

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: P454095

Luminaire Tested: **GALN-SA5A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454095
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-SA5A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 14570 lumens
Efficiency: N/A
Efficacy: 94.6 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): 154
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

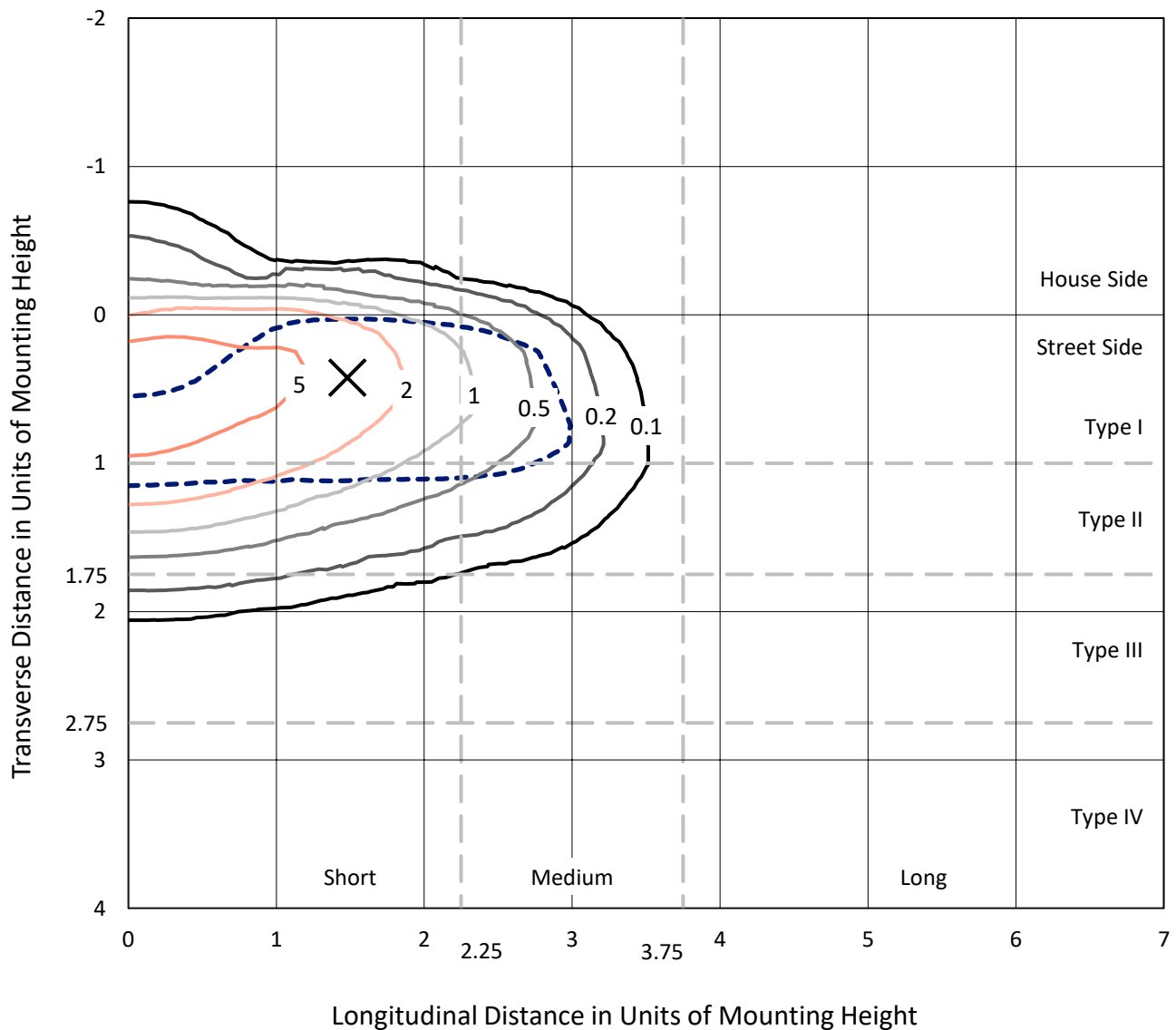


REPORT NUMBER: P454095

CATALOG NUMBER: GALN-SA5A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

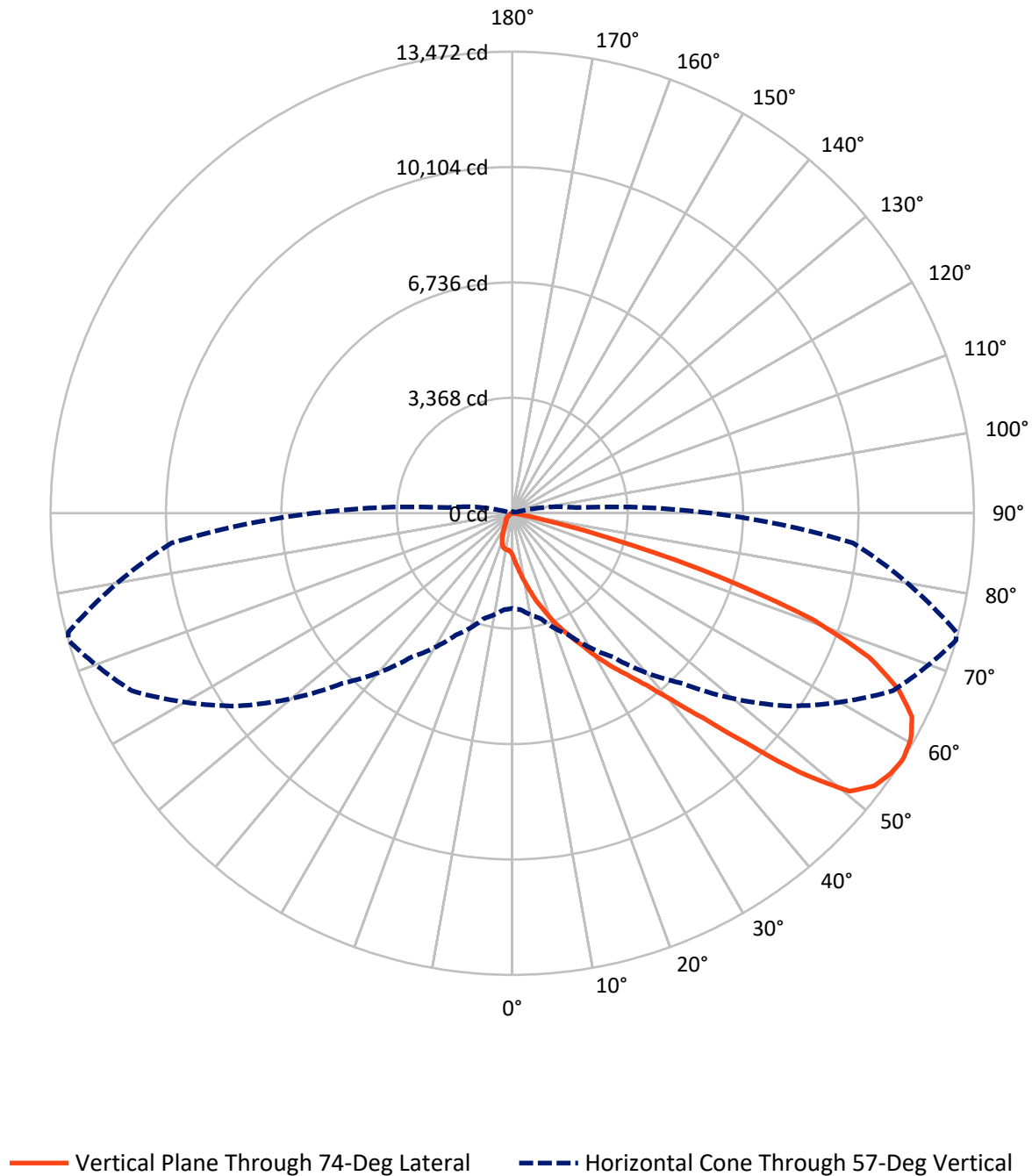
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Short - N/A

REPORT NUMBER: P454095
CATALOG NUMBER: GALN-SA5A-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454095

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.3	0.0	840.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	13729.7	0.0	13729.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	14570.0	0.0	14570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.0
10°-20°	580.5	4.0
20°-30°	1242.2	8.5
30°-40°	2283.1	15.7
40°-50°	3500.1	24.0
50°-60°	3702.6	25.4
60°-70°	2417.9	16.6
70°-80°	660.7	4.5
80°-90°	35.6	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°	14570.0	100.0
0°-180°	14570.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454095

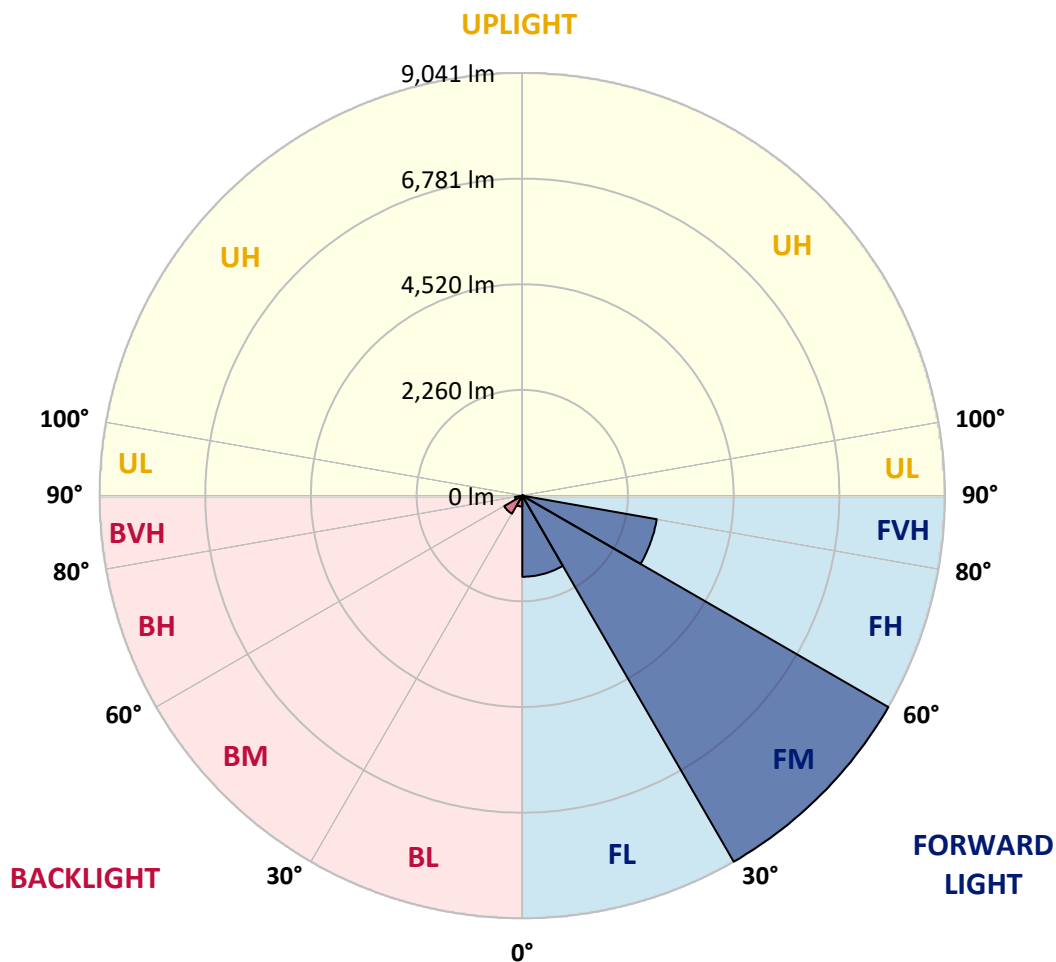
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1735.3	11.9			
FM	(30°-60°)	9041.0	62.1			
FH	(60°-80°)	2920.8	20.0			G2/5000
FVH	(80°-90°)	32.6	0.2			G1/100
BL	(0°-30°)	234.7	1.6	B1/500		
BM	(30°-60°)	444.9	3.1	B1/1000		
BH	(60°-80°)	157.8	1.1	B1/500		G1/500
BVH	(80°-90°)	2.9	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: P454095

CATALOG NUMBER: GALN-SA5A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2
2.5°	1785.6	1769.5	1737.3	1726.2	1678.9	1605.5	1541.1	1454.6	1386.2	1379.2	1296.7
5°	2391.1	2354.9	2339.8	2267.4	2153.7	2047.1	1864.0	1725.2	1565.3	1553.2	1387.2
7.5°	2974.6	2924.3	2909.2	2840.8	2708.0	2540.0	2302.6	2050.1	1796.6	1773.5	1508.9
10°	3397.1	3404.1	3377.0	3331.7	3224.1	3053.1	2760.3	2415.3	2054.2	2025.0	1645.7
12.5°	3699.9	3698.9	3703.9	3702.9	3645.6	3515.8	3208.0	2810.6	2337.8	2280.5	1802.7
15°	3897.1	3900.1	3915.2	3967.5	3973.5	3893.0	3636.5	3188.9	2666.8	2595.4	1972.7
17.5°	4096.2	4117.4	4141.5	4190.8	4235.1	4202.9	4021.8	3583.2	2964.5	2911.2	2154.7
20°	4425.2	4454.4	4440.3	4470.4	4493.6	4496.6	4356.8	3947.4	3325.7	3236.1	2363.0
22.5°	4951.3	4950.3	4914.1	4859.7	4814.5	4812.5	4685.7	4321.6	3653.6	3567.1	2572.2
25°	5616.2	5619.2	5548.8	5393.9	5281.2	5143.4	4997.6	4649.5	4004.7	3898.1	2792.5
27.5°	6378.7	6359.6	6253.0	6039.7	5816.4	5581.0	5370.8	5030.8	4376.9	4288.4	3045.0
30°	7063.8	7056.7	6932.0	6671.5	6377.7	6141.3	5836.5	5508.6	4858.7	4750.1	3327.7
32.5°	7701.6	7711.6	7538.6	7269.0	6985.3	6712.7	6390.8	5965.3	5331.5	5177.6	3635.5
35°	8199.5	8209.6	8030.5	7806.2	7514.5	7288.1	6981.3	6452.2	5798.3	5668.5	3989.6
37.5°	8465.1	8478.2	8374.5	8205.5	8023.5	7909.8	7624.1	7078.9	6365.7	6287.2	4408.1
40°	8515.4	8530.5	8485.2	8439.9	8429.9	8511.4	8427.9	7817.2	7152.3	7029.6	5031.8
42.5°	8364.5	8384.6	8404.7	8505.3	8710.5	9009.3	9300.0	8819.2	8165.3	8000.3	5794.3
45°	7968.1	7966.1	8045.6	8306.1	8765.9	9403.6	10211.4	10073.6	9545.5	9349.3	6871.7
47.5°	7290.1	7280.1	7452.1	7823.3	8539.5	9476.1	10954.8	11596.6	11306.9	11125.8	8029.5
50°	6257.0	6306.3	6576.9	7095.0	7977.2	9256.8	11184.2	12595.5	12752.4	12560.3	8965.0
52.5°	5046.9	5044.8	5469.4	6172.5	7144.3	8773.9	11024.2	12776.6	13222.2	13075.4	9425.8
55°	3735.1	3761.3	4202.9	4912.1	6062.9	7892.7	10502.1	12590.5	13401.3	13297.7	9729.6
57°	2778.4	2824.7	3178.8	3929.2	5121.3	7020.5	9807.0	12257.5	13471.7	13415.4	9982.1
57.5°	2593.3	2595.4	2940.4	3622.4	4845.7	6685.6	9607.8	12118.7	13469.7	13438.5	10023.3
60°	1596.4	1646.7	1885.2	2448.5	3547.0	5217.9	8272.9	11321.0	13365.1	13410.3	10199.3
62.5°	955.7	976.8	1131.7	1475.7	2286.5	3808.5	6770.1	10299.9	13092.5	13230.3	10187.3
65°	614.6	619.7	690.1	893.3	1429.5	2574.2	5216.9	8951.0	12387.3	12640.8	9788.9
67.5°	474.8	482.9	511.0	586.5	828.9	1603.5	3689.8	7511.4	11246.5	11573.5	8823.2
70°	421.5	425.5	435.6	459.7	548.2	905.4	2295.6	5867.7	9326.2	9418.7	6904.8
72.5°	344.0	355.1	386.3	394.3	434.6	565.3	1277.6	3938.3	6266.1	6289.2	3862.9
75°	266.6	268.6	314.9	338.0	366.2	389.3	570.4	1985.7	3009.8	2848.9	1488.8
77.5°	199.2	208.2	229.4	258.5	298.8	278.6	255.5	748.4	934.5	917.4	432.6
80°	127.8	132.8	159.9	194.1	232.4	182.1	143.9	219.3	205.2	211.2	103.6
82.5°	64.4	65.4	102.6	157.9	147.9	91.5	90.5	89.5	76.5	75.4	48.3
85°	7.0	15.1	66.4	90.5	66.4	30.2	42.2	41.2	40.2	41.2	28.2
87.5°	1.0	1.0	11.1	13.1	9.1	10.1	12.1	13.1	16.1	15.1	12.1
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: P454095

CATALOG NUMBER: GALN-SA5A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2	1220.2
2.5°	1256.4	1216.2	1141.8	1070.3	1017.0	982.8	938.6	922.5	899.3	896.3	885.2
5°	1310.8	1234.3	1104.5	1001.9	919.4	857.1	802.7	757.5	721.3	713.2	717.2
7.5°	1388.2	1274.5	1093.5	953.6	839.0	732.3	645.8	592.5	554.3	540.2	542.2
10°	1475.7	1327.9	1091.5	902.3	727.3	596.5	502.0	454.7	432.6	424.5	415.5
12.5°	1579.3	1389.2	1086.4	822.9	604.6	475.8	408.4	380.2	359.1	353.1	353.1
15°	1696.0	1454.6	1062.3	724.3	490.9	393.3	348.1	325.9	318.9	312.9	312.9
17.5°	1817.8	1519.0	1012.0	602.6	407.4	337.0	308.8	295.7	285.7	278.6	278.6
20°	1956.6	1582.4	931.5	494.9	344.0	300.8	278.6	263.6	255.5	249.5	247.5
22.5°	2088.4	1633.7	828.9	406.4	299.8	270.6	250.5	234.4	226.3	223.3	223.3
25°	2225.2	1664.8	705.2	336.0	273.6	245.5	223.3	210.2	203.2	201.2	200.2
27.5°	2357.9	1683.0	596.5	293.7	249.5	222.3	201.2	191.1	184.1	182.1	183.1
30°	2518.9	1686.0	490.9	263.6	228.4	200.2	181.1	172.0	168.0	166.0	165.0
32.5°	2681.9	1682.0	412.4	245.5	208.2	181.1	165.0	157.9	154.9	151.9	151.9
35°	2864.9	1660.8	351.1	227.3	189.1	165.0	150.9	144.9	140.8	137.8	136.8
37.5°	3092.3	1649.8	315.9	207.2	172.0	149.9	136.8	130.8	127.8	123.7	122.7
40°	3450.4	1699.1	304.8	189.1	154.9	135.8	123.7	116.7	112.7	108.6	107.6
42.5°	3897.1	1785.6	286.7	171.0	139.8	122.7	110.7	102.6	95.6	90.5	88.5
45°	4475.5	1899.2	258.5	151.9	126.7	108.6	97.6	87.5	78.5	74.4	73.4
47.5°	5082.1	2008.9	233.4	136.8	112.7	96.6	84.5	73.4	65.4	62.4	61.4
50°	5454.3	2031.0	217.3	119.7	98.6	83.5	71.4	61.4	56.3	53.3	53.3
52.5°	5624.3	1995.8	195.2	104.6	85.5	73.4	61.4	53.3	50.3	48.3	47.3
55°	5743.0	1941.5	166.0	90.5	73.4	62.4	54.3	48.3	44.3	42.2	41.2
57°	5812.4	1868.1	143.9	79.5	63.4	54.3	48.3	43.3	39.2	35.2	35.2
57.5°	5815.4	1839.9	137.8	78.5	60.4	52.3	47.3	42.2	37.2	33.2	32.2
60°	5725.9	1646.7	110.7	66.4	48.3	44.3	39.2	33.2	26.2	22.1	21.1
62.5°	5438.2	1401.3	91.5	56.3	39.2	34.2	28.2	25.1	18.1	13.1	13.1
65°	5002.6	1136.7	78.5	45.3	32.2	25.1	19.1	18.1	11.1	6.0	5.0
67.5°	4372.9	885.2	66.4	37.2	27.2	18.1	13.1	12.1	6.0	2.0	0.0
70°	3331.7	603.6	55.3	30.2	20.1	13.1	9.1	7.0	4.0	1.0	0.0
72.5°	1920.4	332.0	46.3	23.1	15.1	10.1	7.0	4.0	4.0	0.0	0.0
75°	686.1	142.8	35.2	17.1	12.1	8.0	5.0	2.0	3.0	1.0	0.0
77.5°	218.3	76.5	23.1	13.1	10.1	6.0	4.0	2.0	2.0	1.0	0.0
80°	64.4	40.2	14.1	11.1	7.0	5.0	3.0	1.0	2.0	1.0	0.0
82.5°	35.2	20.1	11.1	8.0	7.0	4.0	3.0	1.0	1.0	1.0	0.0
85°	18.1	12.1	9.1	8.0	7.0	4.0	3.0	1.0	0.0	1.0	1.0
87.5°	10.1	9.1	9.1	8.0	7.0	5.0	3.0	1.0	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)