

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: P529519

Luminaire Tested: **GALN-SA4C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13441 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 213
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

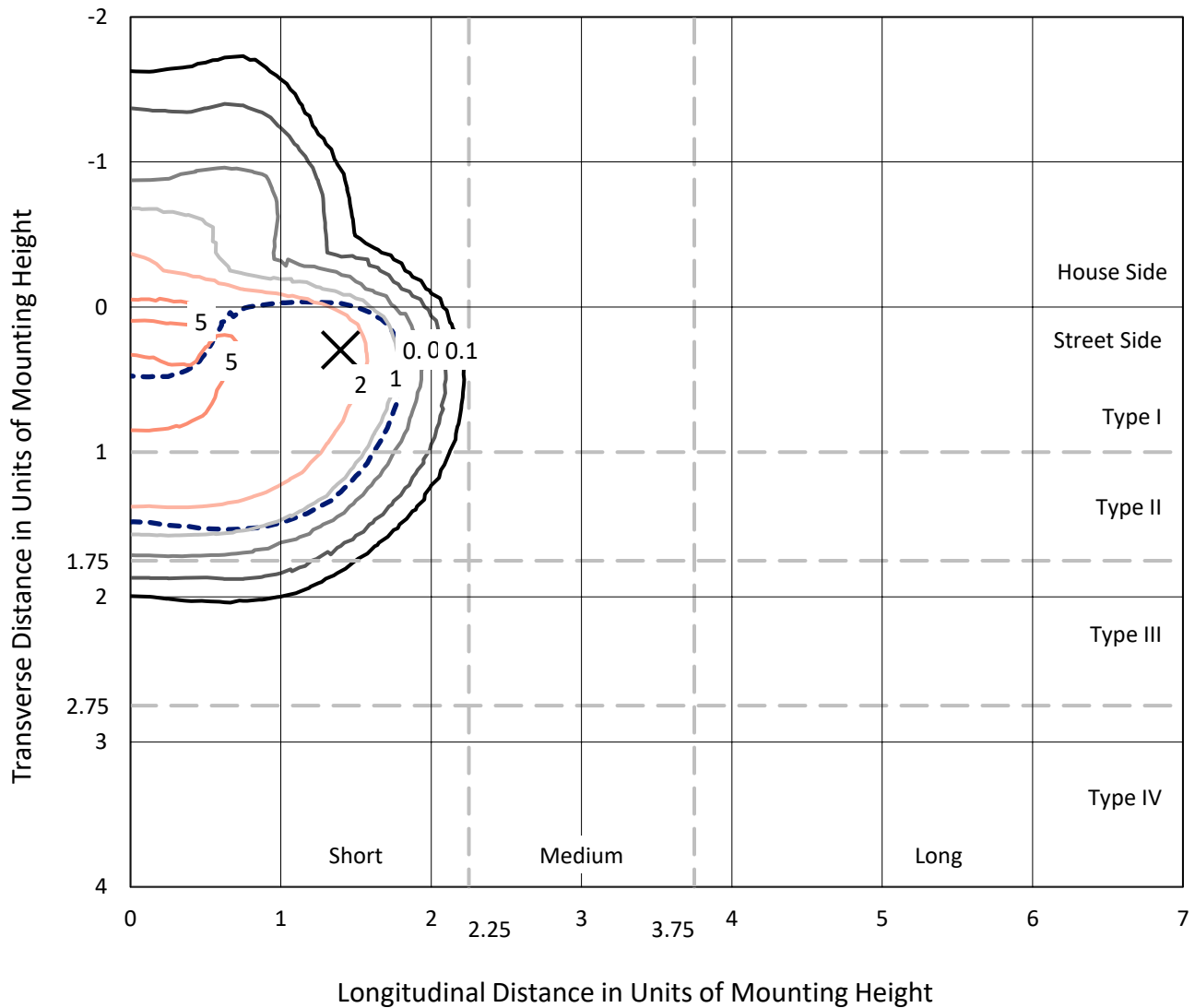


REPORT NUMBER: P529519

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

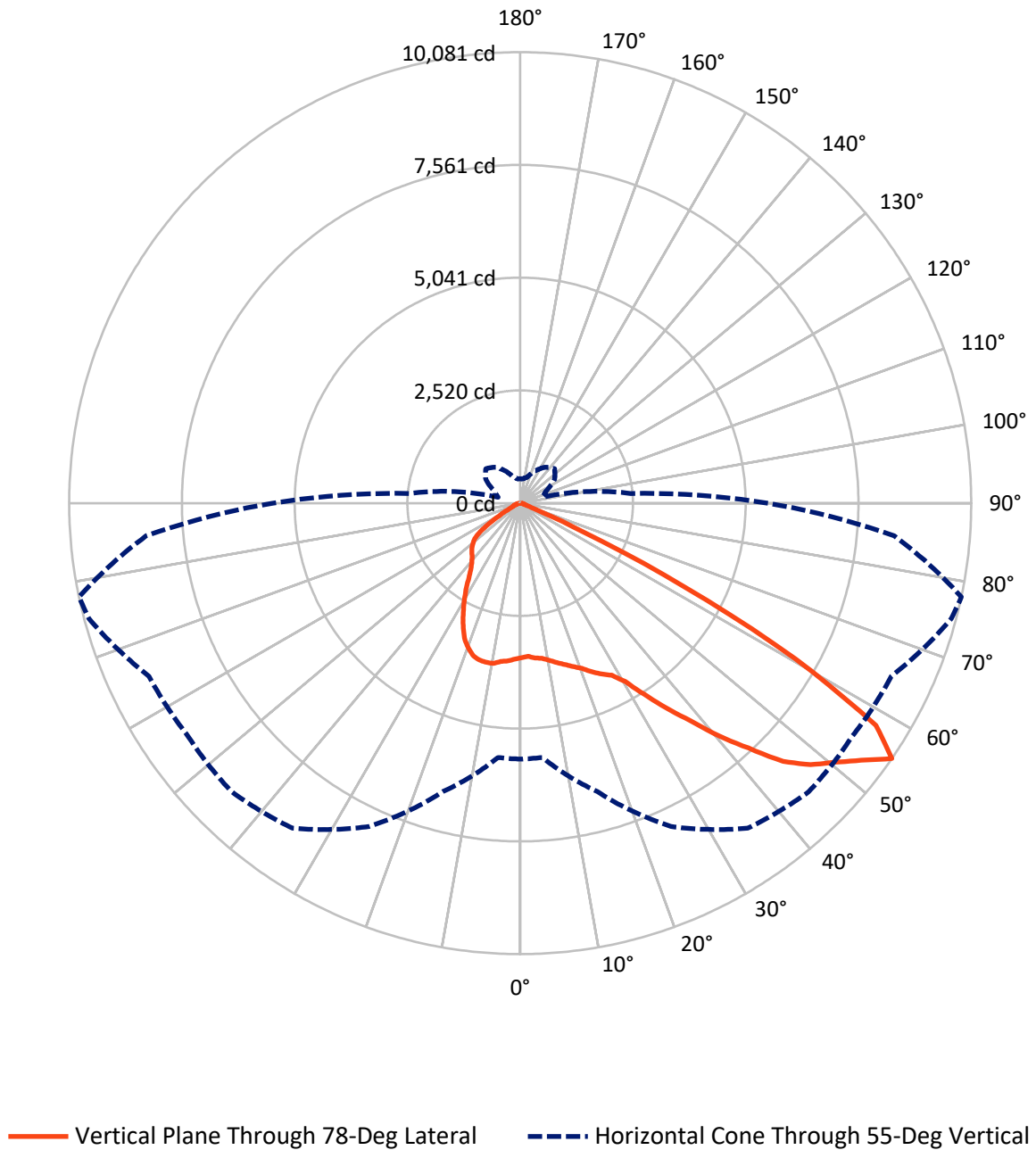


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529519

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P529519

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2496.5	0.0	2496.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10944.5	0.0	10944.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	13441.0	0.0	13441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.1	2.3
10°-20°	815.5	6.1
20°-30°	1429.4	10.6
30°-40°	2356.9	17.5
40°-50°	3429.6	25.5
50°-60°	3886.1	28.9
60°-70°	1111.1	8.3
70°-80°	86.3	0.6
80°-90°	17.9	0.1
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°	13441.0	100.0
0°-180°	13441.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529519

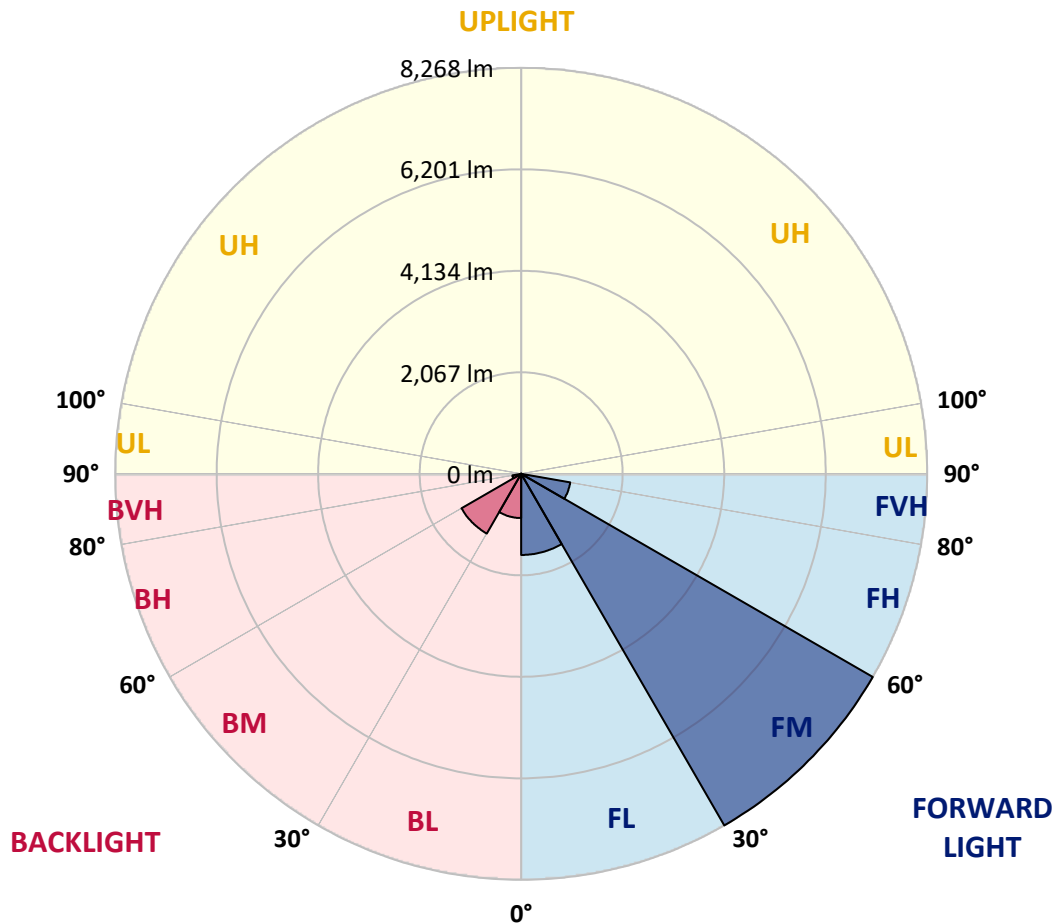
CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1652.3	12.3			
FM	(30°-60°)	8268.3	61.5			
FH	(60°-80°)	1015.1	7.6			G1/1800
FVH	(80°-90°)	8.7	0.1			G0/10
BL	(0°-30°)	900.8	6.7	B2/1000		
BM	(30°-60°)	1404.3	10.4	B2/2500		
BH	(60°-80°)	182.2	1.4	B1/500		G1/500
BVH	(80°-90°)	9.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



REPORT NUMBER: P529519

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7
2.5°	3249.0	3280.3	3285.1	3323.5	3321.1	3386.0	3405.2	3407.6	3450.9	3429.3	3484.5
5°	3157.7	3140.9	3133.7	3201.0	3220.2	3277.9	3325.9	3354.8	3443.7	3474.9	3532.6
7.5°	3076.0	3076.0	3080.8	3140.9	3133.7	3208.2	3258.6	3347.5	3477.3	3503.8	3573.4
10°	2996.7	2967.9	3003.9	3066.4	3119.3	3152.9	3258.6	3342.7	3494.1	3571.0	3667.2
12.5°	2955.8	2970.3	2975.1	3020.7	3078.4	3179.3	3237.0	3376.4	3614.3	3660.0	3763.3
15°	3213.0	3184.1	3114.4	3073.6	3121.7	3169.7	3313.9	3455.7	3676.8	3741.7	3857.0
17.5°	3511.0	3486.9	3429.3	3318.7	3210.6	3299.5	3412.4	3542.2	3744.1	3840.2	4010.8
20°	3900.3	3861.8	3804.1	3587.9	3494.1	3398.0	3518.2	3672.0	3854.6	3941.1	4116.5
22.5°	4364.1	4364.1	4234.3	3972.4	3777.7	3686.4	3736.9	3825.8	3977.2	4094.9	4267.9
25°	4847.1	4832.7	4714.9	4443.4	4114.1	4006.0	4063.7	4126.2	4167.0	4231.9	4347.2
27.5°	5399.8	5315.7	5166.7	4866.3	4575.5	4366.5	4429.0	4373.7	4323.2	4356.9	4522.7
30°	5774.7	5827.6	5637.7	5349.3	5075.4	4842.3	4854.3	4806.2	4575.5	4623.6	4722.1
32.5°	6164.0	6197.7	6091.9	5933.3	5659.4	5387.8	5289.3	5248.4	5075.4	5097.0	5000.9
35°	6488.4	6553.3	6459.6	6389.9	6310.6	6091.9	5820.4	5952.5	5673.8	5620.9	5371.0
37.5°	6786.4	6767.2	6877.7	6805.6	6788.8	6635.0	6337.0	6363.5	6176.0	6164.0	5875.6
40°	7053.2	7058.0	7209.4	7243.0	7175.7	6901.8	6469.2	6678.3	6829.7	6844.1	6474.0
42.5°	7274.2	7339.1	7468.9	7740.5	7639.5	7182.9	6606.2	6834.5	7396.8	7485.7	7041.1
45°	7466.5	7598.7	7759.7	8002.4	7944.7	7581.8	6947.4	7156.5	8002.4	8235.5	7574.6
47.5°	7478.5	7651.5	7827.0	8187.4	8259.5	7795.7	7300.7	7666.0	8483.0	8735.3	7963.9
50°	7430.5	7521.8	7872.6	8264.3	8427.7	8144.2	7795.7	8093.7	8949.2	9107.8	8161.0
52.5°	6860.9	6930.6	7634.7	8336.4	8730.5	8538.3	8451.8	8689.7	9425.0	9542.8	8346.0
55°	5719.4	5707.4	6675.9	7973.6	8869.9	9122.2	9069.4	9153.5	9975.4	10081.1	8391.7
57.5°	3912.3	4131.0	4967.3	6639.8	8016.8	8985.3	9040.5	8901.2	9333.7	9374.6	7315.1
60°	2109.9	2201.3	2874.1	4431.4	6103.9	7322.3	7466.5	7214.2	7180.5	7065.2	5222.0
62.5°	838.7	884.3	1266.4	2194.1	3325.9	4450.6	4760.6	4657.2	4436.2	4133.4	2703.5
65°	398.9	427.8	629.6	1026.1	1475.5	1855.2	2165.2	2261.3	1667.8	1502.0	891.6
67.5°	271.6	293.2	459.0	586.4	526.3	550.3	716.1	665.7	391.7	334.0	247.5
70°	206.7	221.1	367.7	398.9	235.5	165.8	185.0	173.0	161.0	163.4	161.0
72.5°	146.6	158.6	269.1	235.5	103.3	76.9	98.5	117.8	117.8	117.8	115.3
75°	88.9	100.9	156.2	91.3	40.9	40.9	62.5	79.3	84.1	86.5	81.7
77.5°	45.7	57.7	52.9	26.4	26.4	31.2	45.7	55.3	60.1	60.1	57.7
80°	9.6	9.6	9.6	14.4	26.4	33.6	45.7	50.5	57.7	57.7	52.9
82.5°	0.0	2.4	7.2	14.4	24.0	31.2	43.3	50.5	57.7	60.1	55.3
85°	0.0	2.4	4.8	9.6	16.8	19.2	16.8	14.4	14.4	14.4	14.4
87.5°	0.0	0.0	2.4	2.4	2.4	4.8	4.8	4.8	4.8	4.8	4.8
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: P529519

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7	3455.7
2.5°	3489.3	3496.5	3484.5	3482.1	3472.5	3501.3	3431.7	3414.8	3458.1	3417.2	3426.9
5°	3535.0	3551.8	3530.2	3494.1	3441.3	3359.6	3289.9	3198.6	3155.3	3124.1	3119.3
7.5°	3568.6	3580.7	3559.0	3443.7	3285.1	3078.4	2924.6	2811.7	2722.7	2696.3	2653.0
10°	3705.6	3708.0	3599.9	3345.1	3035.1	2763.6	2528.1	2355.1	2266.1	2210.9	2186.8
12.5°	3796.9	3792.1	3573.4	3150.5	2737.2	2376.7	2107.5	1898.5	1816.8	1790.3	1773.5
15°	3912.3	3885.8	3511.0	2951.0	2352.7	1963.4	1720.6	1576.4	1569.2	1552.4	1569.2
17.5°	4003.6	3929.1	3419.6	2588.2	1985.0	1617.3	1458.7	1468.3	1487.5	1504.4	1506.8
20°	4152.6	3998.8	3210.6	2271.0	1643.7	1386.6	1384.2	1427.5	1475.5	1494.7	1514.0
22.5°	4265.5	4027.6	2987.1	1932.1	1365.0	1292.9	1333.7	1398.6	1434.7	1453.9	1482.7
25°	4306.4	3948.3	2689.1	1593.3	1230.4	1249.6	1312.1	1355.4	1401.0	1422.6	1410.6
27.5°	4347.2	3907.5	2333.4	1312.1	1158.3	1220.8	1273.7	1316.9	1331.3	1360.2	1379.4
30°	4445.8	3765.7	2013.8	1134.3	1122.3	1201.6	1240.0	1254.4	1292.9	1309.7	1309.7
32.5°	4525.1	3710.4	1675.0	1050.2	1117.5	1211.2	1216.0	1216.0	1220.8	1208.8	1204.0
35°	4688.5	3520.6	1372.2	999.7	1115.0	1213.6	1225.6	1184.7	1074.2	1030.9	1018.9
37.5°	4890.4	3398.0	1148.7	987.7	1131.9	1242.4	1261.6	1107.8	963.7	894.0	881.9
40°	5135.5	3311.5	1002.1	982.9	1170.3	1309.7	1252.0	1047.8	860.3	759.4	754.6
42.5°	5421.4	3232.2	903.6	980.5	1218.4	1379.4	1242.4	997.3	754.6	687.3	696.9
45°	5649.7	3188.9	836.3	963.7	1235.2	1420.2	1249.6	908.4	711.3	668.1	672.9
47.5°	5827.6	3097.6	781.0	934.8	1232.8	1434.7	1184.7	872.3	689.7	701.7	713.7
50°	5832.4	2975.1	711.3	872.3	1196.8	1408.2	1110.2	838.7	684.9	735.4	759.4
52.5°	5767.5	2802.0	636.8	783.4	1112.6	1316.9	1043.0	824.3	663.3	658.5	687.3
55°	5536.8	2477.6	511.9	634.4	939.6	1086.2	982.9	797.8	598.4	543.1	547.9
57.5°	4474.6	1775.9	377.3	454.2	665.7	795.4	886.8	785.8	538.3	461.4	463.8
60°	2770.8	1006.9	276.4	310.0	410.9	483.0	718.5	730.5	480.6	389.3	384.5
62.5°	1422.6	497.4	213.9	218.7	252.3	283.6	492.6	612.8	435.0	370.1	370.1
65°	475.8	245.1	187.4	168.2	168.2	175.4	298.0	425.4	367.7	310.0	310.0
67.5°	204.3	182.6	163.4	146.6	134.6	127.4	168.2	247.5	274.0	235.5	225.9
70°	158.6	153.8	141.8	122.6	105.7	96.1	98.5	127.4	156.2	151.4	146.6
72.5°	117.8	117.8	112.9	96.1	81.7	69.7	64.9	67.3	74.5	76.9	79.3
75°	81.7	84.1	84.1	74.5	60.1	50.5	43.3	36.0	28.8	24.0	21.6
77.5°	55.3	57.7	62.5	55.3	45.7	33.6	26.4	19.2	12.0	4.8	4.8
80°	48.1	55.3	60.1	55.3	48.1	36.0	26.4	14.4	7.2	0.0	0.0
82.5°	50.5	55.3	62.5	52.9	45.7	33.6	26.4	16.8	7.2	2.4	0.0
85°	12.0	12.0	14.4	16.8	21.6	24.0	19.2	12.0	7.2	2.4	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	2.4	2.4	2.4	2.4	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)