

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: P652525

Luminaire Tested: **GALN-SA7B-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29096.9 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

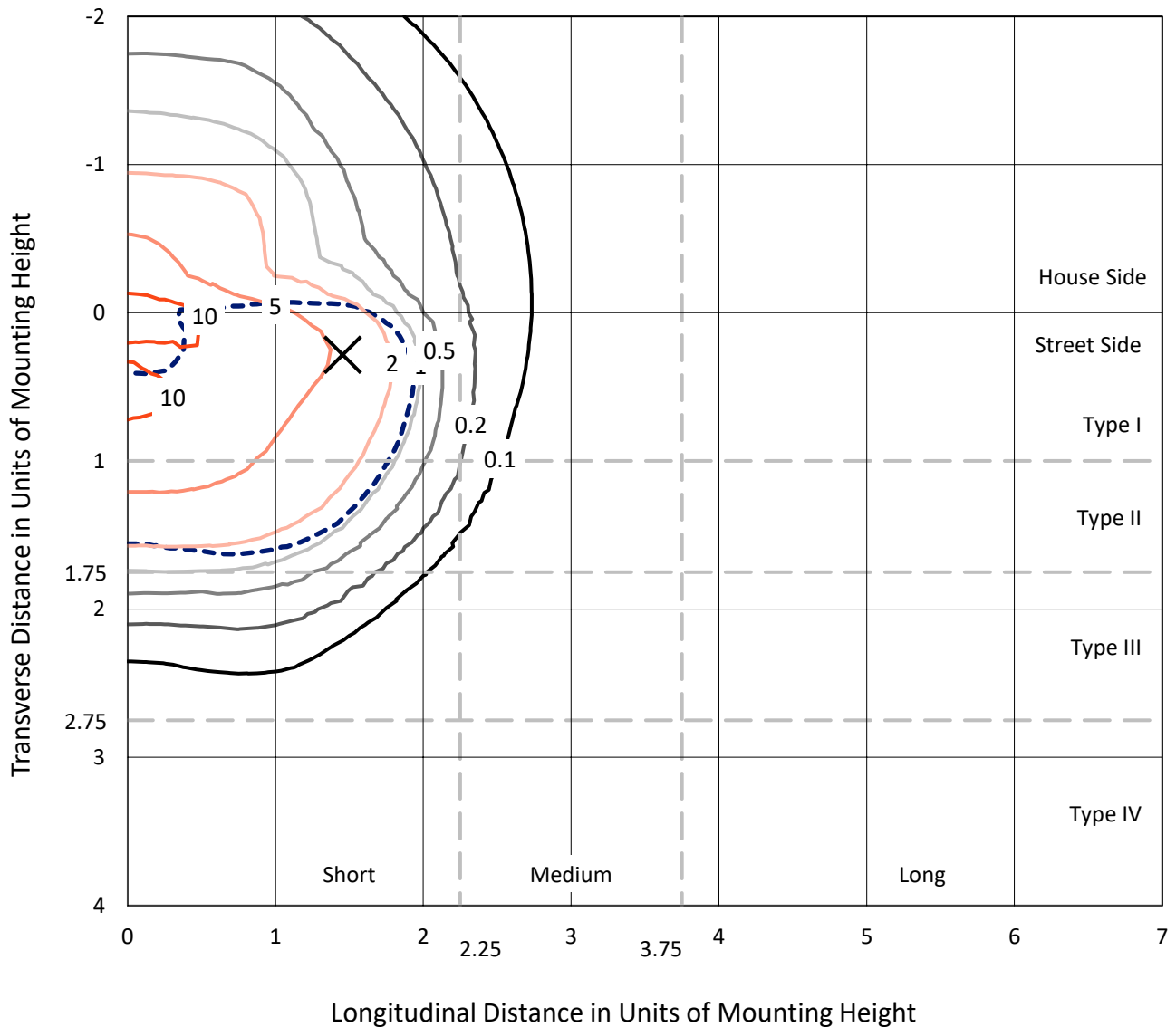
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

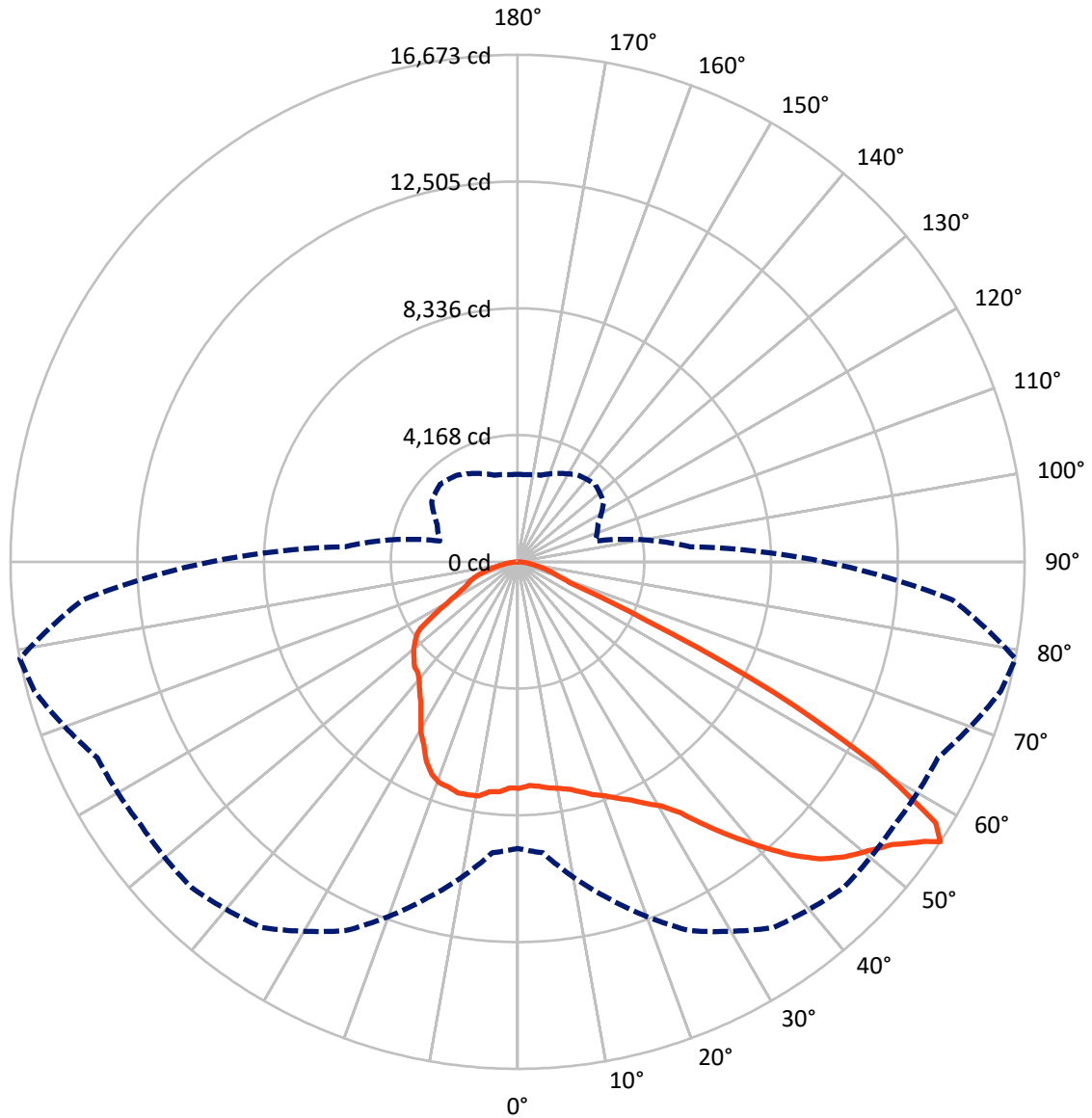
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8593.0	0.0	8593.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	20504.0	0.0	20504.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	29096.9	0.0	29096.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.9	2.3
10°-20°	1852.4	6.4
20°-30°	3169.1	10.9
30°-40°	4857.0	16.7
40°-50°	6564.3	22.6
50°-60°	7539.3	25.9
60°-70°	3436.6	11.8
70°-80°	847.3	2.9
80°-90°	154.0	0.5
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°	29096.9	100.0
0°-180°	29096.9	100.0

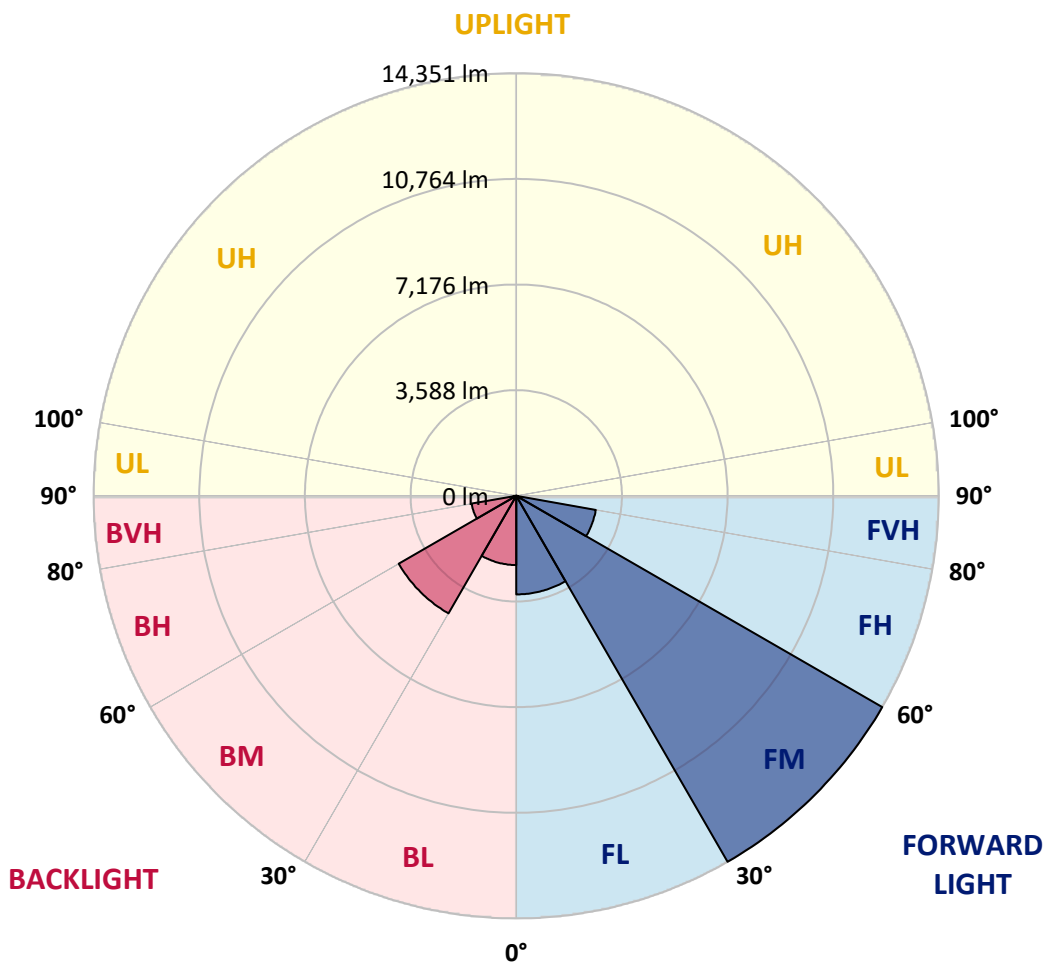


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.8	11.5			
FM (30°-60°)	14351.5	49.3			
FH (60°-80°)	2743.2	9.4			G2/5000
FVH (80°-90°)	61.5	0.2			G1/100
BL (0°-30°)	2350.5	8.1	B3/2500		
BM (30°-60°)	4609.1	15.8	B3/5000		
BH (60°-80°)	1540.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	92.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8
2.5°	7082.3	7064.1	7107.6	7140.3	7180.1	7230.9	7256.3	7270.8	7397.6	7365.0	7462.9
5°	6930.1	6882.9	6915.5	6940.9	7009.8	7071.5	7140.3	7249.0	7365.0	7415.8	7535.4
7.5°	6796.0	6770.6	6763.3	6781.5	6875.7	6955.4	7075.1	7234.5	7423.0	7506.3	7575.2
10°	6574.9	6538.6	6593.0	6712.6	6738.0	6904.7	7042.4	7270.8	7433.9	7578.8	7781.9
12.5°	6477.0	6440.8	6451.6	6520.5	6698.1	6857.6	7020.7	7278.0	7622.3	7680.3	7952.2
15°	6632.9	6596.6	6607.5	6589.4	6759.7	6843.0	7100.4	7423.0	7752.8	7850.7	8140.6
17.5°	6988.0	6991.7	6944.6	6904.7	6864.8	7042.4	7220.1	7510.0	7803.6	8050.1	8267.5
20°	7665.9	7546.2	7452.0	7227.3	7165.7	7241.8	7466.5	7745.6	8010.2	8213.1	8459.6
22.5°	8187.8	8198.7	8064.5	7694.8	7560.8	7593.4	7785.5	8013.8	8303.8	8448.8	8731.4
25°	8945.3	8869.2	8724.2	8430.6	8129.8	8155.2	8296.5	8503.1	8582.8	8684.3	8992.4
27.5°	9637.6	9659.3	9373.0	9097.5	8724.2	8651.7	8905.4	8941.7	8807.5	8999.6	9104.8
30°	10340.8	10322.6	10134.1	9811.5	9445.4	9460.0	9572.3	9394.7	9209.9	9315.0	9387.5
32.5°	11069.2	10862.7	10855.4	10565.5	10286.4	10152.3	10014.5	10101.5	9815.1	9836.9	9768.0
35°	11652.8	11681.8	11515.1	11308.5	11170.8	10935.2	10558.2	10714.1	10659.7	10634.4	10337.2
37.5°	12076.8	11964.5	12047.9	11979.0	11848.5	11554.9	11163.5	11312.1	11337.4	11460.7	11116.4
40°	12424.8	12377.7	12598.8	12635.0	12544.4	11910.2	11207.0	11649.2	12029.7	12297.9	11888.4
42.5°	12591.5	12693.0	12925.0	13204.1	13001.1	12323.3	11431.7	11906.5	12754.7	13178.7	12620.6
45°	12816.3	12685.8	13030.1	13541.2	13544.8	12671.3	11649.2	12254.5	13320.1	13936.2	13120.8
47.5°	12587.9	12653.2	13008.3	13657.2	13823.9	13037.4	12236.4	12747.4	13943.5	14490.8	13584.7
50°	12076.8	12207.4	12856.1	13530.3	14034.1	13425.2	12910.5	13280.2	14519.8	14936.6	13660.8
52.5°	11544.1	11616.6	12631.4	13628.2	14128.4	13925.4	13813.0	14016.0	15222.9	15440.4	13755.1
55°	10094.3	10438.6	11888.4	13584.7	14588.7	14827.9	14740.9	15038.1	16020.4	16237.8	14269.7
56°	9423.7	9605.0	11442.6	13381.7	14679.2	15157.7	15114.2	15248.3	16444.4	16672.7	14349.5
57.5°	8184.2	8198.7	9757.2	12482.8	14338.5	15255.6	15212.1	15317.2	16361.1	16205.2	13649.9
60°	5121.4	5346.2	6640.1	9601.4	12192.9	14153.7	14400.2	13555.7	13794.9	13465.1	10619.8
62.5°	2653.1	2620.6	3479.6	5614.3	8093.5	10134.1	10362.5	10322.6	9952.9	9470.8	6937.3
65°	1323.0	1330.2	1819.5	2780.0	4146.5	5306.3	5944.2	6013.1	5030.9	4628.5	3291.1
67.5°	960.5	996.8	1308.4	1699.9	1953.6	2185.6	2678.5	2627.8	1989.9	1892.0	1754.2
70°	746.6	779.3	1062.0	1297.6	1178.0	1178.0	1283.1	1326.6	1417.2	1457.0	1504.2
72.5°	543.7	569.0	811.9	895.2	772.0	830.0	960.5	1062.0	1156.2	1170.8	1225.1
75°	373.3	395.1	532.8	492.9	463.9	572.6	703.2	797.4	866.2	902.5	935.1
77.5°	242.9	250.1	304.4	257.3	297.2	369.7	456.7	536.4	605.3	634.3	641.5
80°	108.7	119.6	130.5	163.1	206.6	264.6	326.2	391.5	435.0	445.8	467.6
82.5°	61.6	61.6	79.7	116.0	152.2	192.1	235.6	282.7	333.5	344.3	340.7
85°	32.6	32.6	47.1	68.9	94.3	112.4	108.7	112.4	119.6	137.8	134.1
87.5°	10.8	10.8	14.5	14.5	18.1	21.8	18.1	25.4	32.6	32.6	32.6
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°	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8	7444.8
2.5°	7433.9	7466.5	7423.0	7517.3	7517.3	7499.1	7408.5	7437.5	7459.2	7459.2	7477.3
5°	7575.2	7564.4	7593.4	7481.0	7412.2	7386.8	7238.2	7165.7	7104.0	7100.4	7046.1
7.5°	7655.0	7625.9	7615.1	7531.7	7227.3	7042.4	6723.5	6538.6	6498.7	6357.4	6411.8
10°	7781.9	7836.2	7781.9	7328.7	6904.7	6480.7	6168.9	5882.5	5770.2	5679.6	5625.3
12.5°	8042.8	8017.4	7702.1	7089.5	6495.1	5991.3	5527.4	5226.6	5114.2	5034.5	5027.2
15°	8263.9	8137.0	7655.0	6712.6	5857.2	5320.8	4940.2	4726.3	4675.6	4682.9	4715.5
17.5°	8340.0	8253.0	7408.5	6321.1	5382.4	4751.7	4574.1	4541.5	4588.7	4643.0	4657.5
20°	8459.6	8321.9	7307.0	5788.4	4795.2	4396.5	4385.6	4501.6	4588.7	4668.4	4679.2
22.5°	8709.7	8361.7	6977.2	5284.5	4392.9	4291.5	4396.5	4494.4	4628.5	4693.7	4635.8
25°	8782.2	8274.8	6513.2	4679.2	4139.2	4226.2	4338.6	4472.7	4566.9	4603.1	4628.5
27.5°	8843.8	8140.6	5886.2	4276.9	4059.4	4222.6	4338.6	4450.9	4501.6	4534.3	4563.3
30°	9017.8	8100.8	5342.5	4008.7	4008.7	4150.1	4298.7	4327.7	4396.5	4436.4	4487.2
32.5°	9104.8	7825.3	4784.4	3838.3	3958.0	4186.3	4197.2	4251.6	4255.2	4287.8	4233.4
35°	9333.1	7629.6	4266.1	3715.1	3979.7	4150.1	4204.4	4171.8	3994.2	3907.2	3925.4
37.5°	9499.9	7531.7	3892.7	3700.7	3983.3	4189.9	4219.0	3972.5	3787.6	3642.6	3678.9
40°	9949.3	7288.9	3610.0	3675.3	4015.9	4233.4	4153.7	3885.5	3552.0	3403.4	3378.0
42.5°	10293.6	7114.9	3432.4	3646.2	4041.3	4295.1	4121.1	3711.5	3370.8	3233.1	3269.3
45°	10692.3	7075.1	3338.2	3653.5	4084.8	4327.7	4081.2	3577.4	3215.0	3160.6	3149.7
47.5°	10833.7	6788.7	3236.7	3591.9	4074.0	4316.8	3947.1	3475.9	3156.9	3164.2	3193.2
50°	10598.1	6495.1	3160.6	3465.0	4001.5	4219.0	3736.9	3341.8	3124.3	3215.0	3265.7
52.5°	10297.2	6194.3	3004.7	3294.7	3852.9	4066.7	3639.0	3334.6	3091.7	3062.8	3073.6
55°	10387.9	5947.8	2787.2	3062.8	3613.6	3784.0	3530.3	3265.7	3012.0	2903.2	2939.5
56°	10094.3	5694.1	2645.9	2917.8	3450.5	3602.8	3475.9	3204.0	2946.7	2874.2	2874.2
57.5°	9264.3	4842.3	2461.0	2685.7	3106.2	3287.5	3370.8	3167.8	2874.2	2747.4	2751.0
60°	6832.2	3443.3	2207.3	2366.8	2573.4	2718.4	3106.2	3066.4	2693.1	2606.0	2573.4
62.5°	4211.6	2515.4	2026.1	2087.7	2192.8	2312.4	2711.1	2776.4	2500.9	2406.7	2384.9
65°	2359.6	1924.6	1888.4	1913.8	1964.5	2026.1	2250.9	2395.8	2207.3	2062.4	2055.1
67.5°	1725.2	1721.6	1750.6	1772.4	1794.1	1794.1	1848.5	1906.5	1881.1	1765.2	1754.2
70°	1533.1	1544.1	1565.8	1569.4	1576.6	1551.3	1507.8	1489.7	1518.7	1446.2	1431.7
72.5°	1264.9	1301.2	1326.6	1330.2	1290.3	1257.7	1199.7	1138.1	1116.3	1101.9	1098.3
75°	971.4	996.8	1007.6	1004.0	989.5	942.3	873.5	811.9	772.0	728.6	750.3
77.5°	656.1	692.3	710.4	710.4	688.7	616.2	583.6	536.4	496.5	449.4	456.7
80°	460.3	485.7	514.7	511.1	474.8	438.6	391.5	347.9	315.3	279.1	275.4
82.5°	344.3	358.9	373.3	366.1	340.7	304.4	271.8	231.9	195.7	170.4	170.4
85°	123.2	134.1	163.1	170.4	184.9	184.9	155.8	130.5	105.1	87.0	87.0
87.5°	36.2	36.2	39.9	39.9	36.2	39.9	32.6	36.2	39.9	25.4	25.4
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)