

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: P454327

Luminaire Tested: **GALN-SA5B-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454327
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-SA5B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 18129 lumens
Efficiency: N/A
Efficacy: 88.9 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): 204
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

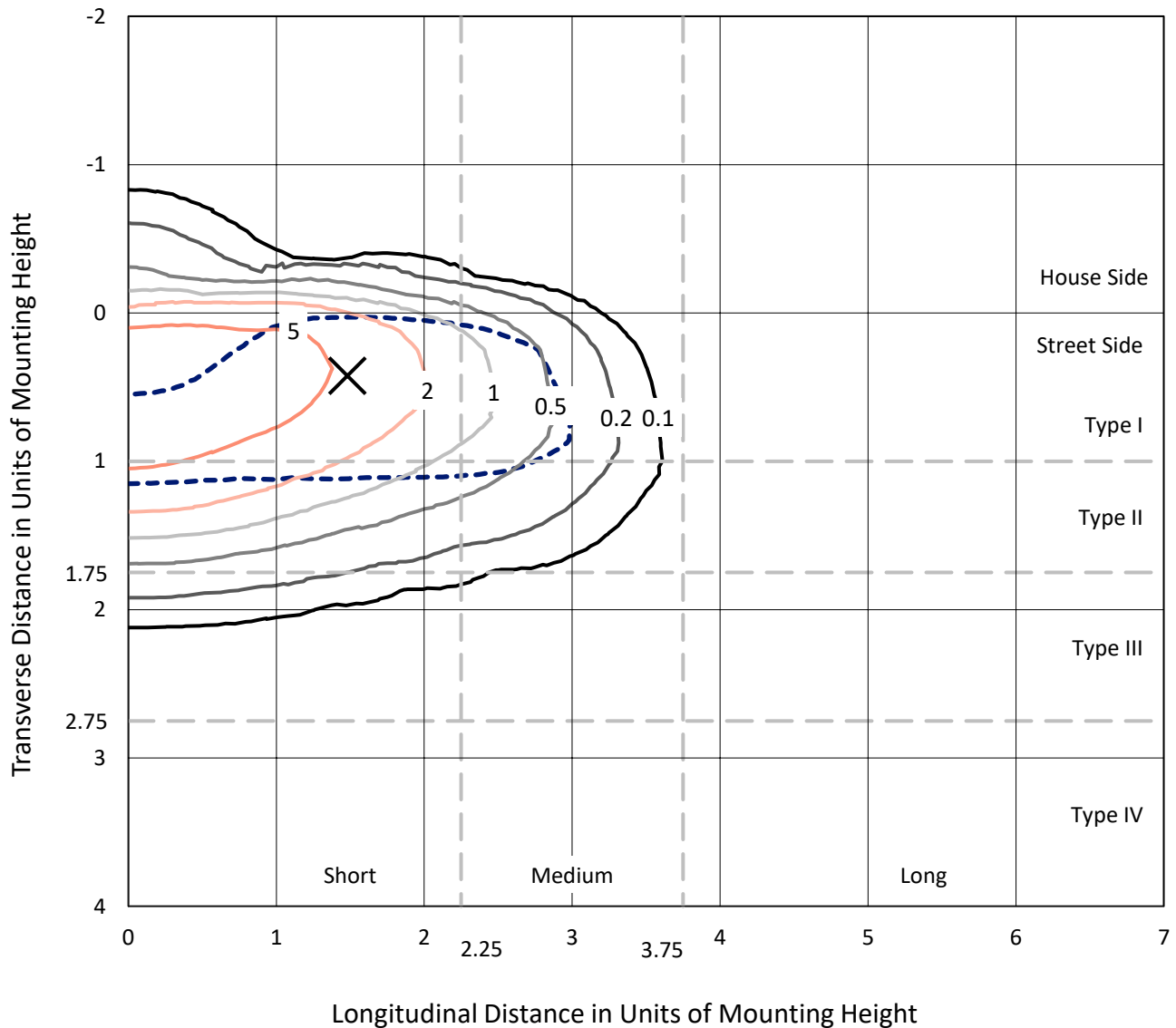


REPORT NUMBER: P454327

CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

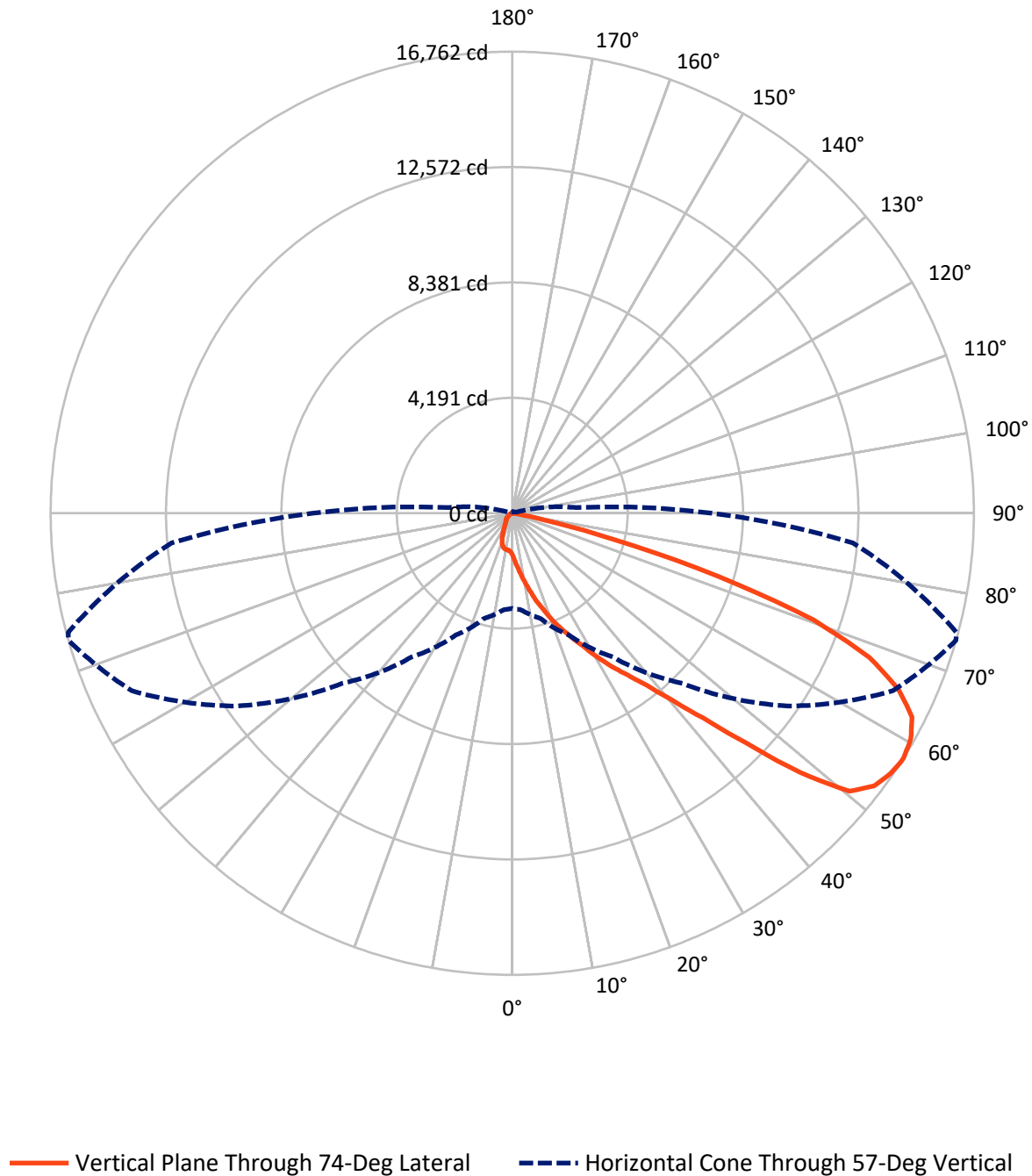


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

REPORT NUMBER: P454327

CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P454327

CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.6	0.0	1045.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17083.4	0.0	17083.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	18129.0	0.0	18129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	1.0
10°-20°	722.3	4.0
20°-30°	1545.6	8.5
30°-40°	2840.8	15.7
40°-50°	4355.1	24.0
50°-60°	4607.1	25.4
60°-70°	3008.5	16.6
70°-80°	822.0	4.5
80°-90°	44.3	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°	18129.0	100.0
0°-180°	18129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454327

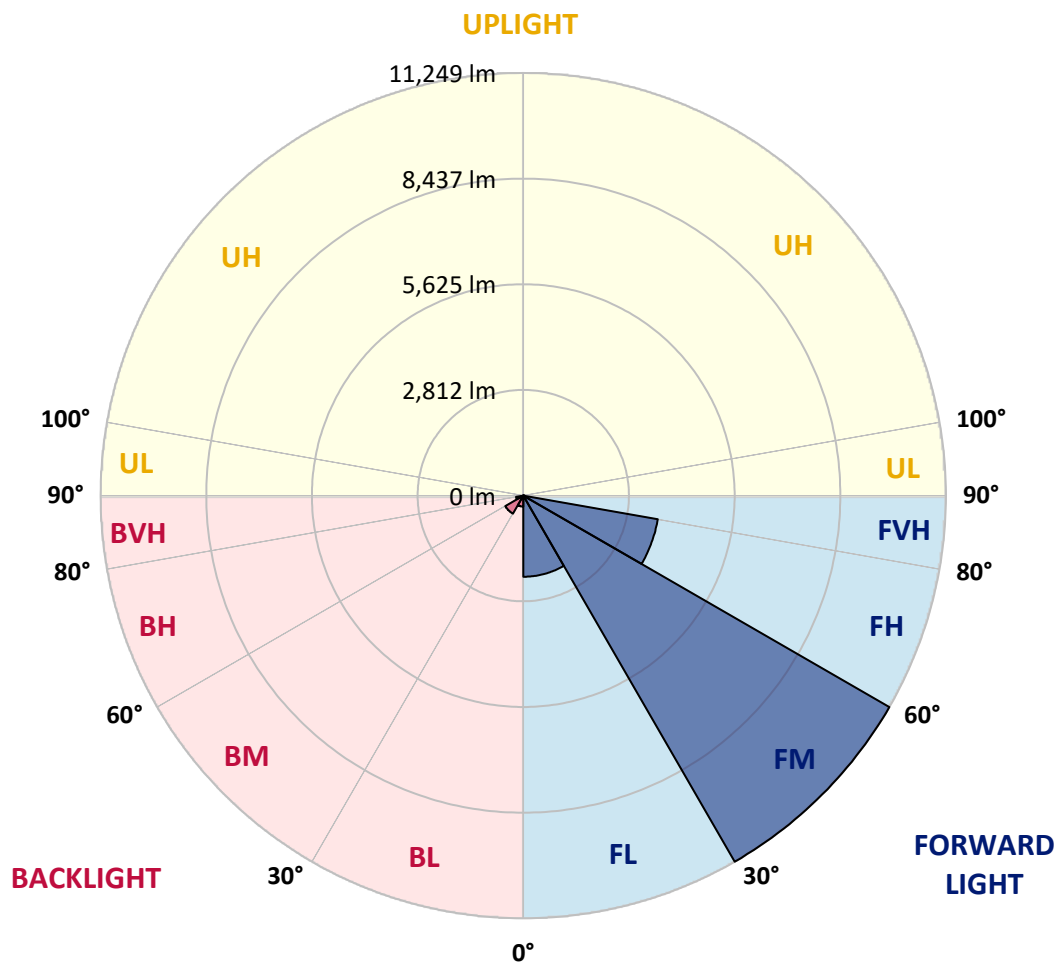
CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2159.1	11.9			
FM	(30°-60°)	11249.4	62.1			
FH	(60°-80°)	3634.3	20.0			G2/5000
FVH	(80°-90°)	40.6	0.2			G1/100
BL	(0°-30°)	292.1	1.6	B1/500		
BM	(30°-60°)	553.6	3.1	B1/1000		
BH	(60°-80°)	196.3	1.1	B1/500		G1/500
BVH	(80°-90°)	3.7	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





REPORT NUMBER: P454327

CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	2221.7	2201.7	2161.6	2147.9	2089.0	1997.7	1917.6	1809.9	1724.8	1716.0	1613.4
5°	2975.2	2930.2	2911.4	2821.3	2679.8	2547.2	2319.4	2146.6	1947.6	1932.6	1726.1
7.5°	3701.2	3638.6	3619.8	3534.7	3369.5	3160.5	2865.1	2550.9	2235.5	2206.7	1877.5
10°	4226.9	4235.7	4201.9	4145.5	4011.6	3798.8	3434.6	3005.3	2555.9	2519.6	2047.7
12.5°	4603.7	4602.4	4608.7	4607.4	4536.1	4374.6	3991.6	3497.2	2908.9	2837.5	2243.0
15°	4849.0	4852.7	4871.5	4936.6	4944.1	4844.0	4524.8	3967.8	3318.2	3229.3	2454.5
17.5°	5096.8	5123.1	5153.1	5214.5	5269.5	5229.5	5004.2	4458.5	3688.7	3622.3	2681.1
20°	5506.1	5542.4	5524.9	5562.4	5591.2	5595.0	5421.0	4911.6	4138.0	4026.6	2940.2
22.5°	6160.7	6159.5	6114.4	6046.8	5990.5	5988.0	5830.3	5377.2	4546.1	4438.4	3200.5
25°	6988.1	6991.8	6904.2	6711.5	6571.3	6399.8	6218.3	5785.2	4982.9	4850.2	3474.6
27.5°	7936.9	7913.1	7780.4	7515.0	7237.2	6944.3	6682.7	6259.6	5446.0	5335.9	3788.8
30°	8789.3	8780.5	8625.3	8301.1	7935.6	7641.5	7262.2	6854.2	6045.6	5910.4	4140.5
32.5°	9582.8	9595.3	9380.0	9044.6	8691.6	8352.4	7951.9	7422.4	6633.9	6442.4	4523.5
35°	10202.4	10214.9	9992.1	9713.0	9350.0	9068.4	8686.6	8028.2	7214.6	7053.2	4964.1
37.5°	10532.8	10549.1	10420.2	10209.9	9983.3	9841.9	9486.4	8808.0	7920.6	7823.0	5484.8
40°	10595.4	10614.2	10557.9	10501.5	10489.0	10590.4	10486.5	9726.8	8899.4	8746.7	6260.9
42.5°	10407.7	10432.7	10457.7	10582.9	10838.2	11210.0	11571.7	10973.4	10159.8	9954.6	7209.6
45°	9914.5	9912.0	10010.9	10335.1	10907.1	11700.6	12705.7	12534.3	11877.1	11633.1	8550.2
47.5°	9070.9	9058.4	9272.4	9734.3	10625.5	11790.8	13630.7	14429.3	14068.8	13843.5	9990.9
50°	7785.4	7846.7	8183.4	8828.1	9925.8	11517.9	13916.1	15672.2	15867.5	15628.4	11154.9
52.5°	6279.6	6277.1	6805.3	7680.3	8889.4	10917.1	13717.1	15897.5	16452.0	16269.3	11728.2
55°	4647.5	4680.0	5229.5	6111.9	7543.8	9820.6	13067.5	15665.9	16674.8	16545.9	12106.2
57°	3457.1	3514.7	3955.3	4889.0	6372.3	8735.4	12202.6	15251.6	16762.4	16692.3	12420.4
57.5°	3226.8	3229.3	3658.6	4507.3	6029.3	8318.6	11954.7	15078.9	16759.9	16721.1	12471.7
60°	1986.4	2049.0	2345.6	3046.6	4413.4	6492.4	10293.8	14086.3	16629.7	16686.1	12690.7
62.5°	1189.1	1215.4	1408.1	1836.2	2845.1	4738.8	8423.8	12815.9	16290.5	16462.0	12675.7
65°	764.8	771.0	858.6	1111.5	1778.6	3203.0	6491.2	11137.4	15413.1	15728.5	12180.0
67.5°	590.8	600.8	635.9	729.7	1031.4	1995.2	4591.1	9346.2	13993.7	14400.5	10978.4
70°	524.5	529.5	542.0	572.0	682.2	1126.5	2856.3	7301.0	11604.3	11719.4	8591.5
72.5°	428.1	441.8	480.6	490.7	540.7	703.4	1589.6	4900.3	7796.7	7825.5	4806.4
75°	331.7	334.2	391.8	420.6	455.6	484.4	709.7	2470.8	3745.0	3544.7	1852.5
77.5°	247.8	259.1	285.4	321.7	371.7	346.7	317.9	931.2	1162.8	1141.5	538.2
80°	159.0	165.2	199.0	241.6	289.1	226.6	179.0	272.9	255.3	262.9	128.9
82.5°	80.1	81.4	127.7	196.5	184.0	113.9	112.7	111.4	95.1	93.9	60.1
85°	8.8	18.8	82.6	112.7	82.6	37.6	52.6	51.3	50.1	51.3	35.0
87.5°	1.3	1.3	13.8	16.3	11.3	12.5	15.0	16.3	20.0	18.8	15.0
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: P454327

CATALOG NUMBER: GALN-SA5B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3	1518.3
2.5°	1563.3	1513.3	1420.6	1331.8	1265.4	1222.9	1167.8	1147.8	1119.0	1115.2	1101.5
5°	1630.9	1535.8	1374.3	1246.7	1144.0	1066.4	998.8	942.5	897.5	887.4	892.4
7.5°	1727.3	1585.9	1360.6	1186.6	1043.9	911.2	803.6	737.2	689.7	672.1	674.7
10°	1836.2	1652.2	1358.1	1122.8	905.0	742.2	624.6	565.8	538.2	528.2	516.9
12.5°	1965.1	1728.6	1351.8	1023.9	752.3	592.0	508.2	473.1	446.8	439.3	439.3
15°	2110.3	1809.9	1321.8	901.2	610.8	489.4	433.1	405.5	396.8	389.3	389.3
17.5°	2261.8	1890.0	1259.2	749.8	506.9	419.3	384.3	368.0	355.5	346.7	346.7
20°	2434.5	1968.9	1159.0	615.8	428.1	374.3	346.7	327.9	317.9	310.4	307.9
22.5°	2598.5	2032.7	1031.4	505.7	373.0	336.7	311.7	291.6	281.6	277.9	277.9
25°	2768.7	2071.5	877.4	418.1	340.5	305.4	277.9	261.6	252.8	250.3	249.1
27.5°	2933.9	2094.1	742.2	365.5	310.4	276.6	250.3	237.8	229.1	226.6	227.8
30°	3134.2	2097.8	610.8	327.9	284.1	249.1	225.3	214.0	209.0	206.5	205.3
32.5°	3337.0	2092.8	513.2	305.4	259.1	225.3	205.3	196.5	192.8	189.0	189.0
35°	3564.8	2066.5	436.8	282.9	235.3	205.3	187.8	180.2	175.2	171.5	170.2
37.5°	3847.6	2052.7	393.0	257.8	214.0	186.5	170.2	162.7	159.0	154.0	152.7
40°	4293.2	2114.1	379.3	235.3	192.8	169.0	154.0	145.2	140.2	135.2	133.9
42.5°	4849.0	2221.7	356.7	212.8	174.0	152.7	137.7	127.7	118.9	112.7	110.1
45°	5568.7	2363.2	321.7	189.0	157.7	135.2	121.4	108.9	97.6	92.6	91.4
47.5°	6323.5	2499.6	290.4	170.2	140.2	120.2	105.1	91.4	81.4	77.6	76.4
50°	6786.6	2527.1	270.4	148.9	122.7	103.9	88.9	76.4	70.1	66.3	66.3
52.5°	6998.1	2483.3	242.8	130.2	106.4	91.4	76.4	66.3	62.6	60.1	58.8
55°	7145.8	2415.7	206.5	112.7	91.4	77.6	67.6	60.1	55.1	52.6	51.3
57°	7232.2	2324.4	179.0	98.9	78.9	67.6	60.1	53.8	48.8	43.8	43.8
57.5°	7235.9	2289.3	171.5	97.6	75.1	65.1	58.8	52.6	46.3	41.3	40.1
60°	7124.5	2049.0	137.7	82.6	60.1	55.1	48.8	41.3	32.5	27.5	26.3
62.5°	6766.5	1743.6	113.9	70.1	48.8	42.6	35.0	31.3	22.5	16.3	16.3
65°	6224.6	1414.4	97.6	56.3	40.1	31.3	23.8	22.5	13.8	7.5	6.3
67.5°	5441.0	1101.5	82.6	46.3	33.8	22.5	16.3	15.0	7.5	2.5	0.0
70°	4145.5	751.0	68.8	37.6	25.0	16.3	11.3	8.8	5.0	1.3	0.0
72.5°	2389.4	413.1	57.6	28.8	18.8	12.5	8.8	5.0	5.0	0.0	0.0
75°	853.6	177.7	43.8	21.3	15.0	10.0	6.3	2.5	3.8	1.3	0.0
77.5°	271.6	95.1	28.8	16.3	12.5	7.5	5.0	2.5	2.5	1.3	0.0
80°	80.1	50.1	17.5	13.8	8.8	6.3	3.8	1.3	2.5	1.3	0.0
82.5°	43.8	25.0	13.8	10.0	8.8	5.0	3.8	1.3	1.3	1.3	0.0
85°	22.5	15.0	11.3	10.0	8.8	5.0	3.8	1.3	0.0	1.3	1.3
87.5°	12.5	11.3	11.3	10.0	8.8	6.3	3.8	1.3	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)