

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: P651589

Luminaire Tested: **GALN-SA8D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651589
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-SA8D-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA 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: 31950.4 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

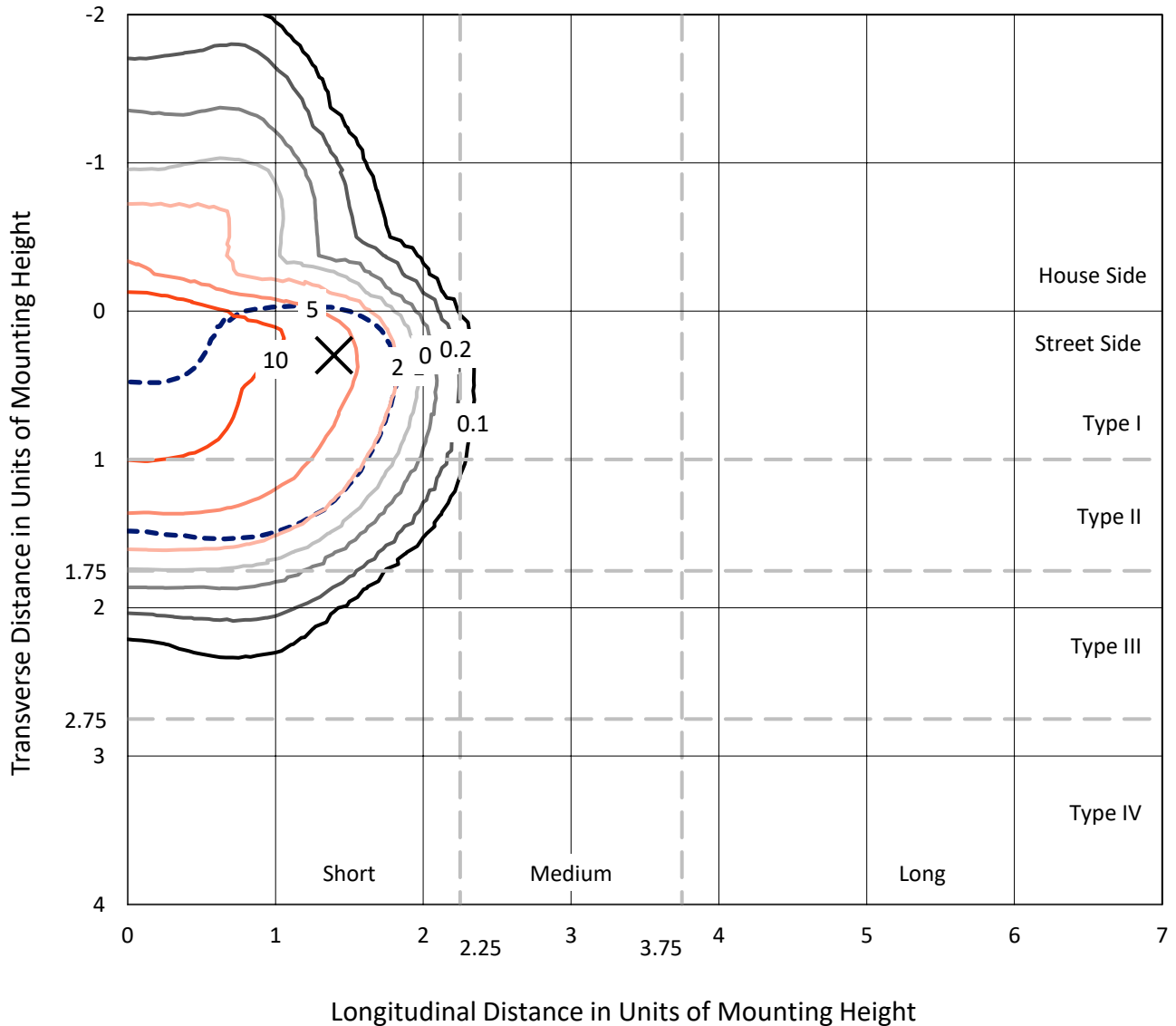
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

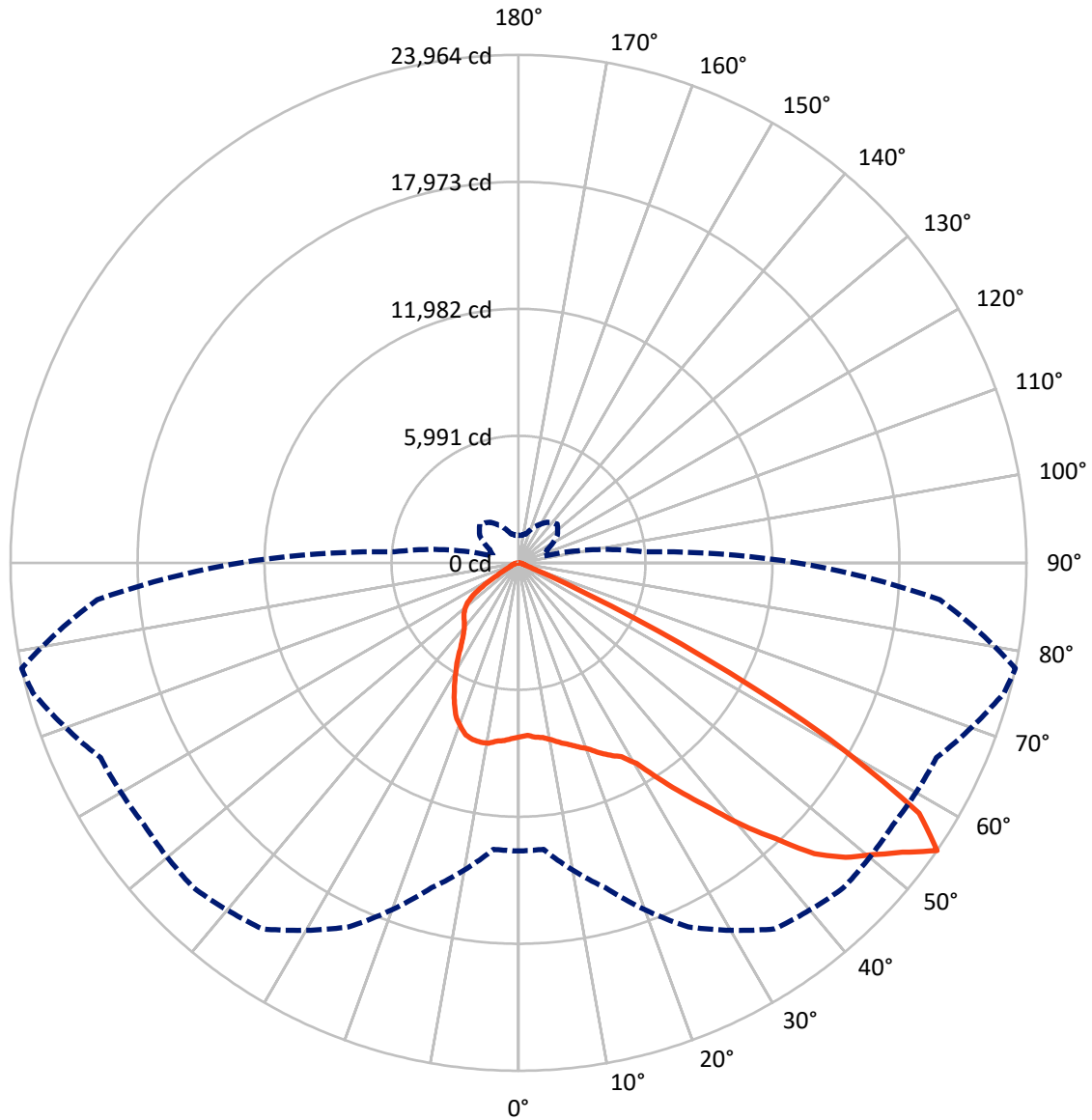
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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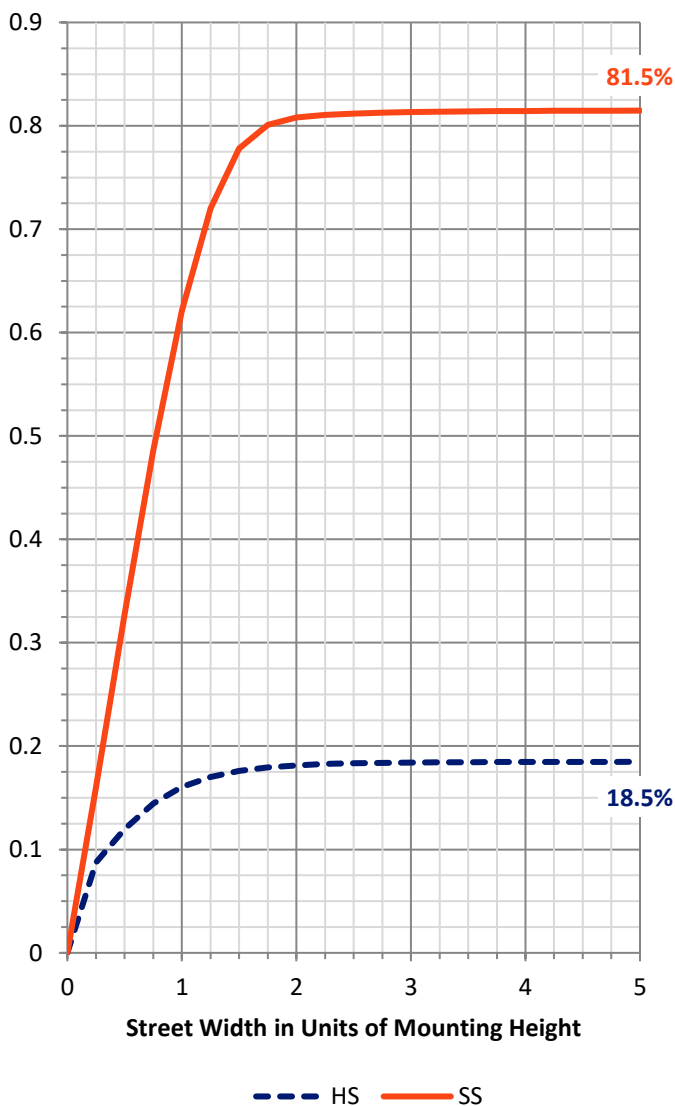
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5934.4	0.0	5934.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	26016.0	0.0	26016.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	31950.4	0.0	31950.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.5	2.3
10°-20°	1938.5	6.1
20°-30°	3397.8	10.6
30°-40°	5602.6	17.5
40°-50°	8152.5	25.5
50°-60°	9237.6	28.9
60°-70°	2641.2	8.3
70°-80°	205.1	0.6
80°-90°	42.7	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°	31950.4	100.0
0°-180°	31950.4	100.0

Coefficient of Utilization



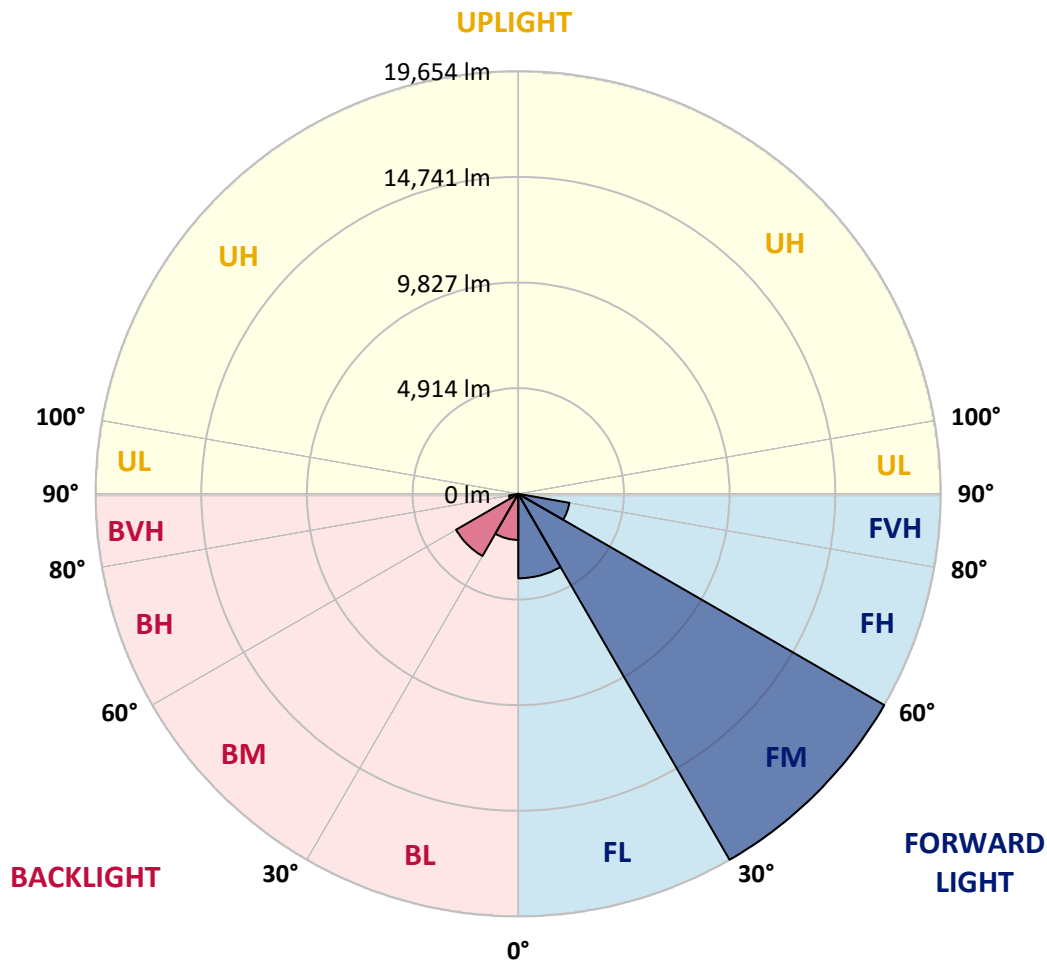
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3927.6	12.3			
FM (30°-60°)	19654.5	61.5			
FH (60°-80°)	2413.1	7.6			G2/5000
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	2141.2	6.7	B3/2500		
BM (30°-60°)	3338.2	10.4	B3/5000		
BH (60°-80°)	433.2	1.4	B1/500		G1/500
BVH (80°-90°)	21.9	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5
2.5°	7723.2	7797.5	7808.9	7900.3	7894.6	8048.8	8094.5	8100.3	8203.0	8151.6	8283.0
5°	7506.1	7466.1	7449.0	7608.9	7654.7	7791.8	7906.0	7974.5	8185.9	8260.1	8397.3
7.5°	7311.9	7311.9	7323.3	7466.1	7449.0	7626.1	7746.0	7957.4	8265.9	8328.8	8494.4
10°	7123.4	7054.8	7140.5	7289.0	7414.8	7494.7	7746.0	7946.0	8305.9	8488.6	8717.1
12.5°	7026.3	7060.5	7072.0	7180.5	7317.6	7557.6	7694.6	8026.0	8591.5	8700.1	8945.6
15°	7637.5	7569.0	7403.3	7306.2	7420.5	7534.7	7877.5	8214.5	8740.0	8894.2	9168.4
17.5°	8345.8	8288.7	8151.6	7888.8	7631.8	7843.2	8111.6	8420.1	8900.0	9128.5	9534.1
20°	9271.3	9179.9	9042.8	8528.7	8305.9	8077.4	8363.0	8728.6	9162.8	9368.4	9785.4
22.5°	10373.7	10373.7	10065.3	9442.7	8979.9	8762.9	8882.8	9094.2	9454.1	9734.0	10145.2
25°	11522.0	11487.7	11207.8	10562.3	9779.7	9522.6	9659.7	9808.2	9905.4	10059.6	10333.8
27.5°	12835.8	12635.9	12281.7	11567.7	10876.5	10379.5	10528.0	10396.6	10276.7	10356.7	10750.8
30°	13727.0	13852.6	13401.3	12715.8	12064.6	11510.5	11539.1	11424.9	10876.5	10990.7	11224.9
32.5°	14652.4	14732.4	14481.0	14104.0	13452.8	12807.3	12573.0	12476.0	12064.6	12116.0	11887.5
35°	15423.5	15577.8	15355.0	15189.4	15000.8	14481.0	13835.5	14149.7	13487.0	13361.4	12767.3
37.5°	16131.9	16086.2	16349.0	16177.6	16137.6	15772.0	15063.7	15126.5	14680.9	14652.4	13966.9
40°	16766.0	16777.4	17137.3	17217.3	17057.3	16406.1	15377.9	15874.9	16234.7	16269.0	15389.3
42.5°	17291.5	17445.8	17754.3	18399.7	18159.8	17074.5	15703.5	16246.2	17582.9	17794.2	16737.4
45°	17748.5	18062.7	18445.4	19022.4	18885.3	18022.7	16514.6	17011.6	19022.4	19576.5	18005.6
47.5°	17777.1	18188.4	18605.4	19462.3	19633.6	18531.1	17354.4	18222.6	20164.9	20764.7	18931.0
50°	17662.9	17879.9	18713.9	19645.1	20033.5	19359.4	18531.1	19239.5	21273.1	21650.1	19399.4
52.5°	16309.0	16474.7	18148.4	19816.4	20753.3	20296.3	20090.6	20656.1	22404.2	22684.0	19839.3
55°	13595.6	13567.0	15869.2	18953.9	21084.5	21684.3	21558.7	21758.7	23712.3	23963.6	19947.8
57.5°	9299.9	9819.7	11807.6	15783.5	19056.6	21358.8	21490.2	21158.8	22187.1	22284.2	17388.6
60°	5015.5	5232.6	6832.0	10533.7	14509.6	17405.8	17748.5	17148.7	17068.8	16794.5	12413.1
62.5°	1993.7	2102.2	3010.4	5215.5	7906.0	10579.4	11316.3	11070.7	10545.1	9825.4	6426.5
65°	948.2	1016.9	1496.6	2439.2	3507.4	4410.0	5146.9	5375.4	3964.4	3570.3	2119.3
67.5°	645.5	696.9	1091.1	1393.9	1251.0	1308.2	1702.3	1582.3	931.2	794.0	588.4
70°	491.2	525.5	874.0	948.2	559.9	394.2	439.8	411.3	382.7	388.5	382.7
72.5°	348.4	377.0	639.8	559.9	245.7	182.8	234.2	279.9	279.9	279.9	274.2
75°	211.3	239.9	371.3	217.1	97.1	97.1	148.5	188.6	199.9	205.6	194.2
77.5°	108.6	137.1	125.6	62.8	62.8	74.3	108.6	131.4	142.8	142.8	137.1
80°	22.9	22.9	22.9	34.3	62.8	80.0	108.6	119.9	137.1	137.1	125.6
82.5°	0.0	5.7	17.2	34.3	57.1	74.3	102.9	119.9	137.1	142.8	131.4
85°	0.0	5.7	11.4	22.9	39.9	45.7	39.9	34.3	34.3	34.3	34.3
87.5°	0.0	0.0	5.7	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5	8214.5
2.5°	8294.4	8311.6	8283.0	8277.3	8254.5	8323.0	8157.4	8117.3	8220.2	8123.1	8145.9
5°	8403.0	8443.0	8391.6	8305.9	8180.2	7986.0	7820.3	7603.2	7500.5	7426.2	7414.8
7.5°	8483.0	8511.5	8460.1	8185.9	7808.9	7317.6	6952.0	6683.5	6472.2	6409.3	6306.5
10°	8808.5	8814.3	8557.3	7951.7	7214.8	6569.3	6009.4	5598.2	5386.9	5255.4	5198.3
12.5°	9025.6	9014.2	8494.4	7489.0	6506.5	5649.6	5009.8	4512.8	4318.6	4255.8	4215.8
15°	9299.9	9237.0	8345.8	7014.9	5592.5	4667.0	4090.1	3747.3	3730.3	3690.2	3730.3
17.5°	9516.9	9339.8	8128.8	6152.3	4718.4	3844.5	3467.4	3490.3	3536.0	3576.0	3581.7
20°	9871.1	9505.5	7631.8	5398.2	3907.3	3296.0	3290.3	3393.2	3507.4	3553.1	3598.8
22.5°	10139.6	9574.0	7100.6	4592.8	3244.7	3073.3	3170.4	3324.6	3410.3	3456.0	3524.5
25°	10236.7	9385.6	6392.2	3787.4	2924.7	2970.5	3119.0	3221.8	3330.4	3381.7	3353.2
27.5°	10333.8	9288.4	5546.7	3119.0	2753.3	2902.0	3027.6	3130.4	3164.7	3233.2	3279.0
30°	10568.0	8951.4	4787.1	2696.2	2667.7	2856.2	2947.6	2981.8	3073.3	3113.3	3113.3
32.5°	10756.5	8820.0	3981.5	2496.3	2656.3	2879.1	2890.5	2890.5	2902.0	2873.4	2861.9
35°	11144.9	8368.7	3261.8	2376.3	2650.6	2884.8	2913.3	2816.3	2553.4	2450.7	2422.1
37.5°	11624.8	8077.4	2730.6	2347.8	2690.5	2953.3	2999.0	2633.4	2290.7	2125.0	2096.4
40°	12207.5	7871.8	2382.0	2336.4	2781.9	3113.3	2976.2	2490.6	2045.1	1805.1	1793.7
42.5°	12887.2	7683.2	2147.9	2330.7	2896.2	3279.0	2953.3	2370.7	1793.7	1633.7	1656.6
45°	13429.9	7580.4	1988.0	2290.7	2936.2	3376.0	2970.5	2159.3	1690.9	1588.1	1599.5
47.5°	13852.6	7363.3	1856.5	2222.2	2930.5	3410.3	2816.3	2073.7	1639.4	1668.0	1696.6
50°	13864.1	7072.0	1690.9	2073.7	2844.8	3347.5	2639.1	1993.7	1628.0	1748.0	1805.1
52.5°	13709.8	6660.7	1513.8	1862.2	2644.9	3130.4	2479.2	1959.4	1576.6	1565.2	1633.7
55°	13161.4	5889.5	1216.8	1508.1	2233.5	2582.0	2336.4	1896.5	1422.4	1291.0	1302.5
57.5°	10636.5	4221.5	896.8	1079.7	1582.3	1890.8	2107.9	1867.9	1279.6	1096.7	1102.5
60°	6586.5	2393.5	656.9	736.9	976.8	1148.2	1708.0	1736.6	1142.5	925.4	914.0
62.5°	3381.7	1182.4	508.4	519.8	599.8	674.1	1171.0	1456.7	1033.9	879.7	879.7
65°	1131.1	582.6	445.6	399.9	399.9	417.0	708.4	1011.1	874.0	736.9	736.9
67.5°	485.6	434.1	388.5	348.4	319.9	302.8	399.9	588.4	651.2	559.9	537.0
70°	377.0	365.6	337.1	291.3	251.4	228.5	234.2	302.8	371.3	359.9	348.4
72.5°	279.9	279.9	268.4	228.5	194.2	165.7	154.2	160.0	177.1	182.8	188.6
75°	194.2	199.9	199.9	177.1	142.8	119.9	102.9	85.7	68.5	57.1	51.4
77.5°	131.4	137.1	148.5	131.4	108.6	80.0	62.8	45.7	28.6	11.4	11.4
80°	114.2	131.4	142.8	131.4	114.2	85.7	62.8	34.3	17.2	0.0	0.0
82.5°	119.9	131.4	148.5	125.6	108.6	80.0	62.8	39.9	17.2	5.7	0.0
85°	28.6	28.6	34.3	39.9	51.4	57.1	45.7	28.6	17.2	5.7	0.0
87.5°	11.4	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	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)