

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: P530453

Luminaire Tested: **GALN-SA5C-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16707 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

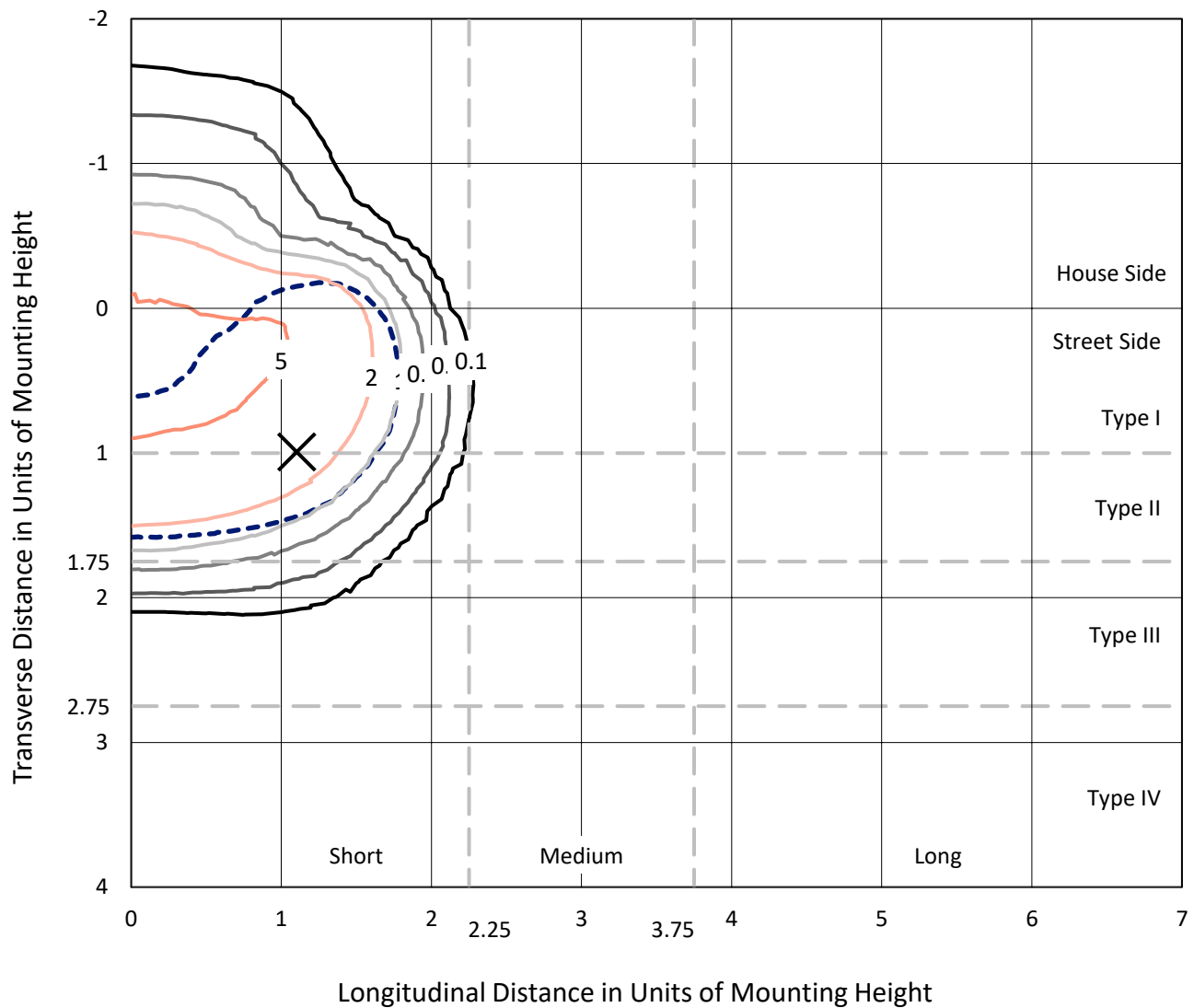
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530453
 CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

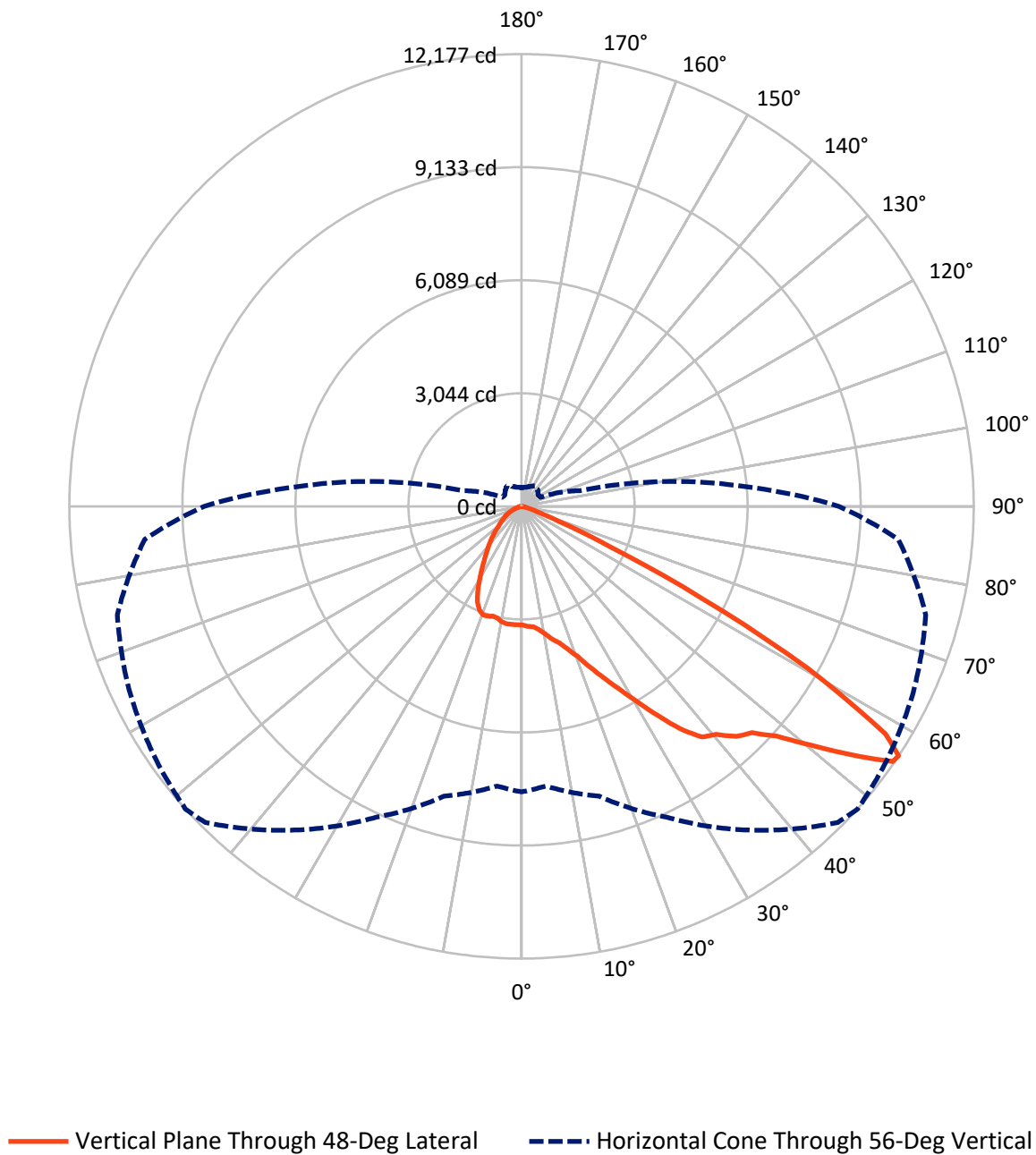
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P530453
CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3633.4	0.0	3633.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13073.5	0.0	13073.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	16707.0	0.0	16707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	1.9
10°-20°	993.4	5.9
20°-30°	1801.8	10.8
30°-40°	2830.3	16.9
40°-50°	4128.9	24.7
50°-60°	4974.5	29.8
60°-70°	1456.5	8.7
70°-80°	184.8	1.1
80°-90°	25.9	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°	16707.0	100.0
0°-180°	16707.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530453

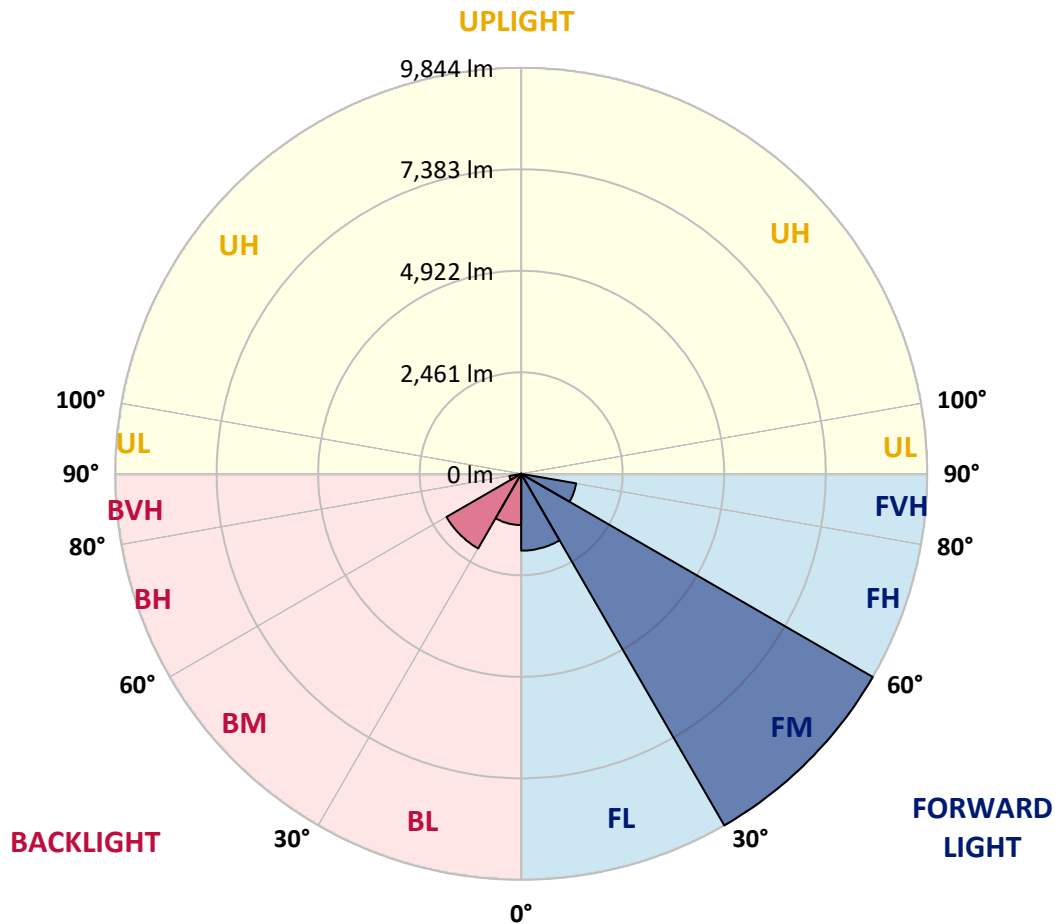
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1864.2	11.2			
FM	(30°-60°)	9843.8	58.9			
FH	(60°-80°)	1352.6	8.1			G1/1800
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	1241.9	7.4	B3/2500		
BM	(30°-60°)	2089.9	12.5	B2/2500		
BH	(60°-80°)	288.7	1.7	B1/500		G1/500
BVH	(80°-90°)	12.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



REPORT NUMBER: P530453

CATALOG NUMBER: GALN-SA5C-830-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0
2.5°	3248.8	3233.6	3233.6	3209.3	3236.7	3224.5	3233.6	3203.2	3233.6	3188.0	3224.5
5°	3264.1	3267.1	3254.9	3270.1	3270.1	3288.4	3258.0	3285.3	3300.6	3267.1	3251.9
7.5°	3343.1	3349.2	3346.2	3334.0	3358.4	3355.3	3352.3	3331.0	3337.1	3324.9	3306.6
10°	3498.3	3495.2	3510.5	3480.0	3461.8	3483.1	3489.2	3455.7	3431.4	3422.2	3364.4
12.5°	3723.4	3686.9	3665.6	3635.2	3644.3	3613.9	3668.6	3610.8	3598.7	3543.9	3486.1
15°	3905.9	3899.8	3902.9	3854.2	3799.4	3811.6	3811.6	3781.2	3762.9	3696.0	3613.9
17.5°	4280.1	4152.3	4179.7	4118.9	4073.2	4070.2	4042.8	4048.9	4000.2	3860.3	3735.6
20°	4572.1	4517.4	4474.8	4371.3	4301.4	4322.7	4310.5	4280.1	4264.9	4082.3	3905.9
22.5°	4833.7	4852.0	4782.0	4754.6	4657.3	4666.4	4690.7	4663.4	4547.8	4359.2	4097.6
25°	5201.8	5180.5	5086.2	5052.7	4961.5	4994.9	5089.2	5068.0	4994.9	4654.2	4246.6
27.5°	5636.8	5563.8	5582.0	5429.9	5341.7	5436.0	5548.6	5655.1	5448.2	5001.0	4423.0
30°	5944.0	5868.0	5861.9	5855.8	5834.5	5944.0	6074.8	6172.2	6004.9	5347.8	4715.1
32.5°	6096.1	6114.4	6166.1	6147.9	6333.4	6558.5	6695.4	6835.3	6625.4	5913.6	5101.4
35°	6500.7	6385.1	6500.7	6512.9	6704.5	7182.1	7355.5	7690.1	7638.4	6713.7	5572.9
37.5°	6738.0	6728.9	6744.1	6859.7	7045.2	7635.4	7881.8	8140.4	8043.0	7194.3	6160.0
40°	7130.4	7154.8	7151.7	7239.9	7443.7	7976.1	8076.5	8286.4	8295.5	7860.5	7023.9
42.5°	7760.1	7662.8	7598.9	7690.1	7976.1	8271.2	8471.9	8429.3	8730.5	8669.7	8134.3
45°	8325.9	8383.7	8289.4	8441.5	8544.9	8703.1	8697.0	8788.3	9171.6	9460.6	8970.8
47.5°	8855.2	8891.7	8937.4	9040.8	9265.9	9290.2	9238.5	9199.0	9728.3	10026.4	9618.8
50°	9171.6	9205.1	9418.0	9603.6	10023.3	10078.1	10108.5	10008.1	10367.1	10400.6	10230.2
52.5°	9086.4	9122.9	9421.0	10032.5	10701.7	11203.6	11112.4	10942.0	10920.7	11051.5	10796.0
55°	8332.0	8298.5	8709.2	9661.4	10914.6	12119.3	12131.4	11952.0	11608.2	11520.0	10710.8
56°	7690.1	7559.3	8082.6	9232.4	10640.9	12040.2	12177.1	11985.4	11663.0	11267.5	10184.6
57.5°	6300.0	6424.7	6944.9	7897.0	9694.8	11471.3	11550.4	11504.8	11261.4	10598.3	8961.7
60°	3473.9	3693.0	4152.3	5317.4	6902.3	8803.5	8867.4	9238.5	9284.1	8116.0	6166.1
62.5°	1475.4	1451.0	1928.6	2786.5	3930.2	5314.4	5433.0	5813.2	5883.2	4678.6	3093.7
65°	599.3	632.7	873.1	1402.4	2077.7	2421.4	2588.7	2713.5	2944.6	1931.7	1140.7
67.5°	395.5	392.4	514.1	800.0	1119.5	1079.9	1079.9	1140.7	1055.6	787.9	492.8
70°	282.9	292.0	368.1	553.6	696.6	517.1	495.8	474.5	538.4	520.2	398.5
72.5°	185.6	197.7	246.4	331.6	362.0	282.9	282.9	340.7	444.1	419.8	325.5
75°	121.7	124.7	152.1	191.6	179.5	146.0	161.2	228.1	322.5	310.3	231.2
77.5°	82.1	85.2	103.4	124.7	100.4	82.1	88.2	115.6	158.2	158.2	121.7
80°	30.4	33.5	42.6	39.5	45.6	57.8	63.9	79.1	94.3	94.3	82.1
82.5°	0.0	3.0	9.1	21.3	33.5	45.6	51.7	60.8	70.0	79.1	76.0
85°	0.0	3.0	9.1	15.2	24.3	27.4	30.4	21.3	18.3	18.3	15.2
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.1	3.0	3.0
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°	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0	3191.0
2.5°	3191.0	3188.0	3188.0	3178.9	3197.1	3188.0	3194.1	3191.0	3151.5	3181.9	3160.6
5°	3224.5	3245.8	3212.3	3206.3	3181.9	3191.0	3191.0	3160.6	3188.0	3185.0	3178.9
7.5°	3309.7	3273.2	3236.7	3200.2	3194.1	3185.0	3151.5	3139.3	3160.6	3136.3	3172.8
10°	3346.2	3352.3	3297.5	3248.8	3203.2	3139.3	3093.7	3066.3	3032.9	3069.4	3090.7
12.5°	3513.5	3452.7	3358.4	3282.3	3127.2	3063.3	3017.7	3005.5	3063.3	3075.4	3054.2
15°	3571.3	3562.2	3440.5	3270.1	3108.9	3032.9	3042.0	3017.7	3023.7	2993.3	2999.4
17.5°	3689.9	3586.5	3443.5	3230.6	3105.9	3087.6	3032.9	2935.5	2880.8	2856.4	2877.7
20°	3820.7	3720.3	3513.5	3245.8	3133.2	3084.6	2905.1	2786.5	2673.9	2613.1	2616.1
22.5°	3936.3	3811.6	3483.1	3251.9	3157.6	2956.8	2740.8	2506.6	2366.7	2272.4	2275.4
25°	4076.3	3899.8	3495.2	3264.1	3093.7	2753.0	2442.7	2214.6	2047.3	1983.4	2004.7
27.5°	4155.4	3954.6	3562.2	3291.4	2926.4	2464.0	2129.4	1916.5	1819.1	1788.7	1785.6
30°	4392.6	4076.3	3644.3	3236.7	2646.5	2153.7	1843.4	1712.6	1618.3	1591.0	1597.0
32.5°	4745.5	4298.3	3750.8	3093.7	2360.6	1876.9	1657.9	1560.5	1472.3	1420.6	1414.5
35°	5040.6	4678.6	3863.3	2871.6	2029.0	1664.0	1527.1	1405.4	1271.6	1213.8	1198.5
37.5°	5603.3	5107.5	3839.0	2537.0	1712.6	1505.8	1387.1	1238.1	1122.5	1043.4	1034.3
40°	6351.7	5609.4	3720.3	2129.4	1478.4	1365.9	1238.1	1095.1	952.1	885.2	879.1
42.5°	7261.2	6223.9	3504.4	1715.7	1244.2	1225.9	1110.3	946.1	818.3	769.6	772.7
45°	8000.4	6750.2	3285.3	1378.0	1070.8	1089.0	988.6	833.5	745.3	705.7	705.7
47.5°	8657.5	7106.1	3048.1	1137.7	909.6	952.1	863.9	772.7	696.6	666.2	660.1
50°	9290.2	7468.1	2810.8	921.7	775.7	818.3	809.2	736.2	675.3	638.8	641.9
52.5°	9685.7	7525.9	2509.6	754.4	678.4	727.0	757.5	690.5	623.6	602.3	596.2
55°	9202.0	6780.6	1946.9	620.6	574.9	638.8	696.6	620.6	568.9	532.3	529.3
56°	8551.0	6062.7	1627.5	571.9	544.5	614.5	675.3	593.2	535.4	514.1	498.9
57.5°	7239.9	4961.5	1201.6	508.0	505.0	571.9	641.9	565.8	498.9	480.6	480.6
60°	4514.3	2792.5	727.0	425.9	438.0	508.0	578.0	505.0	444.1	444.1	453.3
62.5°	2056.4	1162.0	441.1	362.0	377.2	438.0	514.1	456.3	422.8	456.3	462.4
65°	699.7	501.9	319.4	289.0	298.1	362.0	441.1	462.4	459.3	480.6	492.8
67.5°	392.4	322.5	267.7	240.3	234.2	267.7	362.0	462.4	444.1	435.0	441.1
70°	331.6	273.8	237.3	212.9	203.8	216.0	279.9	349.8	313.3	304.2	298.1
72.5°	267.7	228.1	206.9	191.6	164.3	139.9	127.8	133.8	149.1	158.2	173.4
75°	188.6	173.4	173.4	155.1	118.6	88.2	70.0	57.8	39.5	27.4	30.4
77.5°	106.5	106.5	109.5	94.3	76.0	57.8	42.6	30.4	15.2	6.1	3.0
80°	73.0	79.1	85.2	76.0	63.9	51.7	36.5	21.3	9.1	0.0	0.0
82.5°	73.0	82.1	88.2	76.0	63.9	48.7	36.5	21.3	9.1	3.0	0.0
85°	15.2	18.3	21.3	24.3	36.5	36.5	27.4	18.3	9.1	3.0	0.0
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	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)