

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: P452703

Luminaire Tested: **GALN-SA3C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452703
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-SA3C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 13352 lumens
Efficiency: N/A
Efficacy: 83.5 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): 160
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

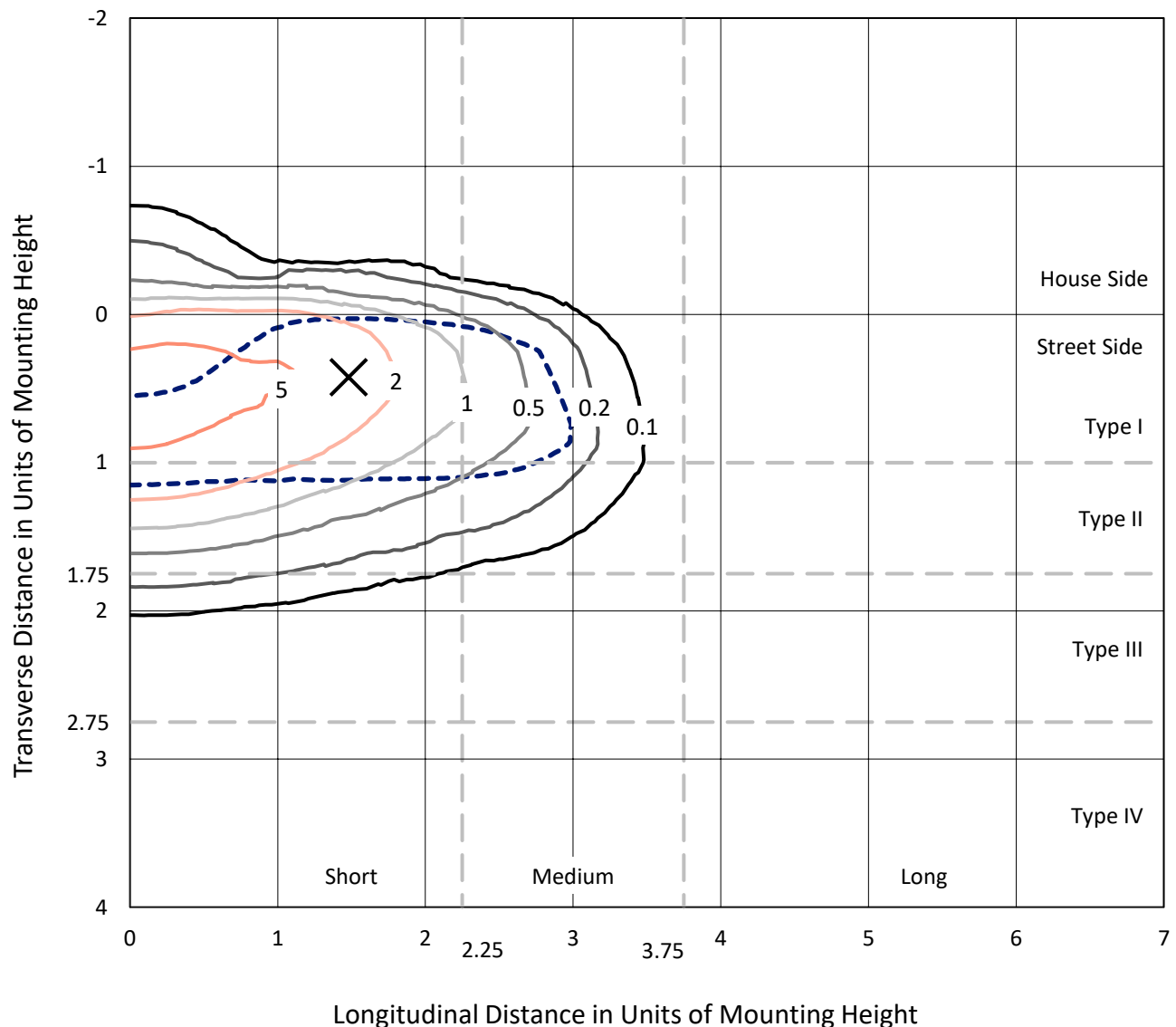


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

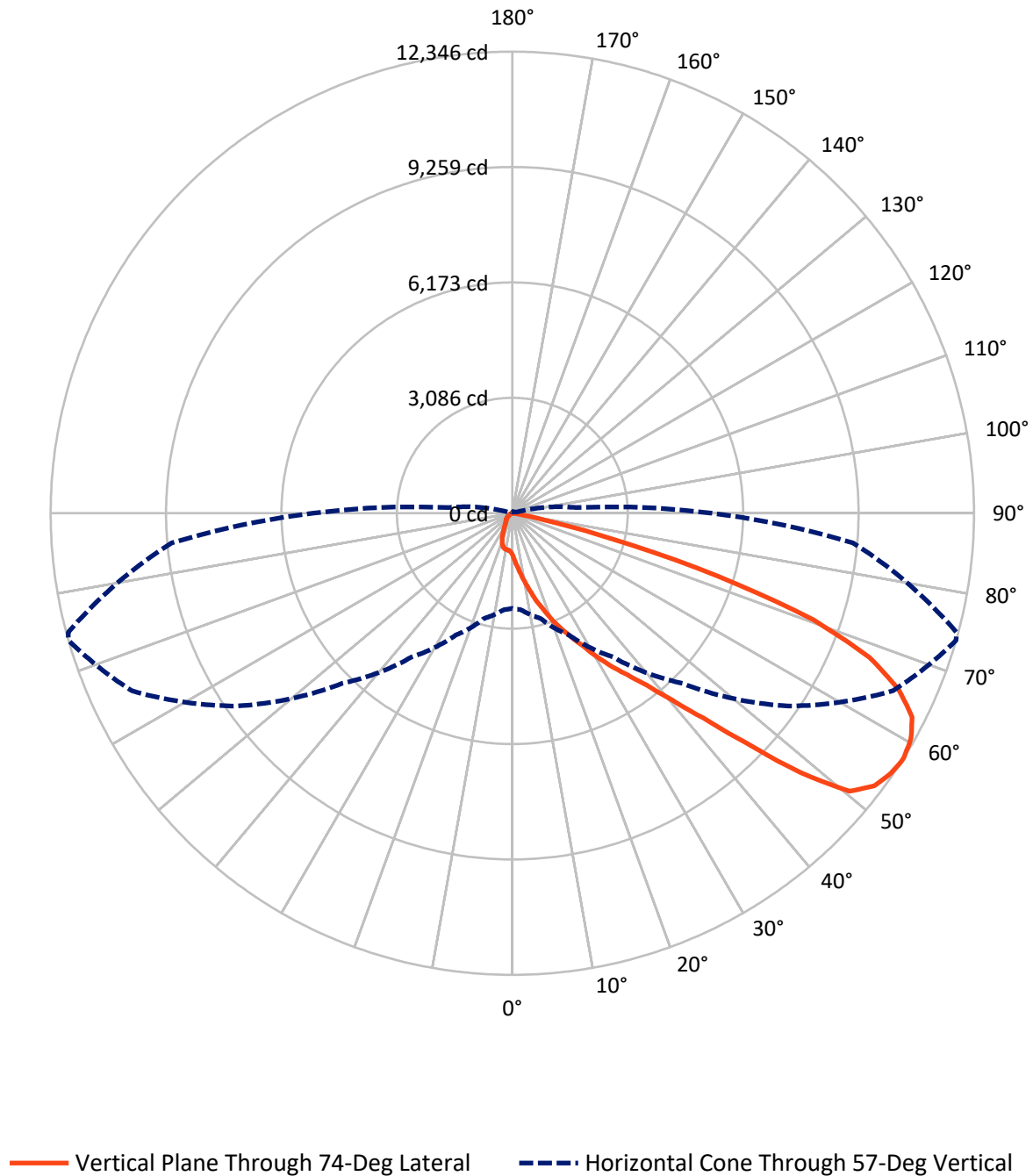


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	770.1	0.0	770.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	12581.9	0.0	12581.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	13352.0	0.0	13352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.0
10°-20°	532.0	4.0
20°-30°	1138.4	8.5
30°-40°	2092.3	15.7
40°-50°	3207.5	24.0
50°-60°	3393.1	25.4
60°-70°	2215.8	16.6
70°-80°	605.4	4.5
80°-90°	32.6	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°	13352.0	100.0
0°-180°	13352.0	100.0

Coefficient of Utilization



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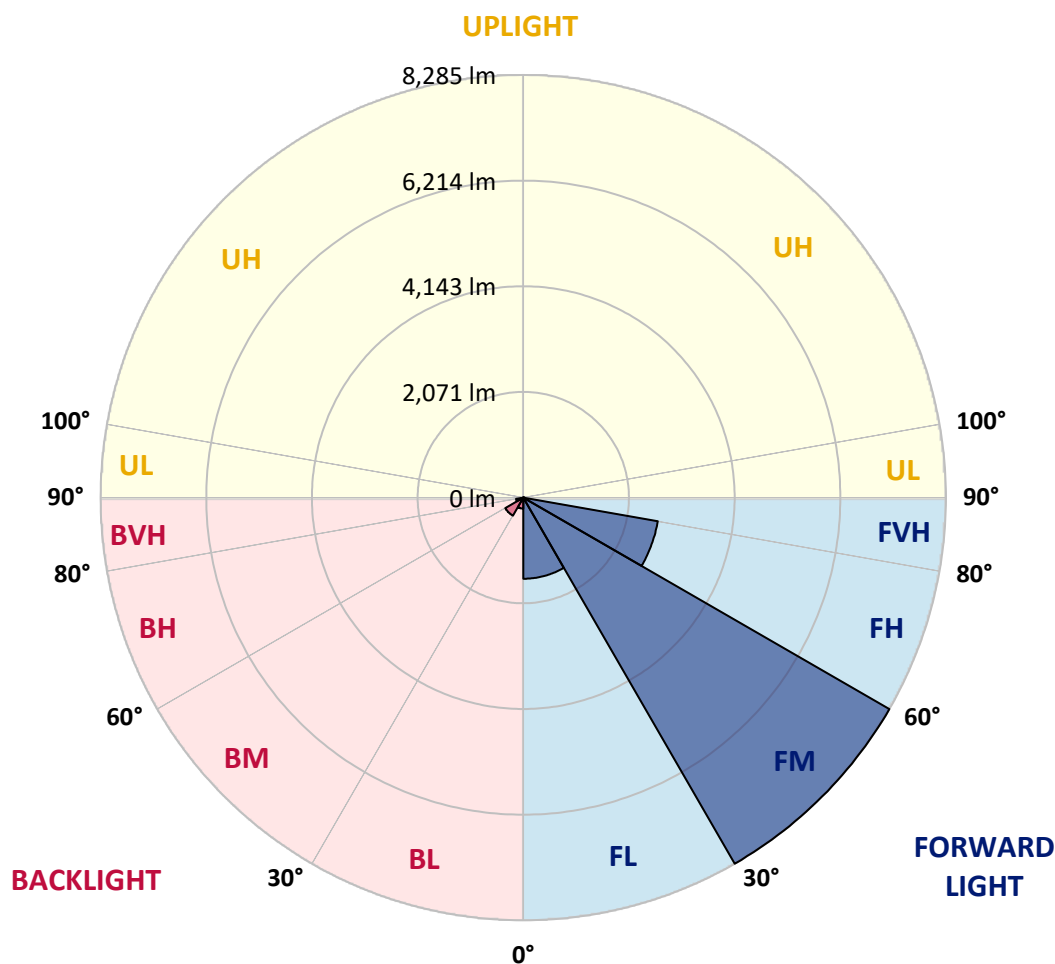
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1590.2	11.9			
FM	(30°-60°)	8285.2	62.1			
FH	(60°-80°)	2676.6	20.0			G2/5000
FVH	(80°-90°)	29.9	0.2			G1/100
BL	(0°-30°)	215.1	1.6	B1/500		
BM	(30°-60°)	407.7	3.1	B1/1000		
BH	(60°-80°)	144.6	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2
2.5°	1636.3	1621.5	1592.0	1581.9	1538.6	1471.3	1412.3	1333.0	1270.3	1263.9	1188.3
5°	2191.3	2158.1	2144.2	2077.9	1973.7	1876.0	1708.2	1581.0	1434.4	1423.3	1271.2
7.5°	2725.9	2679.8	2666.0	2603.3	2481.6	2327.7	2110.1	1878.7	1646.4	1625.2	1382.8
10°	3113.1	3119.6	3094.7	3053.2	2954.6	2797.8	2529.6	2213.4	1882.4	1855.7	1508.2
12.5°	3390.6	3389.7	3394.3	3393.4	3340.8	3221.9	2939.8	2575.7	2142.4	2089.8	1652.0
15°	3571.3	3574.0	3587.9	3635.8	3641.3	3567.6	3332.5	2922.3	2443.8	2378.4	1807.8
17.5°	3753.8	3773.2	3795.3	3840.5	3881.0	3851.5	3685.6	3283.7	2716.7	2667.9	1974.6
20°	4055.2	4082.0	4069.1	4096.7	4117.9	4120.7	3992.6	3617.4	3047.7	2965.6	2165.4
22.5°	4537.4	4536.5	4503.3	4453.5	4412.0	4410.2	4294.0	3960.3	3348.2	3268.9	2357.2
25°	5146.7	5149.5	5085.0	4943.0	4839.7	4713.5	4579.8	4260.8	3669.9	3572.2	2559.1
27.5°	5845.5	5828.0	5730.3	5534.8	5330.2	5114.5	4921.8	4610.2	4011.0	3929.9	2790.5
30°	6473.3	6466.8	6352.5	6113.8	5844.6	5627.9	5348.6	5048.1	4452.6	4353.0	3049.5
32.5°	7057.7	7067.0	6908.4	6661.3	6401.4	6151.6	5856.6	5466.6	4885.8	4744.8	3331.6
35°	7514.1	7523.3	7359.2	7153.6	6886.3	6678.9	6397.7	5912.8	5313.6	5194.7	3656.1
37.5°	7757.4	7769.4	7674.5	7519.6	7352.7	7248.6	6986.8	6487.1	5833.5	5761.6	4039.6
40°	7803.5	7817.3	7775.9	7734.4	7725.2	7799.8	7723.3	7163.8	6554.4	6441.9	4611.1
42.5°	7665.2	7683.7	7702.1	7794.3	7982.4	8256.2	8522.6	8081.9	7482.7	7331.5	5309.9
45°	7302.0	7300.2	7373.0	7611.8	8033.1	8617.5	9357.8	9231.5	8747.5	8567.7	6297.2
47.5°	6680.7	6671.5	6829.1	7169.3	7825.6	8683.9	10039.0	10627.2	10361.7	10195.7	7358.3
50°	5734.0	5779.1	6027.1	6501.9	7310.3	8482.9	10249.2	11542.6	11686.4	11510.3	8215.6
52.5°	4625.0	4623.1	5012.1	5656.5	6547.0	8040.4	10102.6	11708.5	12116.9	11982.3	8637.8
55°	3422.9	3446.8	3851.5	4501.4	5556.0	7232.9	9624.2	11538.0	12281.0	12186.0	8916.2
57°	2546.2	2588.6	2913.1	3600.8	4693.2	6433.6	8987.2	11232.8	12345.5	12293.9	9147.6
57.5°	2376.5	2378.4	2694.6	3319.6	4440.6	6126.7	8804.7	11105.6	12343.7	12315.1	9185.4
60°	1463.0	1509.1	1727.6	2243.8	3250.5	4781.7	7581.4	10374.6	12247.8	12289.3	9346.7
62.5°	875.8	895.1	1037.1	1352.4	2095.4	3490.2	6204.1	9438.9	11998.0	12124.3	9335.6
65°	563.3	567.9	632.4	818.6	1310.0	2359.0	4780.8	8202.7	11351.7	11584.1	8970.6
67.5°	435.1	442.5	468.3	537.4	759.6	1469.4	3381.4	6883.5	10306.4	10606.0	8085.6
70°	386.3	389.9	399.2	421.3	502.4	829.7	2103.7	5377.2	8546.5	8631.3	6327.6
72.5°	315.3	325.4	354.0	361.4	398.2	518.1	1170.8	3609.1	5742.2	5763.5	3539.9
75°	244.3	246.1	288.5	309.7	335.6	356.8	522.7	1819.7	2758.2	2610.7	1364.3
77.5°	182.5	190.8	210.2	236.9	273.8	255.4	234.2	685.9	856.4	840.7	396.4
80°	117.1	121.7	146.6	177.9	212.9	166.9	131.8	201.0	188.1	193.6	95.0
82.5°	59.0	59.9	94.0	144.7	135.5	83.9	83.0	82.0	70.1	69.1	44.2
85°	6.5	13.8	60.8	83.0	60.8	27.7	38.7	37.8	36.9	37.8	25.8
87.5°	0.9	0.9	10.1	12.0	8.3	9.2	11.1	12.0	14.7	13.8	11.1
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°	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2	1118.2
2.5°	1151.4	1114.5	1046.3	980.9	932.0	900.7	860.1	845.3	824.1	821.4	811.2
5°	1201.2	1131.1	1012.2	918.2	842.6	785.4	735.6	694.2	661.0	653.6	657.3
7.5°	1272.2	1168.0	1002.1	873.9	768.8	671.1	591.8	543.0	507.9	495.0	496.9
10°	1352.4	1216.9	1000.2	826.9	666.5	546.7	460.0	416.7	396.4	389.0	380.7
12.5°	1447.3	1273.1	995.6	754.1	554.0	436.0	374.3	348.5	329.1	323.6	323.6
15°	1554.3	1333.0	973.5	663.7	449.9	360.4	319.0	298.7	292.2	286.7	286.7
17.5°	1665.8	1392.0	927.4	552.2	373.4	308.8	283.0	271.0	261.8	255.4	255.4
20°	1793.0	1450.1	853.6	453.6	315.3	275.6	255.4	241.5	234.2	228.6	226.8
22.5°	1913.8	1497.1	759.6	372.4	274.7	248.0	229.5	214.8	207.4	204.7	204.7
25°	2039.1	1525.7	646.2	307.9	250.7	224.9	204.7	192.7	186.2	184.4	183.4
27.5°	2160.8	1542.3	546.7	269.2	228.6	203.7	184.4	175.2	168.7	166.9	167.8
30°	2308.3	1545.0	449.9	241.5	209.3	183.4	165.9	157.6	154.0	152.1	151.2
32.5°	2457.7	1541.3	378.0	224.9	190.8	165.9	151.2	144.7	142.0	139.2	139.2
35°	2625.4	1522.0	321.7	208.3	173.3	151.2	138.3	132.7	129.1	126.3	125.4
37.5°	2833.8	1511.8	289.5	189.9	157.6	137.4	125.4	119.8	117.1	113.4	112.5
40°	3162.0	1557.0	279.3	173.3	142.0	124.5	113.4	106.9	103.2	99.6	98.6
42.5°	3571.3	1636.3	262.7	156.7	128.1	112.5	101.4	94.0	87.6	83.0	81.1
45°	4101.3	1740.5	236.9	139.2	116.2	99.6	89.4	80.2	71.9	68.2	67.3
47.5°	4657.2	1840.9	213.9	125.4	103.2	88.5	77.4	67.3	59.9	57.2	56.2
50°	4998.3	1861.2	199.1	109.7	90.3	76.5	65.5	56.2	51.6	48.9	48.9
52.5°	5154.1	1829.0	178.8	95.9	78.4	67.3	56.2	48.9	46.1	44.2	43.3
55°	5262.9	1779.2	152.1	83.0	67.3	57.2	49.8	44.2	40.6	38.7	37.8
57°	5326.5	1711.9	131.8	72.8	58.1	49.8	44.2	39.6	36.0	32.3	32.3
57.5°	5329.3	1686.1	126.3	71.9	55.3	47.9	43.3	38.7	34.1	30.4	29.5
60°	5247.2	1509.1	101.4	60.8	44.2	40.6	36.0	30.4	24.0	20.3	19.4
62.5°	4983.6	1284.1	83.9	51.6	36.0	31.3	25.8	23.0	16.6	12.0	12.0
65°	4584.4	1041.7	71.9	41.5	29.5	23.0	17.5	16.6	10.1	5.5	4.6
67.5°	4007.3	811.2	60.8	34.1	24.9	16.6	12.0	11.1	5.5	1.8	0.0
70°	3053.2	553.1	50.7	27.7	18.4	12.0	8.3	6.5	3.7	0.9	0.0
72.5°	1759.8	304.2	42.4	21.2	13.8	9.2	6.5	3.7	3.7	0.0	0.0
75°	628.7	130.9	32.3	15.7	11.1	7.4	4.6	1.8	2.8	0.9	0.0
77.5°	200.0	70.1	21.2	12.0	9.2	5.5	3.7	1.8	1.8	0.9	0.0
80°	59.0	36.9	12.9	10.1	6.5	4.6	2.8	0.9	1.8	0.9	0.0
82.5°	32.3	18.4	10.1	7.4	6.5	3.7	2.8	0.9	0.9	0.9	0.0
85°	16.6	11.1	8.3	7.4	6.5	3.7	2.8	0.9	0.0	0.9	0.9
87.5°	9.2	8.3	8.3	7.4	6.5	4.6	2.8	0.9	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)