

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: P452701

Luminaire Tested: **GALN-SA3C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12467 lumens
Efficiency: N/A
Efficacy: 77.9 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): 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



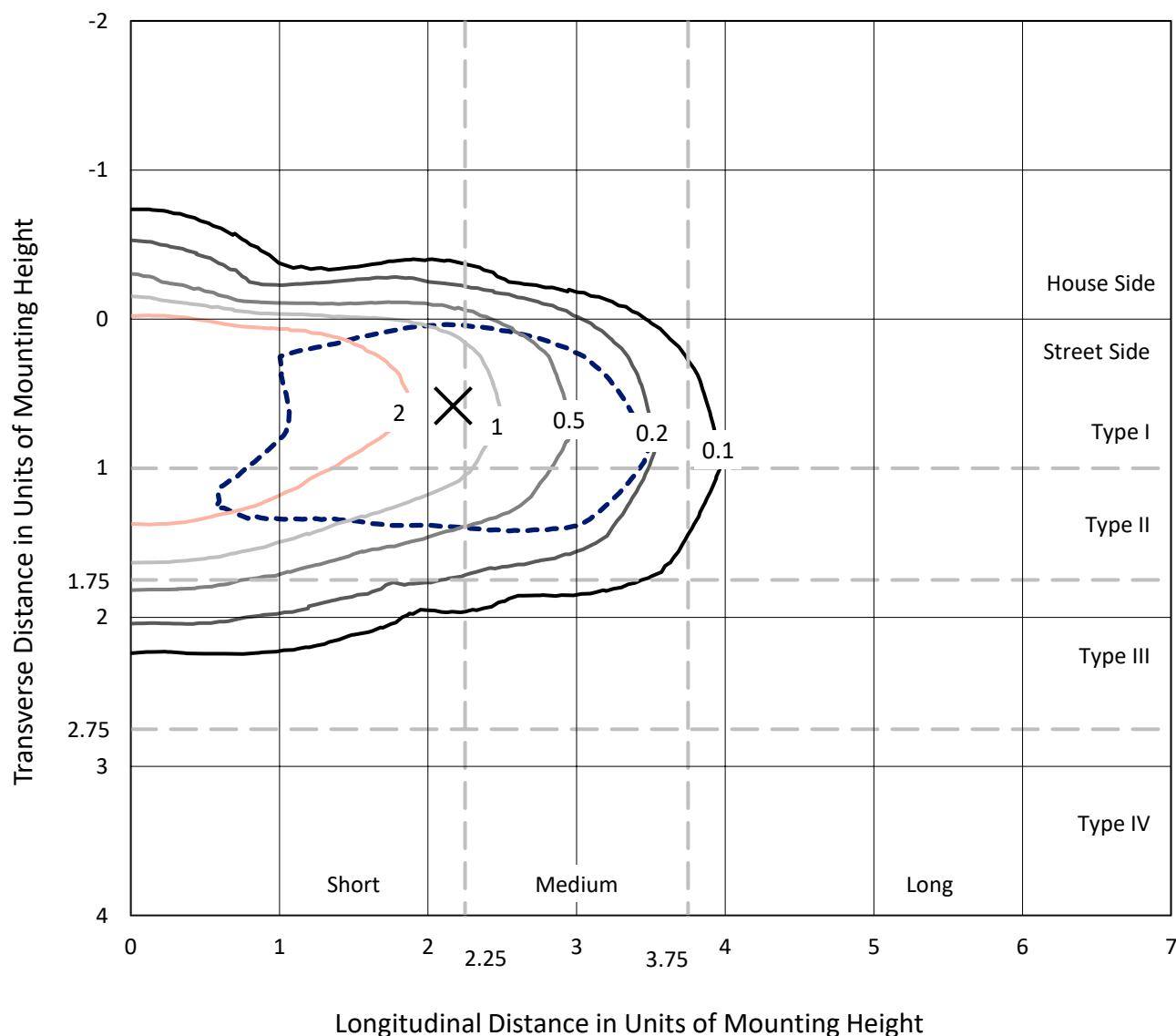
REPORT NUMBER: P452701

CATALOG NUMBER: GALN-SA3C-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



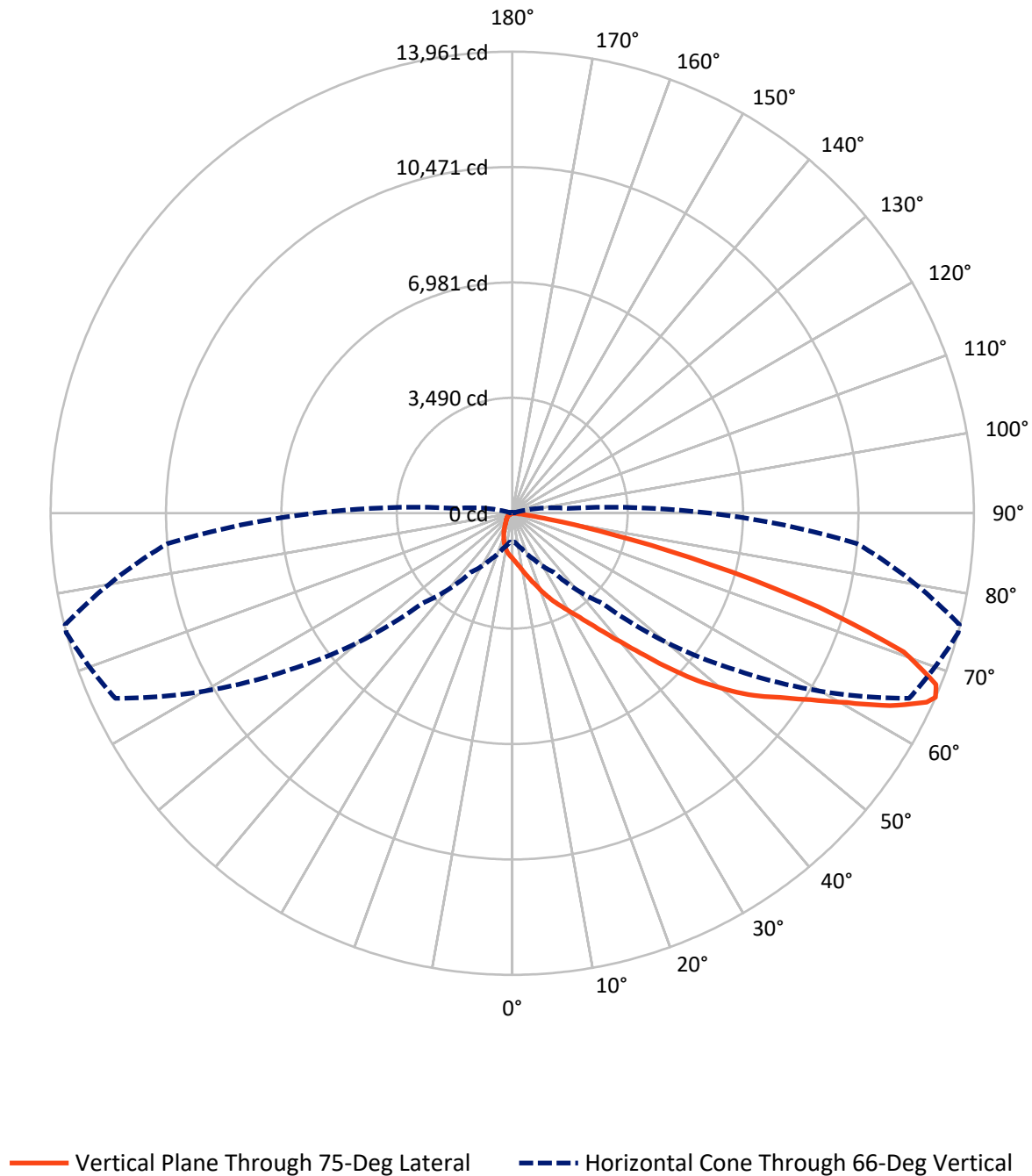
Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type II - Short - N/A

REPORT NUMBER: P452701

CATALOG NUMBER: GALN-SA3C-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P452701

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.7	0.0	769.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	11697.3	0.0	11697.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	12467.0	0.0	12467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	1.1
10°-20°	387.0	3.1
20°-30°	668.3	5.4
30°-40°	1205.5	9.7
40°-50°	2177.7	17.5
50°-60°	3395.0	27.2
60°-70°	3225.1	25.9
70°-80°	1208.7	9.7
80°-90°	68.2	0.5
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°	12467.0	100.0
0°-180°	12467.0	100.0



REPORT NUMBER: P452701

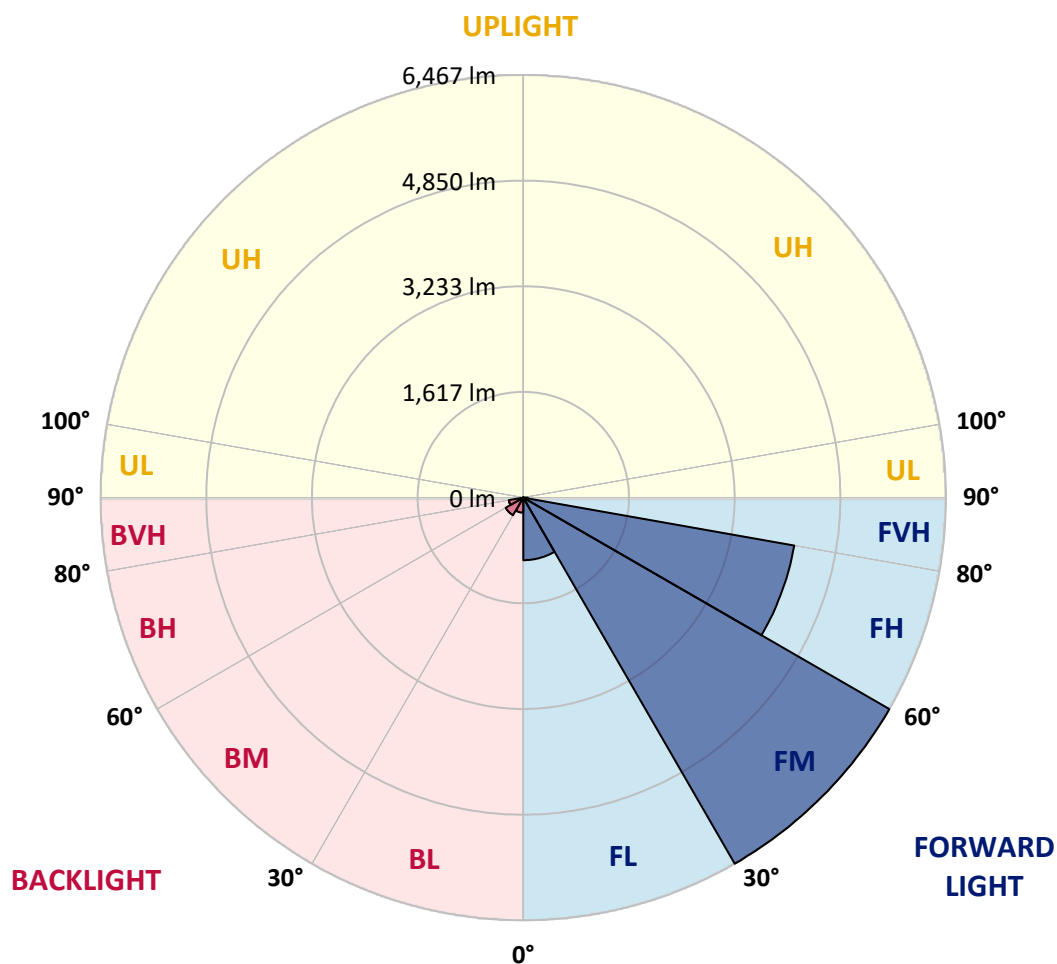
CATALOG NUMBER: GALN-SA3C-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.0	7.7			
FM	(30°-60°)	6466.6	51.9			
FH	(60°-80°)	4209.1	33.8			G2/5000
FVH	(80°-90°)	64.7	0.5			G1/100
BL	(0°-30°)	229.9	1.8	B1/500		
BM	(30°-60°)	311.5	2.5	B1/1000		
BH	(60°-80°)	224.7	1.8	B1/500		G1/500
BVH	(80°-90°)	3.5	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



REPORT NUMBER: P452701

CATALOG NUMBER: GALN-SA3C-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4
2.5°	1628.9	1608.6	1615.0	1605.8	1584.6	1553.3	1525.6	1486.0	1446.4	1439.9	1395.7
5°	1843.7	1838.1	1830.8	1804.0	1789.3	1741.3	1684.2	1616.0	1533.9	1519.2	1439.0
7.5°	1990.2	1987.5	1991.2	1977.3	1964.4	1921.1	1860.3	1767.2	1639.9	1631.6	1498.0
10°	2038.2	2045.5	2059.4	2081.5	2101.8	2087.9	2041.9	1925.7	1777.3	1753.3	1565.3
12.5°	2010.5	2018.8	2052.0	2111.0	2176.4	2214.2	2195.8	2111.0	1922.9	1903.6	1640.9
15°	1939.5	1949.7	1996.7	2087.9	2205.0	2312.0	2358.0	2297.2	2092.6	2061.2	1732.1
17.5°	1834.4	1849.2	1916.5	2037.2	2197.6	2382.0	2512.0	2491.7	2273.2	2243.7	1831.7
20°	1755.2	1766.2	1823.4	1961.7	2166.3	2420.7	2658.6	2715.7	2496.3	2445.6	1948.8
22.5°	1807.7	1811.4	1830.8	1913.7	2110.1	2430.9	2787.6	2948.9	2733.2	2688.1	2070.4
25°	2064.9	2028.0	2008.7	1990.2	2098.1	2421.7	2904.7	3192.3	2969.2	2921.3	2191.2
27.5°	2470.5	2453.9	2356.2	2225.3	2200.4	2433.6	2982.1	3422.8	3191.4	3139.8	2309.2
30°	2912.1	2883.5	2823.6	2631.8	2439.2	2518.4	3038.4	3646.8	3454.1	3385.9	2417.0
32.5°	3317.7	3336.1	3246.7	3049.4	2826.3	2699.1	3111.2	3891.1	3755.5	3670.7	2542.4
35°	3790.6	3827.4	3690.1	3501.1	3240.2	3025.5	3253.1	4166.7	4138.1	4031.2	2736.0
37.5°	4270.8	4293.0	4209.1	3943.6	3708.5	3440.3	3520.5	4506.8	4609.2	4517.9	2967.4
40°	4674.6	4705.0	4643.3	4407.3	4156.5	3920.6	3908.6	4877.4	5169.6	5075.6	3312.1
42.5°	4983.4	5006.5	5008.3	4841.5	4615.6	4508.7	4403.6	5350.3	5872.1	5763.3	3712.2
45°	5373.4	5406.5	5387.2	5273.8	5105.1	5085.7	5031.4	5921.8	6712.8	6575.4	4231.2
47.5°	5976.2	5998.4	5950.4	5816.8	5645.3	5675.7	5643.5	6562.5	7570.1	7452.1	4768.6
50°	6394.7	6431.6	6499.8	6553.3	6428.9	6316.4	6220.5	7160.8	8384.1	8278.1	5318.0
52.5°	6390.1	6451.0	6666.7	6935.9	7207.8	7173.7	6898.1	7821.7	9161.2	9030.3	5834.3
55°	5959.6	6077.6	6394.7	6872.3	7625.4	8000.6	7875.2	8586.9	9832.3	9743.8	6432.5
57.5°	5071.0	5142.9	5583.5	6250.9	7392.2	8389.6	9007.2	9623.9	10637.0	10595.5	7361.8
60°	3410.8	3443.0	4010.0	4835.0	6293.3	8001.5	9836.9	10878.5	11628.0	11607.7	8446.7
62.5°	1954.3	1968.1	2379.2	3075.2	4478.3	6781.0	9906.9	12426.3	12816.2	12827.3	9702.3
65°	1051.8	1059.2	1391.0	1804.9	2724.9	4833.2	8908.6	13274.4	13776.8	13798.0	10480.3
66°	908.0	873.0	1107.1	1538.5	2168.1	3846.8	8277.1	13244.0	13961.1	13938.1	10452.7
67.5°	690.5	721.8	884.0	1182.7	1606.8	2735.1	6833.5	12654.9	13821.0	13749.1	10027.7
70°	494.1	507.0	629.6	843.5	1094.2	1500.7	4366.7	10510.7	12561.8	12465.0	8736.2
72.5°	319.0	332.8	446.2	610.3	790.9	819.5	2444.7	7594.1	9684.8	9670.9	6579.1
75°	227.7	240.6	295.0	436.9	594.6	507.0	1177.2	5118.0	6156.9	6115.4	4069.9
77.5°	165.0	171.5	197.3	285.8	425.0	363.2	545.7	2733.2	3065.1	3209.8	1798.5
80°	94.9	100.5	137.4	174.2	287.6	248.0	260.9	1097.0	1131.1	1076.7	562.3
82.5°	47.0	53.5	82.0	118.9	179.8	166.9	119.8	330.0	348.5	339.2	142.0
85°	11.1	13.8	46.1	78.4	87.6	74.7	58.1	96.8	119.8	117.1	54.4
87.5°	0.9	1.8	16.6	13.8	14.7	24.9	20.3	24.9	38.7	36.0	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P452701

CATALOG NUMBER: GALN-SA3C-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4	1363.4
2.5°	1375.4	1357.9	1307.2	1257.4	1215.9	1172.6	1132.9	1109.9	1100.7	1090.5	1095.1
5°	1394.7	1352.3	1250.0	1161.5	1074.9	1001.1	942.1	904.3	885.9	883.1	878.5
7.5°	1420.5	1347.7	1189.2	1050.9	937.5	855.5	788.2	733.8	717.2	702.4	690.5
10°	1451.9	1339.4	1113.6	934.7	814.0	710.7	622.2	557.7	524.5	515.3	521.8
12.5°	1485.1	1323.8	1034.3	827.8	688.6	556.8	474.7	442.5	433.3	429.6	430.5
15°	1518.3	1304.4	951.3	724.6	548.5	444.3	406.5	398.2	394.5	392.7	390.9
17.5°	1548.7	1273.1	858.2	624.1	444.3	379.8	366.0	358.6	351.2	348.5	343.8
20°	1584.6	1237.1	774.3	511.6	376.1	343.8	327.3	313.4	302.4	295.0	294.1
22.5°	1618.7	1191.0	686.8	424.0	342.9	308.8	282.1	267.3	254.4	245.2	248.0
25°	1637.2	1134.8	608.4	369.7	312.5	273.8	244.3	225.8	212.0	207.4	206.5
27.5°	1637.2	1065.6	531.9	338.3	284.8	242.4	212.0	194.5	185.3	178.8	179.8
30°	1624.3	989.1	460.9	314.3	260.9	214.8	186.2	170.5	163.2	158.6	157.6
32.5°	1614.1	916.3	400.1	291.3	236.0	190.8	165.9	153.9	146.6	142.0	142.0
35°	1629.8	853.6	353.1	268.3	212.9	172.4	150.3	139.2	131.8	128.1	127.2
37.5°	1671.3	796.5	317.1	243.4	191.7	156.7	139.2	126.3	118.9	114.3	112.5
40°	1773.6	764.2	290.4	220.3	171.5	143.8	126.3	114.3	105.1	100.5	99.6
42.5°	1937.7	765.1	264.6	199.1	155.8	132.7	115.2	101.4	91.3	86.7	85.7
45°	2184.7	800.2	244.3	178.8	142.0	120.8	103.2	88.5	79.3	74.7	74.7
47.5°	2480.7	868.4	226.8	161.3	129.1	109.7	91.3	76.5	67.3	63.6	63.6
50°	2801.4	956.9	209.3	142.9	118.0	97.7	78.4	66.4	59.0	56.2	56.2
52.5°	3128.7	1063.8	191.7	128.1	106.0	84.8	67.3	59.0	52.5	50.7	49.8
55°	3558.3	1200.2	173.3	112.5	93.1	72.8	59.9	51.6	44.2	41.5	40.6
57.5°	4219.2	1405.8	153.0	98.6	76.5	60.8	51.6	43.3	35.0	30.4	29.5
60°	5016.6	1656.5	131.8	86.7	61.8	49.8	41.5	33.2	25.8	20.3	19.4
62.5°	5763.3	1816.0	111.5	72.8	48.9	37.8	29.5	24.9	18.4	12.9	12.0
65°	6093.3	1762.5	92.2	59.0	38.7	26.7	19.4	17.5	11.1	5.5	4.6
66°	5983.6	1683.3	84.8	53.5	35.0	23.0	16.6	14.7	8.3	2.8	2.8
67.5°	5660.0	1496.1	73.7	46.1	30.4	18.4	12.9	11.1	4.6	0.9	0.0
70°	4849.8	1210.4	58.1	34.1	22.1	12.9	7.4	5.5	2.8	0.0	0.0
72.5°	3725.1	901.6	46.1	25.8	15.7	7.4	3.7	1.8	2.8	0.0	0.0
75°	2282.5	515.3	36.0	19.4	10.1	4.6	2.8	0.0	2.8	0.9	0.0
77.5°	1013.1	231.4	24.0	12.9	7.4	3.7	1.8	0.0	1.8	0.9	0.0
80°	256.3	75.6	13.8	9.2	5.5	2.8	0.9	0.0	1.8	1.8	0.9
82.5°	70.1	27.7	10.1	7.4	4.6	2.8	0.9	0.0	1.8	1.8	1.8
85°	27.7	12.9	9.2	7.4	5.5	2.8	0.9	0.0	1.8	1.8	1.8
87.5°	12.9	9.2	9.2	8.3	6.5	2.8	0.9	0.0	1.8	0.9	1.8
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)