

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: P530687

Luminaire Tested: **GALN-SA5D-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530687
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-SA5D-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 18384 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

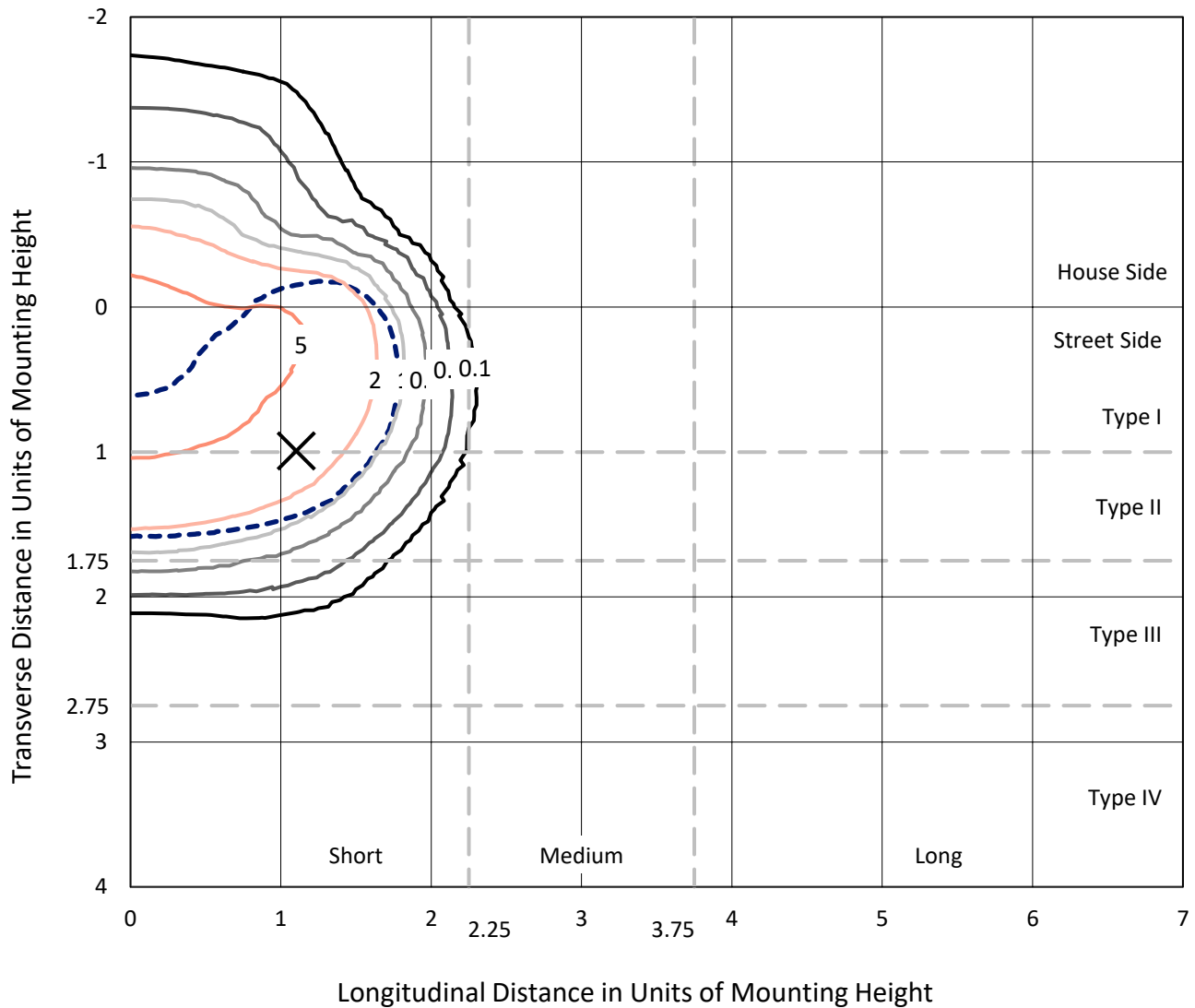
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

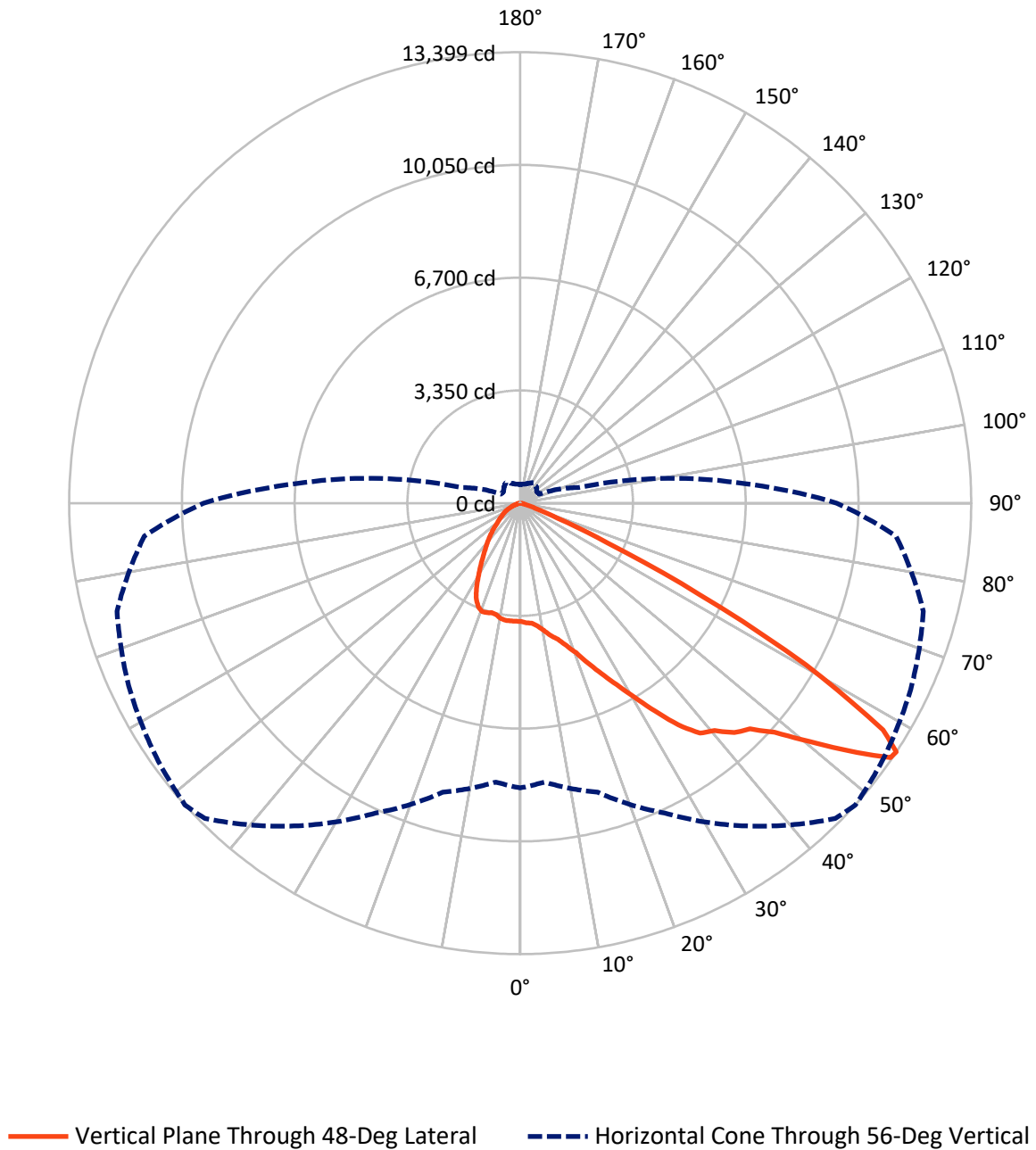
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3998.2	0.0	3998.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14385.8	0.0	14385.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	18384.0	0.0	18384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	1.9
10°-20°	1093.1	5.9
20°-30°	1982.7	10.8
30°-40°	3114.4	16.9
40°-50°	4543.4	24.7
50°-60°	5473.9	29.8
60°-70°	1602.7	8.7
70°-80°	203.3	1.1
80°-90°	28.5	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°	18384.0	100.0
0°-180°	18384.0	100.0

Coefficient of Utilization



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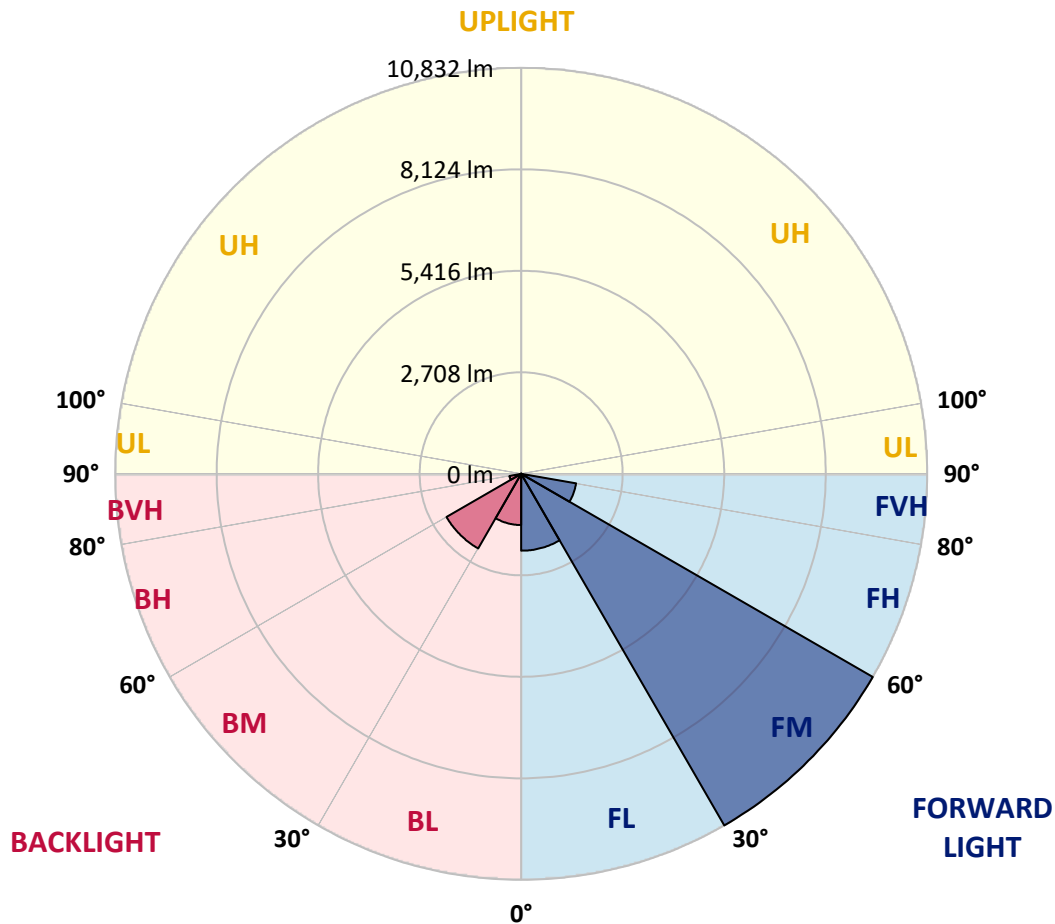
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2051.3	11.2			
FM	(30°-60°)	10831.9	58.9			
FH	(60°-80°)	1488.3	8.1			G1/1800
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	1366.6	7.4	B3/2500		
BM	(30°-60°)	2299.7	12.5	B2/2500		
BH	(60°-80°)	317.7	1.7	B1/500		G1/500
BVH	(80°-90°)	14.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4
2.5°	3575.0	3558.2	3558.2	3531.4	3561.6	3548.2	3558.2	3524.7	3558.2	3508.0	3548.2
5°	3591.7	3595.0	3581.6	3598.4	3598.4	3618.5	3585.0	3615.1	3631.9	3595.0	3578.3
7.5°	3678.7	3685.4	3682.1	3668.7	3695.5	3692.1	3688.8	3665.3	3672.0	3658.6	3638.6
10°	3849.4	3846.1	3862.8	3829.3	3809.3	3832.7	3839.4	3802.6	3775.8	3765.7	3702.1
12.5°	4097.1	4057.0	4033.5	4000.1	4010.1	3976.6	4036.9	3973.3	3959.9	3899.6	3836.0
15°	4298.0	4291.3	4294.6	4241.1	4180.8	4194.2	4194.2	4160.7	4140.7	4067.0	3976.6
17.5°	4709.7	4569.1	4599.2	4532.3	4482.1	4478.7	4448.6	4455.3	4401.7	4247.8	4110.5
20°	5031.0	4970.8	4923.9	4810.1	4733.1	4756.6	4743.2	4709.7	4693.0	4492.1	4298.0
22.5°	5318.9	5339.0	5262.0	5231.9	5124.8	5134.8	5161.6	5131.5	5004.3	4796.7	4508.9
25°	5723.9	5700.5	5596.7	5559.9	5459.5	5496.3	5600.1	5576.7	5496.3	5121.4	4672.9
27.5°	6202.6	6122.3	6142.4	5975.0	5877.9	5981.7	6105.5	6222.7	5995.1	5503.0	4867.0
30°	6540.7	6457.0	6450.3	6443.6	6420.2	6540.7	6684.6	6791.7	6607.6	5884.6	5188.4
32.5°	6708.1	6728.1	6785.0	6765.0	6969.1	7216.8	7367.5	7521.5	7290.5	6507.2	5613.5
35°	7153.2	7026.1	7153.2	7166.6	7377.5	7903.1	8093.9	8462.1	8405.2	7387.6	6132.3
37.5°	7414.3	7404.3	7421.0	7548.2	7752.4	8401.8	8672.9	8957.5	8850.3	7916.4	6778.3
40°	7846.1	7872.9	7869.6	7966.7	8190.9	8776.7	8887.2	9118.1	9128.2	8649.5	7729.0
42.5°	8539.0	8431.9	8361.6	8462.1	8776.7	9101.4	9322.3	9275.5	9606.8	9539.9	8950.8
45°	9161.6	9225.2	9121.5	9288.8	9402.7	9576.7	9570.0	9670.4	10092.2	10410.2	9871.3
47.5°	9744.1	9784.3	9834.5	9948.3	10196.0	10222.8	10165.8	10122.3	10704.8	11032.8	10584.3
50°	10092.2	10129.0	10363.3	10567.5	11029.5	11089.7	11123.2	11012.7	11407.7	11444.5	11257.1
52.5°	9998.5	10038.7	10366.7	11039.5	11775.9	12328.2	12227.8	12040.4	12016.9	12160.9	11879.7
55°	9168.3	9131.5	9583.4	10631.1	12010.2	13335.8	13349.2	13151.7	12773.4	12676.3	11786.0
56°	8462.1	8318.1	8893.9	10159.2	11709.0	13248.7	13399.4	13188.5	12833.7	12398.5	11206.9
57.5°	6932.3	7069.6	7642.0	8689.7	10667.9	12622.8	12709.8	12659.6	12391.8	11662.1	9861.2
60°	3822.7	4063.7	4569.1	5851.1	7595.1	9687.2	9757.5	10165.8	10216.1	8930.7	6785.0
62.5°	1623.5	1596.7	2122.2	3066.2	4324.8	5847.8	5978.3	6396.8	6473.7	5148.2	3404.2
65°	659.4	696.2	960.7	1543.1	2286.2	2664.5	2848.6	2985.8	3240.2	2125.6	1255.2
67.5°	435.2	431.8	565.7	880.3	1231.8	1188.3	1188.3	1255.2	1161.5	867.0	542.3
70°	311.3	321.3	405.0	609.2	766.5	569.0	545.6	522.2	592.5	572.4	438.5
72.5°	204.2	217.6	271.1	364.9	398.3	311.3	311.3	374.9	488.7	461.9	358.2
75°	133.9	137.2	167.4	210.9	197.5	160.7	177.4	251.0	354.8	341.4	254.4
77.5°	90.4	93.7	113.8	137.2	110.5	90.4	97.1	127.2	174.1	174.1	133.9
80°	33.5	36.8	46.9	43.5	50.2	63.6	70.3	87.0	103.8	103.8	90.4
82.5°	0.0	3.3	10.0	23.4	36.8	50.2	56.9	66.9	77.0	87.0	83.7
85°	0.0	3.3	10.0	16.7	26.8	30.1	33.5	23.4	20.1	20.1	16.7
87.5°	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	6.7	3.3	3.3
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°	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4	3511.4
2.5°	3511.4	3508.0	3508.0	3498.0	3518.0	3508.0	3514.7	3511.4	3467.8	3501.3	3477.9
5°	3548.2	3571.6	3534.8	3528.1	3501.3	3511.4	3511.4	3477.9	3508.0	3504.7	3498.0
7.5°	3641.9	3601.7	3561.6	3521.4	3514.7	3504.7	3467.8	3454.4	3477.9	3451.1	3491.3
10°	3682.1	3688.8	3628.5	3575.0	3524.7	3454.4	3404.2	3374.1	3337.3	3377.5	3400.9
12.5°	3866.2	3799.2	3695.5	3611.8	3441.1	3370.8	3320.6	3307.2	3370.8	3384.2	3360.7
15°	3929.8	3919.7	3785.8	3598.4	3421.0	3337.3	3347.3	3320.6	3327.2	3293.8	3300.5
17.5°	4060.3	3946.5	3789.2	3554.9	3417.6	3397.5	3337.3	3230.2	3169.9	3143.1	3166.6
20°	4204.2	4093.8	3866.2	3571.6	3447.8	3394.2	3196.7	3066.2	2942.3	2875.4	2878.7
22.5°	4331.4	4194.2	3832.7	3578.3	3474.5	3253.6	3015.9	2758.2	2604.2	2500.5	2503.8
25°	4485.4	4291.3	3846.1	3591.7	3404.2	3029.3	2687.9	2436.9	2252.8	2182.5	2205.9
27.5°	4572.5	4351.5	3919.7	3621.8	3220.1	2711.3	2343.1	2108.8	2001.7	1968.2	1964.9
30°	4833.5	4485.4	4010.1	3561.6	2912.2	2369.9	2028.5	1884.5	1780.8	1750.7	1757.3
32.5°	5221.8	4729.8	4127.3	3404.2	2597.5	2065.3	1824.3	1717.2	1620.1	1563.2	1556.5
35°	5546.5	5148.2	4251.1	3159.9	2232.7	1831.0	1680.4	1546.5	1399.2	1335.6	1318.8
37.5°	6165.8	5620.2	4224.3	2791.7	1884.5	1656.9	1526.4	1362.4	1235.2	1148.1	1138.1
40°	6989.2	6172.5	4093.8	2343.1	1626.8	1503.0	1362.4	1205.0	1047.7	974.1	967.4
42.5°	7990.1	6848.6	3856.1	1887.9	1369.1	1349.0	1221.8	1041.0	900.4	846.9	850.2
45°	8803.5	7427.7	3615.1	1516.3	1178.3	1198.3	1087.9	917.2	820.1	776.6	776.6
47.5°	9526.5	7819.4	3354.0	1251.9	1000.9	1047.7	950.6	850.2	766.5	733.1	726.4
50°	10222.8	8217.7	3092.9	1014.2	853.6	900.4	890.4	810.1	743.1	702.9	706.3
52.5°	10657.9	8281.3	2761.5	830.1	746.5	800.0	833.5	759.8	686.2	662.8	656.1
55°	10125.7	7461.2	2142.3	682.9	632.6	702.9	766.5	682.9	626.0	585.8	582.4
56°	9409.4	6671.2	1790.8	629.3	599.2	676.2	743.1	652.7	589.1	565.7	549.0
57.5°	7966.7	5459.5	1322.2	559.0	555.7	629.3	706.3	622.6	549.0	528.9	528.9
60°	4967.4	3072.9	800.0	468.6	482.0	559.0	636.0	555.7	488.7	488.7	498.8
62.5°	2262.8	1278.7	485.4	398.3	415.1	482.0	565.7	502.1	465.3	502.1	508.8
65°	769.9	552.3	351.5	318.0	328.0	398.3	485.4	508.8	505.4	528.9	542.3
67.5°	431.8	354.8	294.6	264.4	257.7	294.6	398.3	508.8	488.7	478.7	485.4
70°	364.9	301.3	261.1	234.3	224.3	237.7	308.0	384.9	344.8	334.7	328.0
72.5°	294.6	251.0	227.6	210.9	180.8	154.0	140.6	147.3	164.0	174.1	190.8
75°	207.5	190.8	190.8	170.7	130.5	97.1	77.0	63.6	43.5	30.1	33.5
77.5°	117.2	117.2	120.5	103.8	83.7	63.6	46.9	33.5	16.7	6.7	3.3
80°	80.3	87.0	93.7	83.7	70.3	56.9	40.2	23.4	10.0	0.0	0.0
82.5°	80.3	90.4	97.1	83.7	70.3	53.6	40.2	23.4	10.0	3.3	0.0
85°	16.7	20.1	23.4	26.8	40.2	40.2	30.1	20.1	10.0	3.3	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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)