7890.0	7866.4	7734.5	7470.7	7194.5	6903.3	6643.2	6222.7	5413.9	5304.4	3766.5
30°	8737.4	8728.7	8574.4	8252.1	7888.8	7596.4	7219.3	6813.7	6009.9	5875.5	4116.1
32.5°	9526.3	9538.7	9324.7	8991.2	8640.3	8303.1	7904.9	7378.6	6594.7	6404.3	4496.8
35°	10142.2	10154.6	9933.1	9655.7	9294.8	9014.9	8635.3	7980.9	7172.1	7011.6	4934.8
37.5°	10470.7	10486.8	10358.7	10149.6	9924.4	9783.8	9430.4	8756.0	7873.8	7776.8	5452.5
40°	10532.9	10551.5	10495.6	10439.6	10427.1	10527.9	10424.6	9669.3	8846.9	8695.1	6223.9
42.5°	10346.2	10371.1	10396.0	10520.4	10774.3	11143.8	11503.4	10908.7	10099.9	9895.8	7167.1
45°	9856.0	9853.5	9951.8	10274.1	10842.7	11631.6	12630.7	12460.3	11807.0	11564.4	8499.7
47.5°	9017.3	9004.9	9217.7	9676.8	10562.7	11721.2	13550.3	14344.1	13985.8	13761.8	9931.9
50°	7739.5	7800.4	8135.1	8775.9	9867.2	11449.9	13834.0	15579.7	15773.8	15536.2	11089.1
52.5°	6242.6	6240.1	6765.2	7634.9	8836.9	10852.7	13636.1	15803.7	16354.9	16173.2	11659.0
55°	4620.0	4652.4	5198.6	6075.8	7499.3	9762.7	12990.3	15573.5	16576.4	16448.2	12034.7
57°	3436.7	3494.0	3931.9	4860.2	6334.7	8683.9	12130.5	15161.6	16663.5	16593.8	12347.1
57.5°	3207.8	3210.3	3637.0	4480.7	5993.7	8269.5	11884.2	14989.9	16661.0	16622.4	12398.1
60°	1974.7	2036.9	2331.8	3028.6	4387.4	6454.1	10233.0	14003.2	16531.6	16587.6	12615.8
62.5°	1182.1	1208.2	1399.8	1825.4	2828.3	4710.9	8374.0	12740.2	16194.4	16364.9	12600.9
65°	760.3	766.5	853.6	1104.9	1768.1	3184.1	6452.9	11071.7	15322.1	15635.7	12108.1
67.5°	587.3	597.3	632.1	725.4	1025.3	1983.4	4564.0	9291.1	13911.1	14315.5	10913.6
70°	521.4	526.3	538.8	568.6	678.1	1119.9	2839.5	7257.9	11535.8	11650.3	8540.8
72.5°	425.5	439.2	477.8	487.8	537.5	699.3	1580.2	4871.4	7750.7	7779.3	4778.1
75°	329.7	332.2	389.5	418.1	452.9	481.5	705.5	2456.2	3722.9	3523.8	1841.5
77.5°	246.4	257.6	283.7	319.8	369.6	344.7	316.0	925.7	1155.9	1134.8	535.0
80°	158.0	164.2	197.8	240.1	287.4	225.2	177.9	271.3	253.8	261.3	128.2
82.5°	79.6	80.9	126.9	195.4	182.9	113.2	112.0	110.7	94.6	93.3	59.7
85°	8.7	18.7	82.1	112.0	82.1	37.3	52.3	51.0	49.8	51.0	34.8
87.5°	1.2	1.2	13.7	16.2	11.2	12.4	14.9	16.2	19.9	18.7	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°	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3	1509.3
2.5°	1554.1	1504.3	1412.3	1323.9	1258.0	1215.7	1160.9	1141.0	1112.4	1108.7	1095.0
5°	1621.3	1526.7	1366.2	1239.3	1137.3	1060.1	992.9	936.9	892.2	882.2	887.2
7.5°	1717.1	1576.5	1352.5	1179.6	1037.7	905.8	798.8	732.9	685.6	668.2	670.7
10°	1825.4	1642.5	1350.1	1116.1	899.6	737.9	620.9	562.4	535.0	525.1	513.9
12.5°	1953.5	1718.4	1343.8	1017.8	747.8	588.5	505.2	470.3	444.2	436.7	436.7
15°	2097.9	1799.2	1314.0	895.9	607.2	486.5	430.5	403.1	394.4	387.0	387.0
17.5°	2248.4	1878.9	1251.8	745.3	503.9	416.8	382.0	365.8	353.4	344.7	344.7
20°	2420.1	1957.3	1152.2	612.2	425.5	372.0	344.7	326.0	316.0	308.6	306.1
22.5°	2583.1	2020.7	1025.3	502.7	370.8	334.7	309.8	289.9	280.0	276.2	276.2
25°	2752.4	2059.3	872.2	415.6	338.4	303.6	276.2	260.1	251.3	248.9	247.6
27.5°	2916.6	2081.7	737.9	363.3	308.6	275.0	248.9	236.4	227.7	225.2	226.5
30°	3115.7	2085.4	607.2	326.0	282.5	247.6	224.0	212.8	207.8	205.3	204.1
32.5°	3317.3	2080.4	510.2	303.6	257.6	224.0	204.1	195.4	191.6	187.9	187.9
35°	3543.7	2054.3	434.3	281.2	233.9	204.1	186.6	179.2	174.2	170.5	169.2
37.5°	3824.9	2040.6	390.7	256.3	212.8	185.4	169.2	161.8	158.0	153.0	151.8
40°	4267.9	2101.6	377.0	233.9	191.6	168.0	153.0	144.3	139.4	134.4	133.1
42.5°	4820.4	2208.6	354.6	211.5	173.0	151.8	136.9	126.9	118.2	112.0	109.5
45°	5535.8	2349.2	319.8	187.9	156.8	134.4	120.7	108.3	97.1	92.1	90.8
47.5°	6286.1	2484.8	288.7	169.2	139.4	119.5	104.5	90.8	80.9	77.1	75.9
50°	6746.5	2512.2	268.8	148.1	121.9	103.3	88.3	75.9	69.7	65.9	65.9
52.5°	6956.8	2468.7	241.4	129.4	105.8	90.8	75.9	65.9	62.2	59.7	58.5
55°	7103.6	2401.5	205.3	112.0	90.8	77.1	67.2	59.7	54.7	52.3	51.0
57°	7189.5	2310.6	177.9	98.3	78.4	67.2	59.7	53.5	48.5	43.6	43.6
57.5°	7193.2	2275.8	170.5	97.1	74.7	64.7	58.5	52.3	46.0	41.1	39.8
60°	7082.5	2036.9	136.9	82.1	59.7	54.7	48.5	41.1	32.4	27.4	26.1
62.5°	6726.6	1733.3	113.2	69.7	48.5	42.3	34.8	31.1	22.4	16.2	16.2
65°	6187.8	1406.0	97.1	56.0	39.8	31.1	23.6	22.4	13.7	7.5	6.2
67.5°	5408.9	1095.0	82.1	46.0	33.6	22.4	16.2	14.9	7.5	2.5	0.0
70°	4121.1	746.6	68.4	37.3	24.9	16.2	11.2	8.7	5.0	1.2	0.0
72.5°	2375.3	410.6	57.2	28.6	18.7	12.4	8.7	5.0	5.0	0.0	0.0
75°	848.6	176.7	43.6	21.2	14.9	10.0	6.2	2.5	3.7	1.2	0.0
77.5°	270.0	94.6	28.6	16.2	12.4	7.5	5.0	2.5	2.5	1.2	0.0
80°	79.6	49.8	17.4	13.7	8.7	6.2	3.7	1.2	2.5	1.2	0.0
82.5°	43.6	24.9	13.7	10.0	8.7	5.0	3.7	1.2	1.2	1.2	0.0
85°	22.4	14.9	11.2	10.0	8.7	5.0	3.7	1.2	0.0	1.2	1.2
87.5°	12.4	11.2	11.2	10.0	8.7	6.2	3.7	1.2	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)