

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: P455255

Luminaire Tested: **GALN-SA6B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455255
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-SA6B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 21467 lumens
Efficiency: N/A
Efficacy: 88.3 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): 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

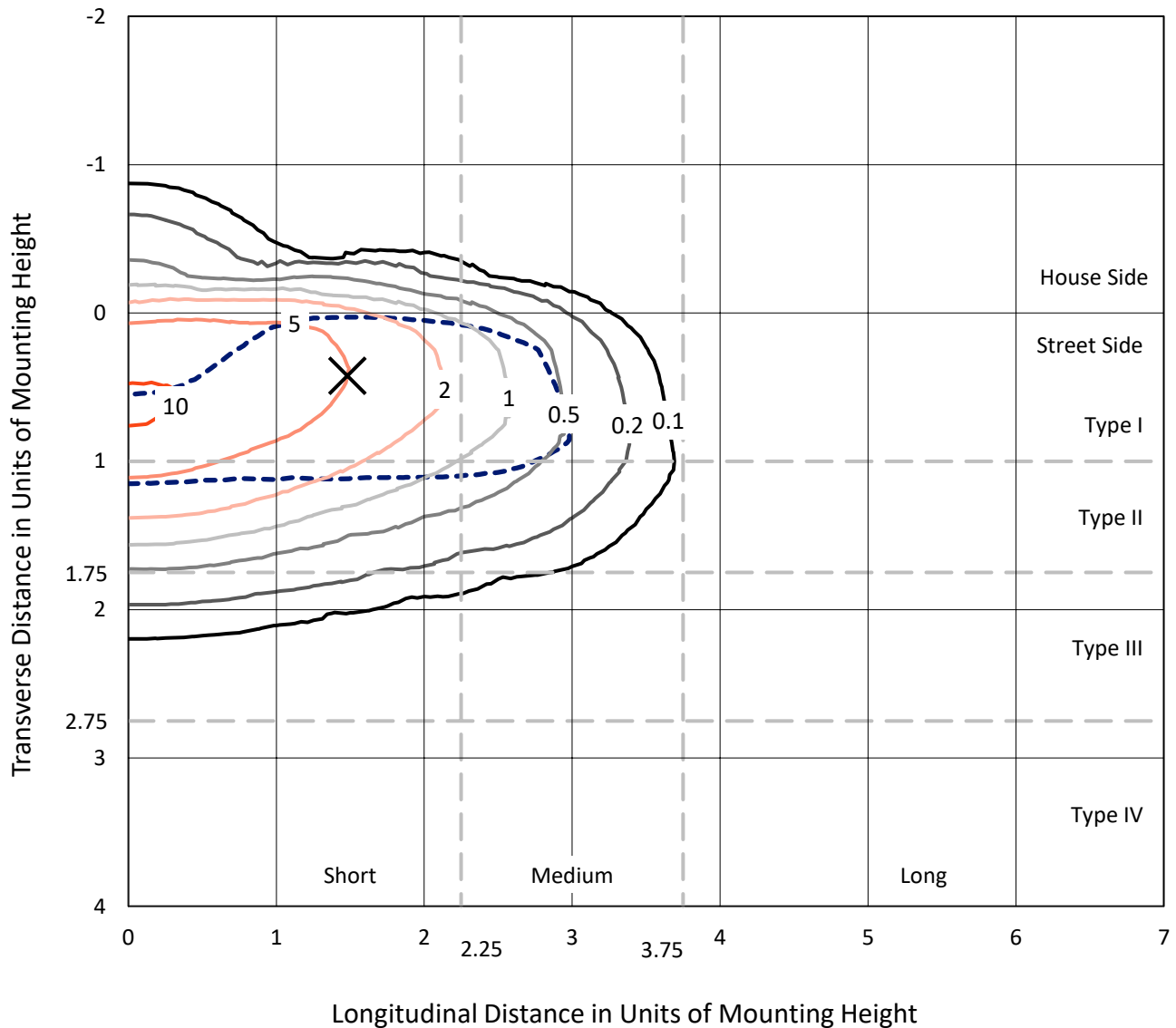


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Iso-Footcandle Lines of Horizontal Illumination

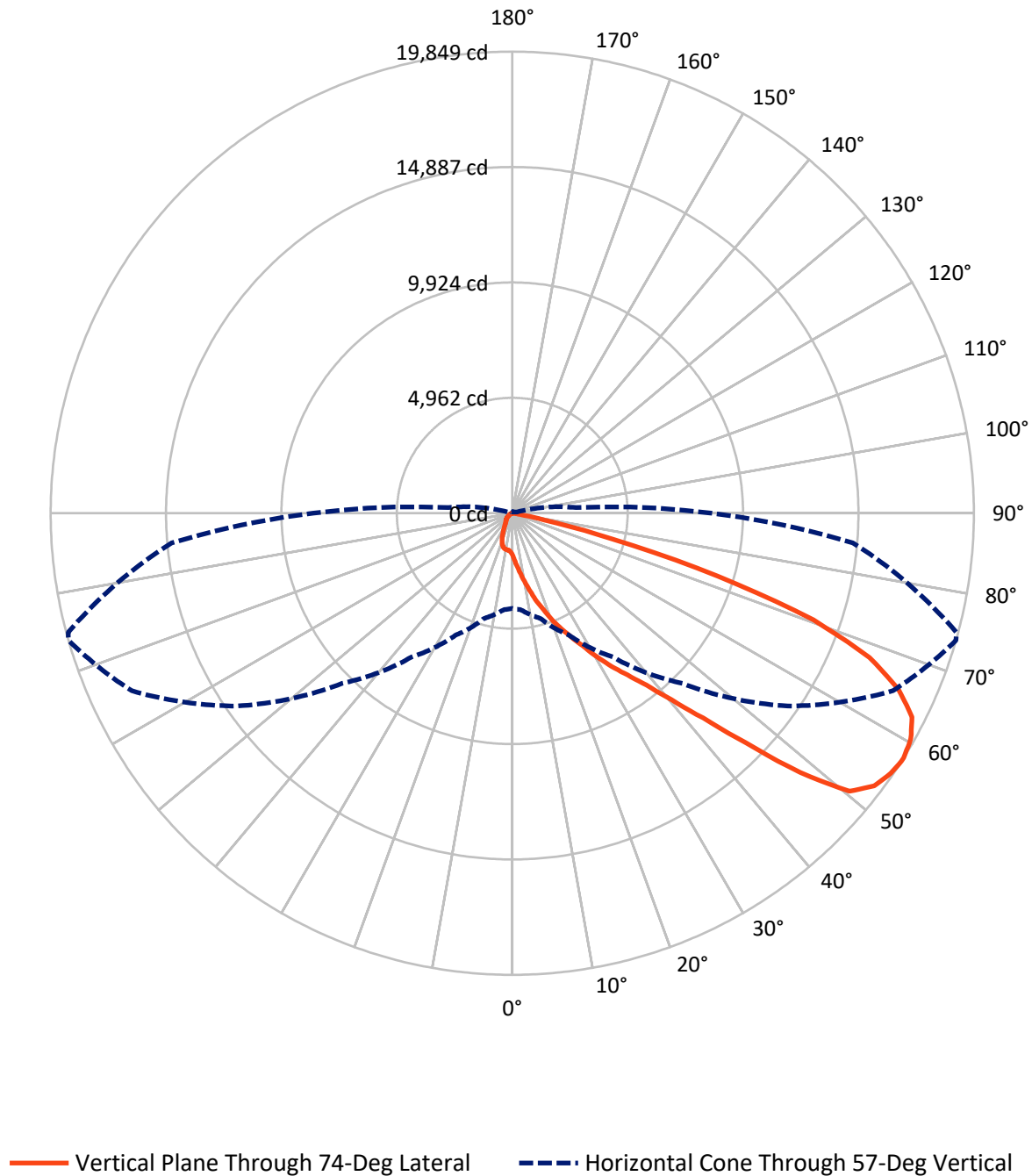
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1238.1	0.0	1238.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20228.8	0.0	20228.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	21467.0	0.0	21467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.0	1.0
10°-20°	855.3	4.0
20°-30°	1830.2	8.5
30°-40°	3363.9	15.7
40°-50°	5156.9	24.0
50°-60°	5455.3	25.4
60°-70°	3562.5	16.6
70°-80°	973.4	4.5
80°-90°	52.4	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°	21467.0	100.0
0°-180°	21467.0	100.0

Coefficient of Utilization



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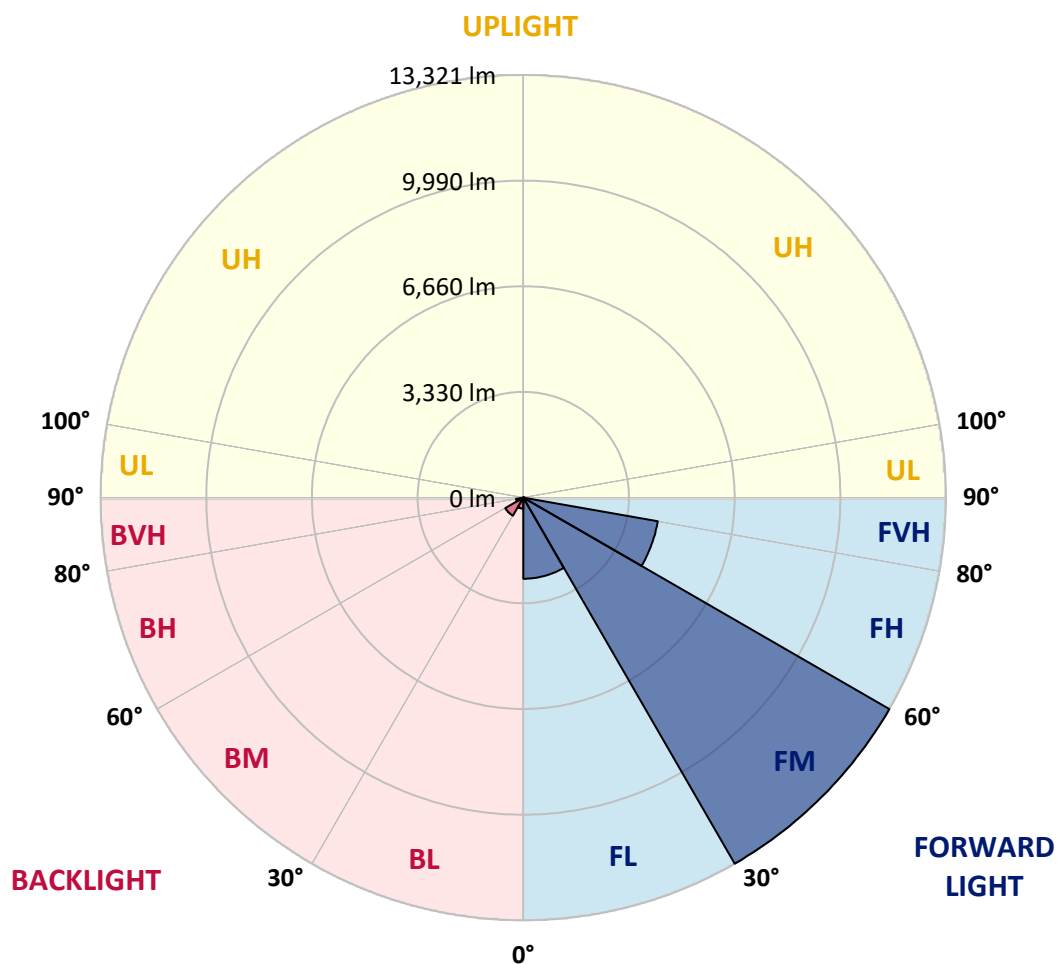
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2556.7	11.9			
FM	(30°-60°)	13320.7	62.1			
FH	(60°-80°)	4303.4	20.0			G2/5000
FVH	(80°-90°)	48.1	0.2			G1/100
BL	(0°-30°)	345.9	1.6	B1/500		
BM	(30°-60°)	655.5	3.1	B1/1000		
BH	(60°-80°)	232.5	1.1	B1/500		G1/500
BVH	(80°-90°)	4.3	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°	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8
2.5°	2630.8	2607.1	2559.7	2543.3	2473.7	2365.5	2270.6	2143.2	2042.4	2032.0	1910.5
5°	3523.0	3469.7	3447.5	3340.7	3173.3	3016.2	2746.4	2541.9	2306.2	2288.4	2043.9
7.5°	4382.7	4308.6	4286.3	4185.6	3989.9	3742.4	3392.6	3020.6	2647.1	2613.0	2223.2
10°	5005.2	5015.6	4975.5	4908.8	4750.3	4498.3	4067.0	3558.6	3026.5	2983.5	2424.8
12.5°	5451.3	5449.8	5457.2	5455.7	5371.3	5180.1	4726.5	4141.1	3444.5	3360.0	2656.0
15°	5741.8	5746.2	5768.5	5845.6	5854.4	5735.9	5357.9	4698.4	3929.1	3823.9	2906.5
17.5°	6035.3	6066.4	6102.0	6174.6	6239.8	6192.4	5925.6	5279.4	4367.9	4289.3	3174.7
20°	6519.9	6562.9	6542.2	6586.6	6620.7	6625.2	6419.1	5815.9	4899.9	4768.0	3481.5
22.5°	7295.1	7293.6	7240.2	7160.2	7093.5	7090.5	6903.8	6367.3	5383.1	5255.7	3789.8
25°	8274.8	8279.2	8175.5	7947.2	7781.2	7578.2	7363.3	6850.4	5900.4	5743.3	4114.4
27.5°	9398.2	9370.1	9213.0	8898.8	8569.7	8222.9	7913.1	7412.2	6448.8	6318.4	4486.4
30°	10407.6	10397.2	10213.4	9829.5	9396.8	9048.5	8599.4	8116.2	7158.7	6998.7	4902.9
32.5°	11347.2	11362.1	11107.1	10709.9	10292.0	9890.3	9416.0	8789.1	7855.3	7628.6	5356.4
35°	12080.9	12095.7	11831.9	11501.4	11071.6	10738.1	10286.0	9506.4	8543.0	8351.8	5878.2
37.5°	12472.2	12491.5	12338.8	12089.8	11821.5	11654.1	11233.1	10429.8	9379.0	9263.4	6494.7
40°	12546.3	12568.5	12501.8	12435.1	12420.3	12540.4	12417.4	11517.7	10538.0	10357.2	7413.7
42.5°	12324.0	12353.6	12383.3	12531.5	12833.8	13274.0	13702.4	12993.9	12030.5	11787.4	8537.1
45°	11740.0	11737.1	11854.1	12238.0	12915.3	13855.0	15045.2	14842.1	14064.0	13775.0	10124.5
47.5°	10741.1	10726.2	10979.7	11526.6	12581.9	13961.7	16140.5	17086.1	16659.2	16392.4	11830.4
50°	9218.9	9291.5	9690.2	10453.5	11753.4	13638.6	16478.4	18557.8	18789.1	18506.0	13208.8
52.5°	7435.9	7432.9	8058.4	9094.4	10526.1	12927.2	16242.7	18824.6	19481.2	19264.8	13887.6
55°	5503.2	5541.7	6192.4	7237.3	8932.8	11628.9	15473.5	18550.4	19745.0	19592.4	14335.2
57°	4093.7	4161.8	4683.6	5789.2	7545.6	10343.8	14449.4	18059.9	19848.8	19765.8	14707.3
57.5°	3821.0	3823.9	4332.3	5337.2	7139.5	9850.3	14155.9	17855.3	19845.8	19799.9	14768.0
60°	2352.2	2426.3	2777.5	3607.5	5226.0	7687.8	12189.1	16680.0	19691.7	19758.4	15027.4
62.5°	1408.0	1439.2	1667.4	2174.3	3368.9	5611.4	9974.8	15175.6	19290.0	19493.1	15009.6
65°	905.6	913.0	1016.7	1316.1	2106.1	3792.8	7686.4	13188.1	18251.0	18624.5	14422.7
67.5°	699.6	711.4	752.9	864.1	1221.3	2362.5	5436.5	11067.1	16570.3	17052.0	12999.8
70°	621.0	626.9	641.8	677.3	807.8	1333.9	3382.2	8645.3	13740.9	13877.3	10173.4
72.5°	506.9	523.2	569.1	581.0	640.3	833.0	1882.3	5802.6	9232.2	9266.3	5691.4
75°	392.8	395.7	463.9	498.0	539.5	573.6	840.4	2925.7	4434.6	4197.4	2193.6
77.5°	293.5	306.8	337.9	380.9	440.2	410.6	376.5	1102.7	1376.9	1351.7	637.3
80°	188.2	195.6	235.7	286.1	342.4	268.3	211.9	323.1	302.4	311.2	152.7
82.5°	94.9	96.3	151.2	232.7	217.9	134.9	133.4	131.9	112.6	111.2	71.1
85°	10.4	22.2	97.8	133.4	97.8	44.5	62.2	60.8	59.3	60.8	41.5
87.5°	1.5	1.5	16.3	19.3	13.3	14.8	17.8	19.3	23.7	22.2	17.8
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°	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8	1797.8
2.5°	1851.2	1791.9	1682.2	1577.0	1498.4	1448.0	1382.8	1359.1	1325.0	1320.6	1304.3
5°	1931.2	1818.6	1627.4	1476.2	1354.7	1262.8	1182.7	1116.0	1062.7	1050.8	1056.8
7.5°	2045.4	1877.9	1611.1	1405.1	1236.1	1079.0	951.5	873.0	816.7	795.9	798.9
10°	2174.3	1956.4	1608.1	1329.5	1071.6	878.9	739.6	669.9	637.3	625.5	612.1
12.5°	2327.0	2046.8	1600.7	1212.4	890.8	701.1	601.7	560.2	529.1	520.2	520.2
15°	2498.9	2143.2	1565.1	1067.1	723.3	579.5	512.8	480.2	469.8	460.9	460.9
17.5°	2678.2	2238.0	1491.0	887.8	600.3	496.5	455.0	435.7	420.9	410.6	410.6
20°	2882.8	2331.4	1372.5	729.2	506.9	443.2	410.6	388.3	376.5	367.6	364.6
22.5°	3076.9	2407.0	1221.3	598.8	441.7	398.7	369.1	345.3	333.5	329.0	329.0
25°	3278.5	2452.9	1039.0	495.0	403.1	361.6	329.0	309.8	299.4	296.4	294.9
27.5°	3474.1	2479.6	878.9	432.8	367.6	327.6	296.4	281.6	271.2	268.3	269.7
30°	3711.3	2484.1	723.3	388.3	336.4	294.9	266.8	253.4	247.5	244.6	243.1
32.5°	3951.4	2478.1	607.7	361.6	306.8	266.8	243.1	232.7	228.2	223.8	223.8
35°	4221.1	2447.0	517.3	335.0	278.6	243.1	222.3	213.4	207.5	203.1	201.6
37.5°	4556.1	2430.7	465.4	305.3	253.4	220.8	201.6	192.7	188.2	182.3	180.8
40°	5083.7	2503.3	449.1	278.6	228.2	200.1	182.3	171.9	166.0	160.1	158.6
42.5°	5741.8	2630.8	422.4	252.0	206.0	180.8	163.0	151.2	140.8	133.4	130.4
45°	6594.0	2798.3	380.9	223.8	186.7	160.1	143.8	128.9	115.6	109.7	108.2
47.5°	7487.8	2959.8	343.9	201.6	166.0	142.3	124.5	108.2	96.3	91.9	90.4
50°	8036.2	2992.4	320.1	176.4	145.2	123.0	105.2	90.4	83.0	78.6	78.6
52.5°	8286.6	2940.6	287.5	154.1	126.0	108.2	90.4	78.6	74.1	71.1	69.7
55°	8461.5	2860.5	244.6	133.4	108.2	91.9	80.0	71.1	65.2	62.2	60.8
57°	8563.8	2752.3	211.9	117.1	93.4	80.0	71.1	63.7	57.8	51.9	51.9
57.5°	8568.2	2710.8	203.1	115.6	88.9	77.1	69.7	62.2	54.8	48.9	47.4
60°	8436.3	2426.3	163.0	97.8	71.1	65.2	57.8	48.9	38.5	32.6	31.1
62.5°	8012.4	2064.6	134.9	83.0	57.8	50.4	41.5	37.1	26.7	19.3	19.3
65°	7370.7	1674.8	115.6	66.7	47.4	37.1	28.2	26.7	16.3	8.9	7.4
67.5°	6442.9	1304.3	97.8	54.8	40.0	26.7	19.3	17.8	8.9	3.0	0.0
70°	4908.8	889.3	81.5	44.5	29.6	19.3	13.3	10.4	5.9	1.5	0.0
72.5°	2829.4	489.1	68.2	34.1	22.2	14.8	10.4	5.9	5.9	0.0	0.0
75°	1010.8	210.5	51.9	25.2	17.8	11.9	7.4	3.0	4.4	1.5	0.0
77.5°	321.6	112.6	34.1	19.3	14.8	8.9	5.9	3.0	3.0	1.5	0.0
80°	94.9	59.3	20.7	16.3	10.4	7.4	4.4	1.5	3.0	1.5	0.0
82.5°	51.9	29.6	16.3	11.9	10.4	5.9	4.4	1.5	1.5	1.5	0.0
85°	26.7	17.8	13.3	11.9	10.4	5.9	4.4	1.5	0.0	1.5	1.5
87.5°	14.8	13.3	13.3	11.9	10.4	7.4	4.4	1.5	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)