

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: P454878

Luminaire Tested: **GALN-SA6A-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454878
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-SA6A-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA 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: 19773 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

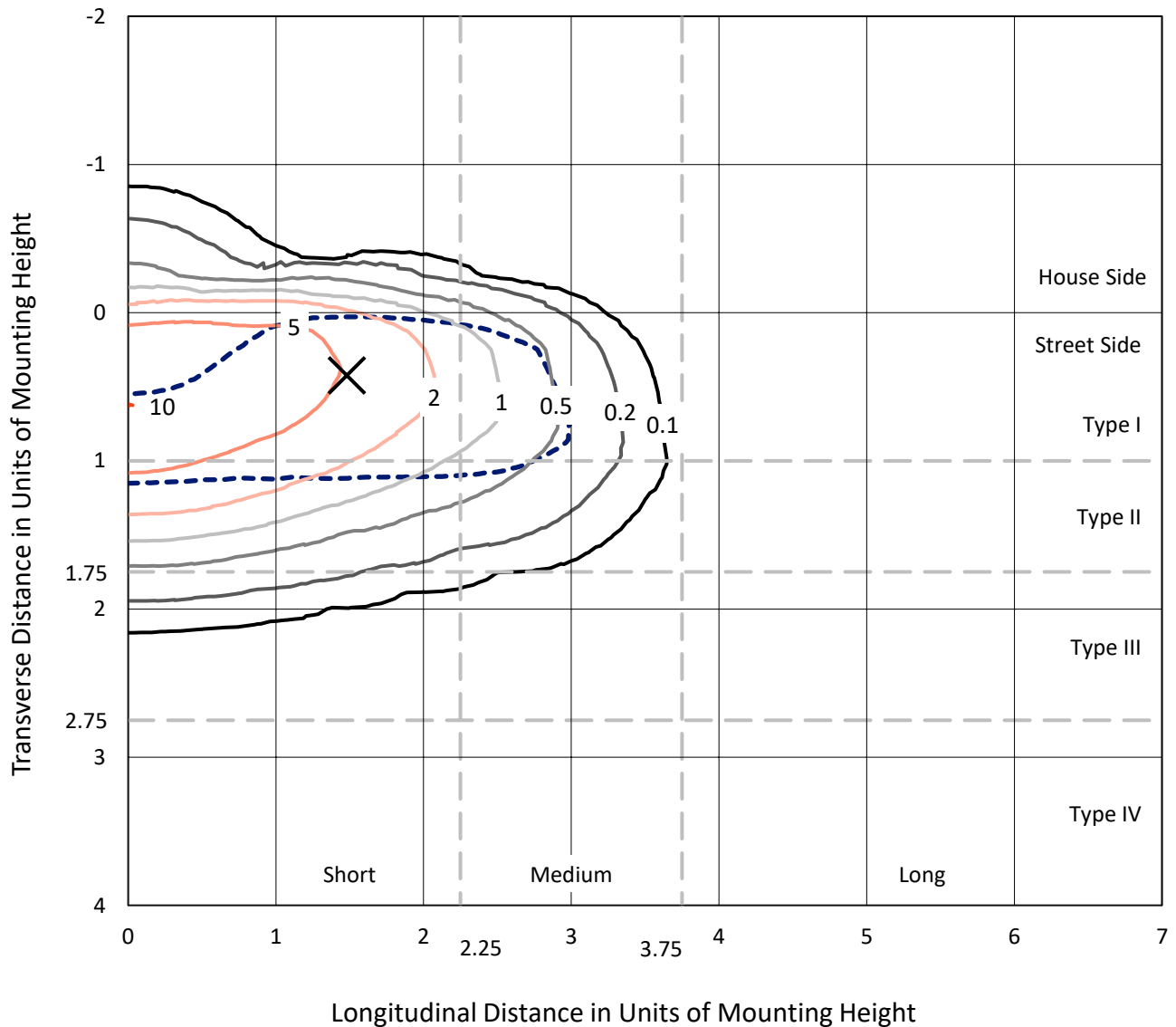
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

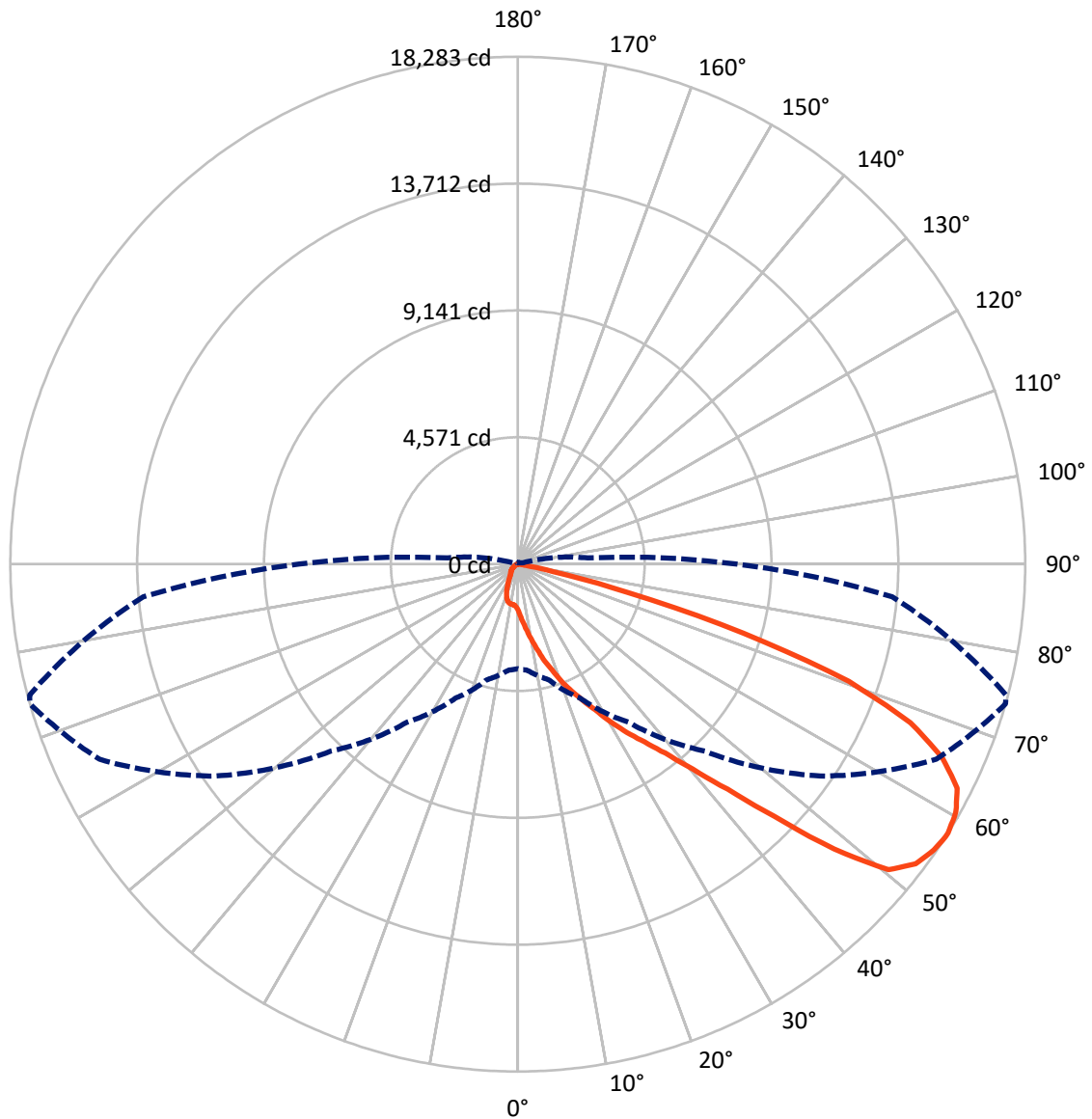
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	1140.5	0.0	1140.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	18632.6	0.0	18632.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	19773.0	0.0	19773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	1.0
10°-20°	787.8	4.0
20°-30°	1685.8	8.5
30°-40°	3098.5	15.7
40°-50°	4750.0	24.0
50°-60°	5024.8	25.4
60°-70°	3281.4	16.6
70°-80°	896.6	4.5
80°-90°	48.3	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°	19773.0	100.0
0°-180°	19773.0	100.0

Coefficient of Utilization



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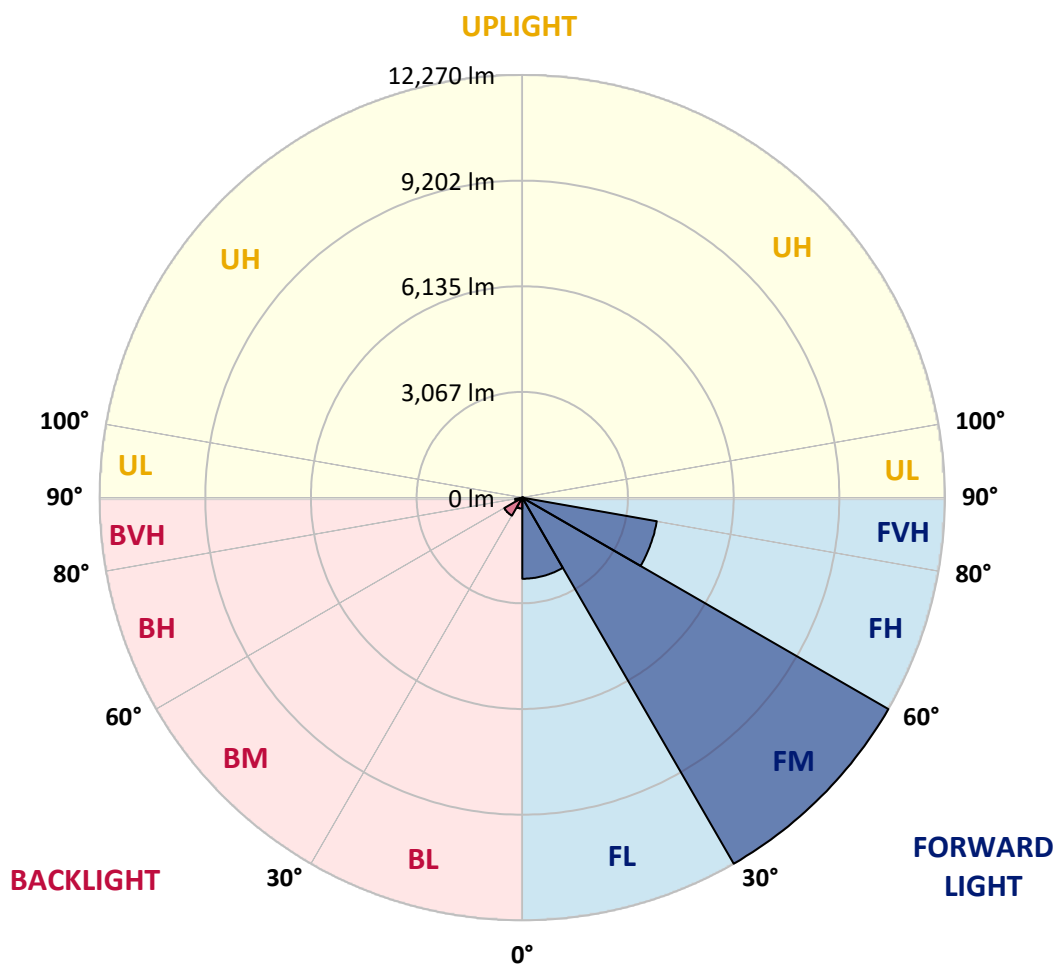
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.9	11.9			
FM (30°-60°)	12269.5	62.1			
FH (60°-80°)	3963.8	20.0			G2/5000
FVH (80°-90°)	44.3	0.2			G1/100
BL (0°-30°)	318.6	1.6	B1/500		
BM (30°-60°)	603.8	3.1	B1/1000		
BH (60°-80°)	214.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	2423.2	2401.4	2357.7	2342.6	2278.5	2178.8	2091.5	1974.0	1881.2	1871.7	1759.7
5°	3245.0	3195.9	3175.4	3077.1	2922.8	2778.1	2529.7	2341.3	2124.2	2107.8	1882.6
7.5°	4036.8	3968.6	3948.1	3855.3	3675.1	3447.1	3124.9	2782.2	2438.2	2406.8	2047.8
10°	4610.2	4619.8	4582.9	4521.5	4375.4	4143.3	3746.1	3277.8	2787.7	2748.1	2233.4
12.5°	5021.1	5019.8	5026.6	5025.2	4947.4	4771.3	4353.6	3814.3	3172.7	3094.9	2446.4
15°	5288.7	5292.8	5313.3	5384.3	5392.5	5283.2	4935.1	4327.6	3619.1	3522.2	2677.1
17.5°	5559.0	5587.7	5620.4	5687.3	5747.4	5703.7	5458.0	4862.8	4023.2	3950.8	2924.2
20°	6005.4	6045.0	6025.9	6066.9	6098.3	6102.4	5912.6	5357.0	4513.3	4391.8	3206.8
22.5°	6719.4	6718.0	6668.9	6595.2	6533.8	6531.0	6359.0	5864.8	4958.3	4840.9	3490.8
25°	7621.8	7625.9	7530.3	7320.1	7167.2	6980.2	6782.2	6309.9	5434.8	5290.1	3789.7
27.5°	8656.6	8630.7	8486.0	8196.5	7893.5	7574.0	7288.7	6827.3	5939.9	5819.8	4132.4
30°	9586.3	9576.7	9407.5	9053.9	8655.2	8334.4	7920.8	7475.7	6593.8	6446.4	4516.0
32.5°	10451.8	10465.5	10230.7	9864.8	9479.8	9109.8	8673.0	8095.5	7235.5	7026.6	4933.8
35°	11127.6	11141.2	10898.2	10593.8	10197.9	9890.7	9474.3	8756.3	7868.9	7692.8	5414.3
37.5°	11488.0	11505.7	11365.1	11135.8	10888.7	10734.4	10346.7	9606.8	8638.9	8532.4	5982.2
40°	11556.2	11576.7	11515.3	11453.9	11440.2	11550.8	11437.5	10608.8	9706.4	9539.9	6828.6
42.5°	11351.5	11378.8	11406.1	11542.6	11821.1	12226.5	12621.1	11968.5	11081.2	10857.3	7863.4
45°	10813.6	10810.9	10918.7	11272.3	11896.2	12761.7	13857.9	13670.9	12954.2	12688.0	9325.5
47.5°	9893.5	9879.8	10113.3	10617.0	11589.0	12860.0	14866.8	15737.8	15344.6	15098.9	10896.9
50°	8491.4	8558.3	8925.5	9628.6	10825.9	12562.4	15178.1	17093.4	17306.4	17045.6	12166.5
52.5°	6849.1	6846.4	7422.5	8376.7	9695.5	11907.1	14961.0	17339.1	17943.9	17744.6	12791.7
55°	5068.9	5104.4	5703.7	6666.2	8227.9	10711.2	14252.5	17086.6	18186.9	18046.3	13204.0
57°	3770.6	3833.4	4314.0	5332.4	6950.1	9527.6	13309.1	16634.7	18282.5	18206.0	13546.7
57.5°	3519.4	3522.2	3990.4	4916.0	6576.1	9073.0	13038.8	16446.3	18279.8	18237.4	13602.7
60°	2166.5	2234.8	2558.3	3322.8	4813.6	7081.2	11227.2	15363.7	18137.8	18199.2	13841.6
62.5°	1296.9	1325.6	1535.8	2002.7	3103.1	5168.6	9187.7	13978.1	17767.8	17954.8	13825.2
65°	834.1	841.0	936.5	1212.3	1939.9	3493.5	7079.8	12147.4	16810.8	17154.8	13284.6
67.5°	644.4	655.3	693.5	795.9	1124.9	2176.1	5007.5	10193.8	15262.7	15706.4	11974.0
70°	572.0	577.5	591.1	623.9	744.0	1228.7	3115.3	7963.1	12656.6	12782.2	9370.6
72.5°	466.9	481.9	524.2	535.2	589.8	767.2	1733.8	5344.7	8503.7	8535.1	5242.3
75°	361.8	364.5	427.3	458.7	496.9	528.3	774.1	2694.9	4084.6	3866.2	2020.5
77.5°	270.3	282.6	311.3	350.9	405.5	378.2	346.8	1015.7	1268.3	1245.0	587.0
80°	173.4	180.2	217.1	263.5	315.4	247.1	195.2	297.6	278.5	286.7	140.6
82.5°	87.4	88.7	139.2	214.3	200.7	124.2	122.9	121.5	103.8	102.4	65.5
85°	9.6	20.5	90.1	122.9	90.1	41.0	57.3	56.0	54.6	56.0	38.2
87.5°	1.4	1.4	15.0	17.7	12.3	13.7	16.4	17.7	21.8	20.5	16.4
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°	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0	1656.0
2.5°	1705.1	1650.5	1549.5	1452.6	1380.2	1333.8	1273.7	1251.9	1220.5	1216.4	1201.4
5°	1778.8	1675.1	1499.0	1359.7	1247.8	1163.1	1089.4	1028.0	978.8	967.9	973.4
7.5°	1883.9	1729.7	1484.0	1294.2	1138.6	993.9	876.4	804.1	752.2	733.1	735.8
10°	2002.7	1802.0	1481.2	1224.6	987.0	809.6	681.2	617.1	587.0	576.1	563.8
12.5°	2143.3	1885.3	1474.4	1116.7	820.5	645.7	554.3	516.0	487.4	479.2	479.2
15°	2301.7	1974.0	1441.6	982.9	666.2	533.8	472.4	442.3	432.8	424.6	424.6
17.5°	2466.9	2061.4	1373.4	817.7	552.9	457.3	419.1	401.4	387.7	378.2	378.2
20°	2655.3	2147.4	1264.2	671.7	466.9	408.2	378.2	357.7	346.8	338.6	335.8
22.5°	2834.1	2217.1	1124.9	551.5	406.8	367.2	339.9	318.1	307.2	303.1	303.1
25°	3019.8	2259.4	957.0	456.0	371.3	333.1	303.1	285.3	275.8	273.0	271.7
27.5°	3200.0	2283.9	809.6	398.6	338.6	301.7	273.0	259.4	249.8	247.1	248.5
30°	3418.4	2288.0	666.2	357.7	309.9	271.7	245.7	233.4	228.0	225.3	223.9
32.5°	3639.6	2282.6	559.7	333.1	282.6	245.7	223.9	214.3	210.2	206.1	206.1
35°	3888.0	2253.9	476.4	308.5	256.7	223.9	204.8	196.6	191.1	187.0	185.7
37.5°	4196.6	2238.9	428.7	281.2	233.4	203.4	185.7	177.5	173.4	167.9	166.6
40°	4682.6	2305.8	413.6	256.7	210.2	184.3	167.9	158.4	152.9	147.4	146.1
42.5°	5288.7	2423.2	389.1	232.1	189.8	166.6	150.2	139.2	129.7	122.9	120.1
45°	6073.7	2577.5	350.9	206.1	172.0	147.4	132.4	118.8	106.5	101.0	99.7
47.5°	6896.9	2726.3	316.7	185.7	152.9	131.1	114.7	99.7	88.7	84.6	83.3
50°	7402.0	2756.3	294.9	162.5	133.8	113.3	96.9	83.3	76.5	72.4	72.4
52.5°	7632.7	2708.5	264.8	142.0	116.0	99.7	83.3	72.4	68.3	65.5	64.2
55°	7793.8	2634.8	225.3	122.9	99.7	84.6	73.7	65.5	60.1	57.3	56.0
57°	7888.0	2535.1	195.2	107.8	86.0	73.7	65.5	58.7	53.2	47.8	47.8
57.5°	7892.1	2496.9	187.0	106.5	81.9	71.0	64.2	57.3	50.5	45.1	43.7
60°	7770.6	2234.8	150.2	90.1	65.5	60.1	53.2	45.1	35.5	30.0	28.7
62.5°	7380.2	1901.7	124.2	76.5	53.2	46.4	38.2	34.1	24.6	17.7	17.7
65°	6789.0	1542.7	106.5	61.4	43.7	34.1	25.9	24.6	15.0	8.2	6.8
67.5°	5934.4	1201.4	90.1	50.5	36.9	24.6	17.7	16.4	8.2	2.7	0.0
70°	4521.5	819.1	75.1	41.0	27.3	17.7	12.3	9.6	5.5	1.4	0.0
72.5°	2606.1	450.5	62.8	31.4	20.5	13.7	9.6	5.5	5.5	0.0	0.0
75°	931.1	193.9	47.8	23.2	16.4	10.9	6.8	2.7	4.1	1.4	0.0
77.5°	296.2	103.8	31.4	17.7	13.7	8.2	5.5	2.7	2.7	1.4	0.0
80°	87.4	54.6	19.1	15.0	9.6	6.8	4.1	1.4	2.7	1.4	0.0
82.5°	47.8	27.3	15.0	10.9	9.6	5.5	4.1	1.4	1.4	1.4	0.0
85°	24.6	16.4	12.3	10.9	9.6	5.5	4.1	1.4	0.0	1.4	1.4
87.5°	13.7	12.3	12.3	10.9	9.6	6.8	4.1	1.4	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)