

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: P650954

Luminaire Tested: **GALN-SA6C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20464.9 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

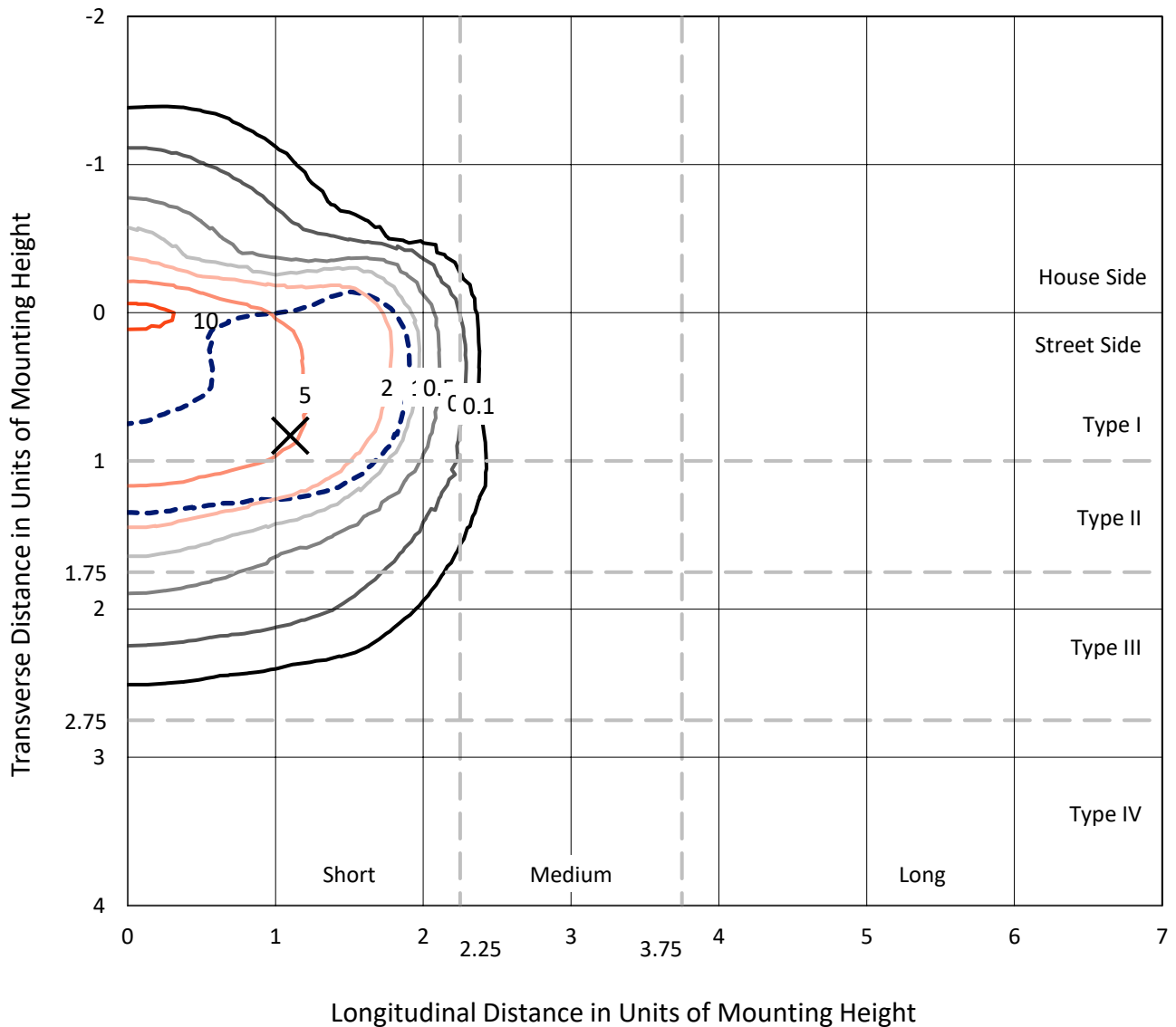
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

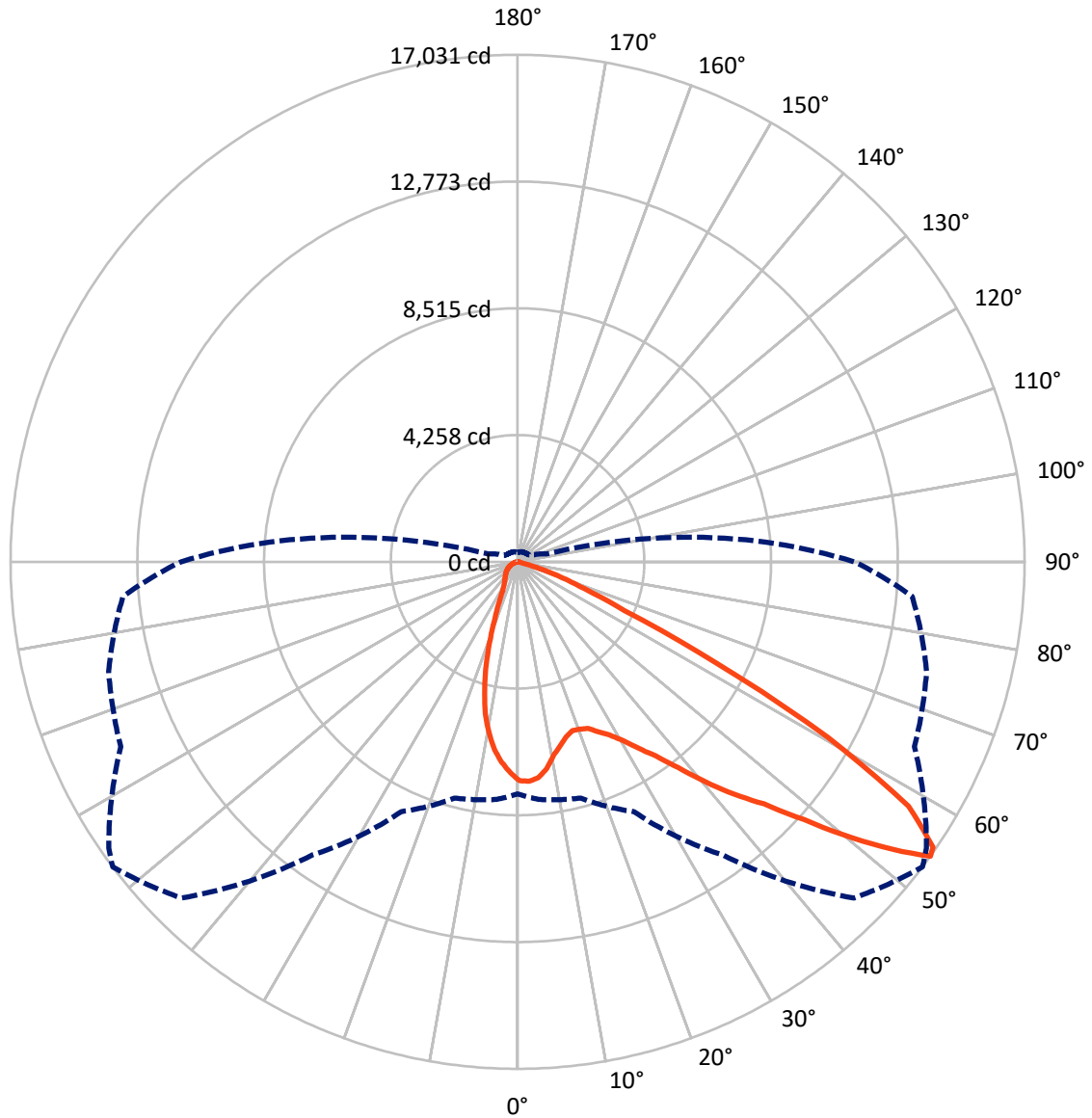
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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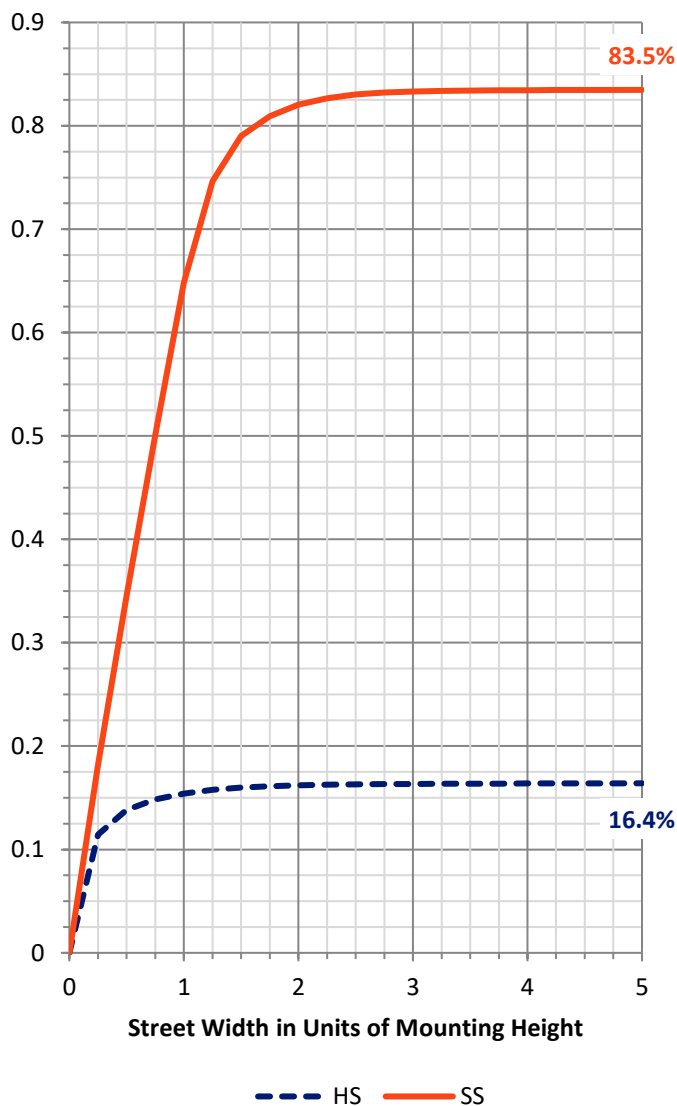
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3386.0	0.0	3386.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17078.9	0.0	17078.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	20464.9	0.0	20464.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.7	3.1
10°-20°	1445.9	7.1
20°-30°	2055.0	10.0
30°-40°	3171.4	15.5
40°-50°	4972.4	24.3
50°-60°	5776.1	28.2
60°-70°	2182.6	10.7
70°-80°	207.5	1.0
80°-90°	23.4	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°	20464.9	100.0
0°-180°	20464.9	100.0

Coefficient of Utilization



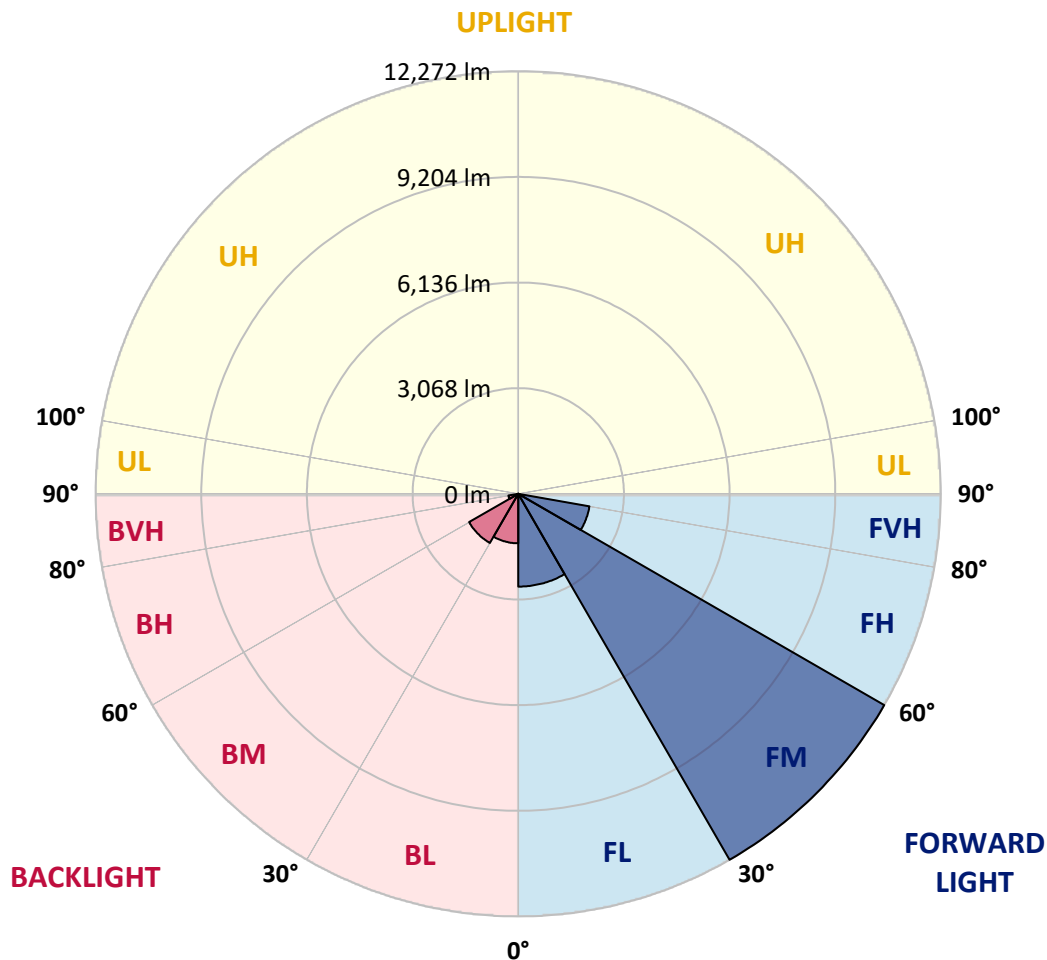
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2694.7	13.2			
FM (30°-60°)	12272.2	60.0			
FH (60°-80°)	2100.0	10.3			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1436.9	7.0	B3/2500		
BM (30°-60°)	1647.7	8.1	B2/2500		
BH (60°-80°)	290.1	1.4	B1/500		G1/500
BVH (80°-90°)	11.3	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°	53°	55°	65°	75°	85°
0°	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7
2.5°	7312.5	7247.7	7312.5	7320.1	7365.9	7407.9	7381.1	7442.2	7407.9	7369.7	7358.2
5°	6721.6	6809.2	6813.1	6950.4	6919.8	7171.5	7282.1	7251.5	7438.3	7426.9	7400.2
7.5°	6191.6	6157.3	6203.0	6363.2	6565.3	6855.0	7015.1	7011.3	7278.2	7468.8	7449.7
10°	5699.8	5696.0	5791.3	5917.1	6088.7	6393.7	6614.8	6725.4	7140.9	7430.7	7472.6
12.5°	5368.1	5352.9	5455.8	5558.8	5829.4	6065.8	6348.0	6401.4	6877.9	7297.3	7365.9
15°	5150.8	5185.1	5192.8	5391.0	5562.5	5875.1	6096.3	6206.8	6755.9	7190.6	7453.6
17.5°	5112.7	5158.4	5162.2	5326.1	5509.1	5772.2	5966.6	6115.3	6653.0	7243.9	7457.4
20°	5188.9	5162.2	5185.1	5288.0	5467.3	5718.9	6001.0	6050.6	6618.7	7270.6	7499.4
22.5°	5406.2	5398.6	5341.4	5425.3	5551.1	5814.2	6081.0	6157.3	6717.7	7407.9	7533.7
25°	5646.4	5688.4	5635.0	5623.5	5711.2	5970.5	6325.1	6424.2	7049.4	7655.6	7640.4
27.5°	6096.3	6054.4	6054.4	6001.0	5978.1	6103.9	6588.1	6752.1	7419.3	7975.9	7762.4
30°	6527.2	6572.9	6538.6	6557.6	6405.1	6393.7	6961.8	7163.8	8075.0	8463.9	8021.6
32.5°	7209.6	7148.6	7205.8	7156.2	6954.1	6748.3	7468.8	7678.5	8868.0	9024.4	8410.5
35°	7777.7	7751.0	7995.0	7987.3	7659.5	7457.4	8006.4	8319.0	9420.9	9695.4	8868.0
37.5°	8585.9	8536.3	8814.7	8948.2	8654.6	8353.3	8776.5	9138.7	9935.6	10233.0	9337.0
40°	9417.1	9542.9	9916.5	10137.7	9825.0	9424.7	9718.3	9828.9	10278.7	10583.7	9657.3
42.5°	10469.4	10652.4	11033.6	11224.2	11197.5	10762.9	10675.2	10671.4	10526.5	10484.6	9893.6
45°	11479.6	11411.0	11998.2	12413.7	12749.2	12623.4	11597.9	11483.4	10919.2	10633.3	9954.7
47.5°	11921.9	11899.1	12299.4	13039.0	14182.8	14339.1	12939.9	12497.6	11582.6	11258.6	10286.4
50°	11350.1	11468.2	11864.7	12684.5	14438.2	15631.6	14586.9	13992.1	12356.6	12021.1	11071.7
52.5°	9481.9	9561.9	9939.4	10980.2	13568.9	16394.0	16165.3	15822.2	13778.6	13222.0	12440.4
54°	7796.7	8010.2	8216.1	9260.8	12021.1	15970.8	17030.8	16767.7	14705.1	14220.9	13302.1
55°	6790.2	6916.0	7064.7	8105.6	10949.7	15254.1	16931.7	16954.6	15326.6	14533.6	13881.5
57.5°	4960.1	5047.9	4895.4	5356.7	7518.4	12387.1	15486.7	16104.3	16165.3	15002.5	14236.2
60°	3789.7	3827.8	3656.2	3728.7	4674.2	8502.0	11979.1	12722.6	14583.1	13111.4	12059.2
62.5°	2939.5	2947.1	2943.3	3069.1	3221.6	5002.1	7491.7	8151.3	10053.7	9310.3	8189.4
65°	2165.6	2131.3	2192.2	2573.5	2748.9	3145.3	3946.1	4426.4	5463.4	4613.2	3297.9
67.5°	1403.0	1414.5	1475.5	1913.9	2356.1	2413.3	2428.6	2390.5	2394.3	1319.2	827.3
70°	842.6	861.6	842.6	1082.8	1685.2	1730.9	1582.3	1544.1	1204.7	312.6	308.8
72.5°	499.5	472.7	423.2	465.2	701.5	838.7	754.9	751.1	472.7	183.0	183.0
75°	209.7	190.7	156.3	141.0	186.8	179.2	179.2	160.1	125.8	122.0	114.4
77.5°	42.0	42.0	30.5	34.3	45.8	53.4	64.8	64.8	76.3	76.3	72.4
80°	0.0	3.8	11.4	22.9	34.3	49.5	57.2	57.2	64.8	64.8	53.4
82.5°	0.0	3.8	11.4	22.9	30.5	45.8	57.2	57.2	64.8	68.6	57.2
85°	0.0	3.8	11.4	19.1	30.5	38.1	38.1	34.3	26.7	22.9	15.2
87.5°	0.0	0.0	3.8	7.7	3.8	7.7	7.7	7.7	7.7	7.7	7.7
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°	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7	7350.7
2.5°	7385.0	7381.1	7289.6	7140.9	7106.6	6980.8	6965.6	6889.3	6931.3	6790.2	6774.9
5°	7323.9	7278.2	7167.7	7072.3	6794.0	6595.8	6439.5	6248.8	6138.2	6157.3	6084.9
7.5°	7411.6	7293.5	7099.0	6767.4	6428.0	6081.0	5894.2	5505.4	5364.3	5154.6	5124.1
10°	7320.1	7232.4	6931.3	6382.3	5913.3	5413.9	4975.4	4544.6	4216.7	4075.7	4045.1
12.5°	7312.5	7160.0	6656.8	6046.7	5368.1	4651.3	4014.7	3477.0	3153.0	2970.0	2928.0
15°	7194.3	7011.3	6348.0	5528.2	4590.3	3698.2	3004.3	2485.8	2238.0	2131.3	2161.7
17.5°	7205.8	6931.3	6039.1	4979.2	3824.0	2714.6	2051.2	1784.3	1719.5	1746.2	1746.2
20°	7194.3	6752.1	5665.5	4346.4	2928.0	1883.4	1506.0	1410.7	1452.6	1536.5	1517.4
22.5°	7133.4	6668.2	5322.4	3679.1	2154.1	1395.4	1208.6	1212.4	1277.2	1380.2	1403.0
25°	7179.1	6481.4	4887.7	3004.3	1570.8	1113.2	1048.5	1075.1	1143.8	1220.0	1235.3
27.5°	7144.8	6348.0	4434.0	2333.3	1147.5	957.0	953.1	983.6	1014.2	1071.3	1071.3
30°	7182.9	6225.9	3987.9	1734.7	945.5	876.9	861.6	884.5	915.0	926.4	922.7
32.5°	7323.9	6134.4	3473.2	1296.3	834.9	800.6	800.6	800.6	796.8	812.1	815.9
35°	7632.7	6149.6	3019.5	1002.7	762.5	735.8	724.4	709.1	701.5	709.1	712.9
37.5°	7968.3	6142.1	2550.6	854.0	709.1	686.3	659.6	636.7	632.9	640.5	629.1
40°	8117.0	6214.5	2116.0	766.3	659.6	632.9	591.0	571.9	575.7	583.3	575.7
42.5°	8319.0	6237.4	1833.9	697.7	613.8	571.9	545.2	522.3	518.5	529.9	526.1
45°	8315.2	6107.8	1536.5	659.6	571.9	526.1	491.8	472.7	472.7	480.4	484.2
47.5°	8559.2	6088.7	1319.2	625.3	541.4	495.6	453.7	438.4	434.6	434.6	427.0
50°	9127.3	6355.5	1151.4	587.1	503.3	461.3	427.0	408.0	392.7	385.1	381.2
52.5°	10236.7	7186.7	1021.7	541.4	461.3	427.0	396.5	381.2	362.2	343.1	339.3
54°	11311.9	8044.5	1014.2	503.3	427.0	404.1	377.4	369.8	346.9	320.3	312.6
55°	11796.1	8544.0	1040.8	472.7	404.1	388.9	366.0	358.4	335.5	305.0	301.2
57.5°	12196.4	8738.4	1025.6	392.7	366.0	362.2	343.1	331.7	305.0	263.1	255.4
60°	9817.4	6607.2	735.8	346.9	335.5	327.9	312.6	305.0	270.7	225.0	221.1
62.5°	6203.0	3801.2	468.9	305.0	293.6	282.2	263.1	255.4	225.0	179.2	167.8
65°	2642.1	1574.6	316.5	270.7	251.6	232.5	217.3	205.9	179.2	133.5	129.6
67.5°	686.3	560.4	263.1	236.4	209.7	183.0	171.6	152.5	122.0	91.5	87.7
70°	308.8	282.2	221.1	198.2	167.8	141.0	125.8	106.7	80.1	61.0	57.2
72.5°	183.0	179.2	167.8	148.7	125.8	106.7	91.5	72.4	53.4	34.3	34.3
75°	114.4	110.6	114.4	102.9	87.7	80.1	68.6	49.5	30.5	15.2	15.2
77.5°	68.6	68.6	68.6	64.8	61.0	61.0	49.5	30.5	15.2	3.8	3.8
80°	53.4	53.4	57.2	53.4	53.4	53.4	42.0	22.9	7.7	0.0	0.0
82.5°	53.4	57.2	64.8	61.0	53.4	45.8	38.1	22.9	7.7	0.0	0.0
85°	15.2	11.4	19.1	26.7	38.1	34.3	26.7	19.1	7.7	0.0	0.0
87.5°	7.7	7.7	7.7	7.7	3.8	3.8	3.8	3.8	3.8	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)