

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: P647482

Luminaire Tested: **GALN-SA6D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26795 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

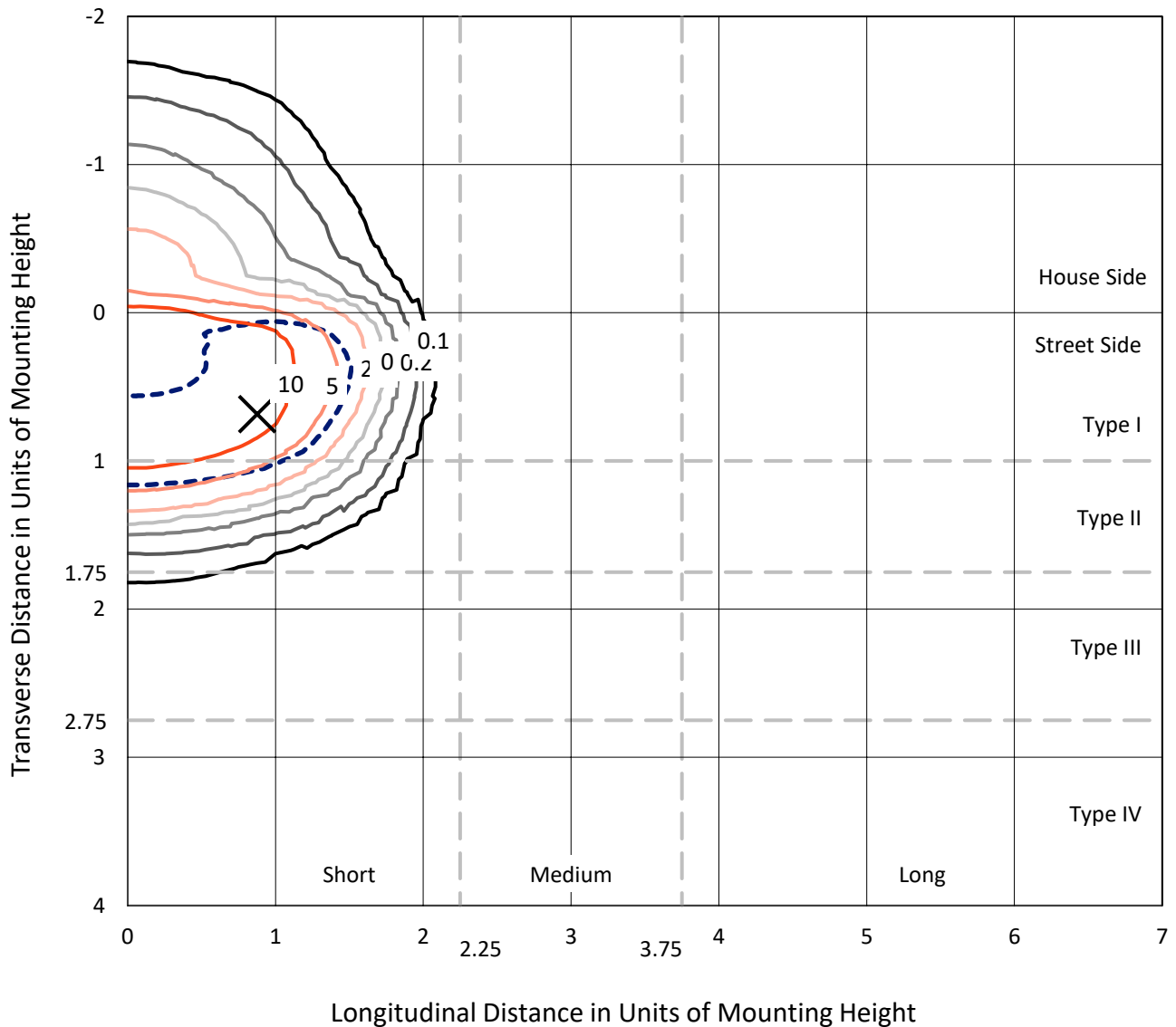
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

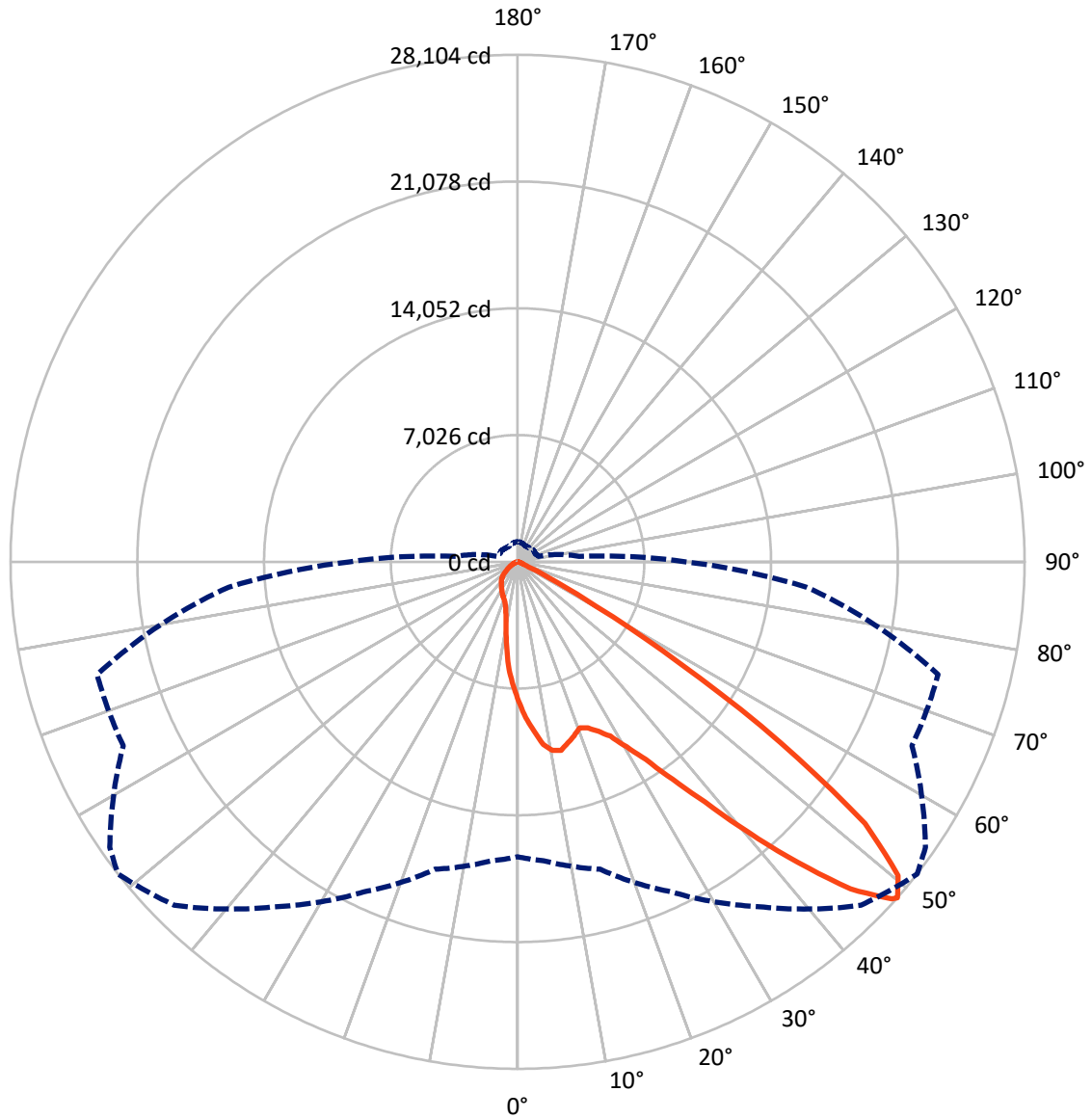
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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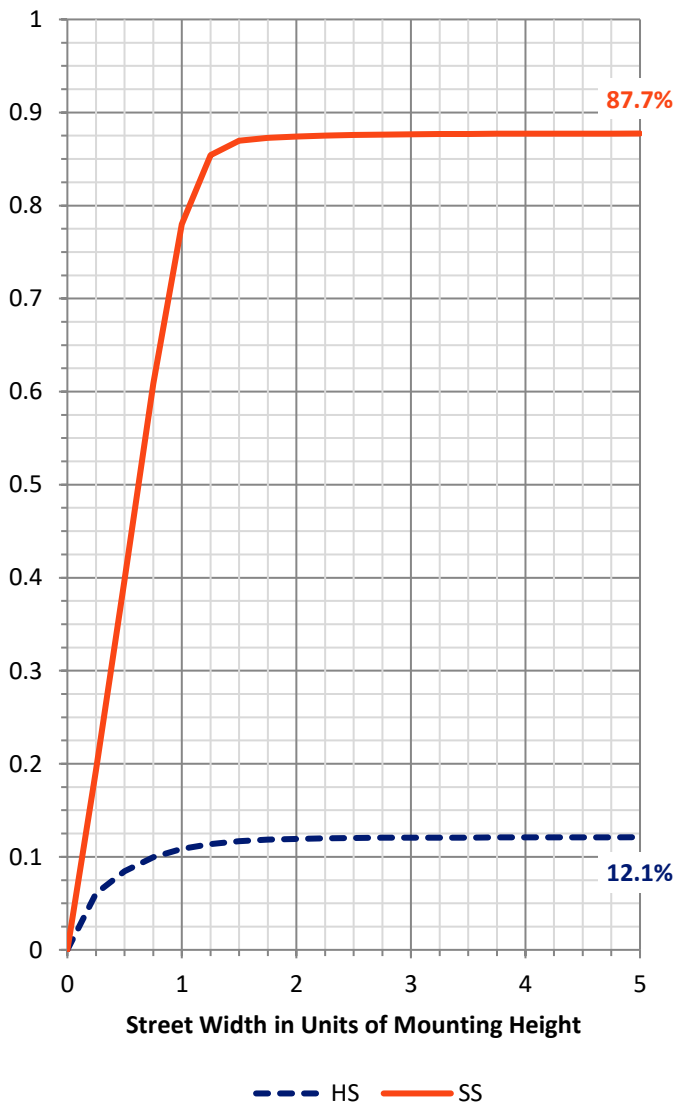
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3262.5	0.0	3262.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23532.5	0.0	23532.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	26795.0	0.0	26795.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.2	2.6
10°-20°	1850.9	6.9
20°-30°	3160.2	11.8
30°-40°	5819.6	21.7
40°-50°	9037.8	33.7
50°-60°	5439.2	20.3
60°-70°	629.1	2.3
70°-80°	121.8	0.5
80°-90°	28.2	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°	26795.0	100.0
0°-180°	26795.0	100.0

Coefficient of Utilization



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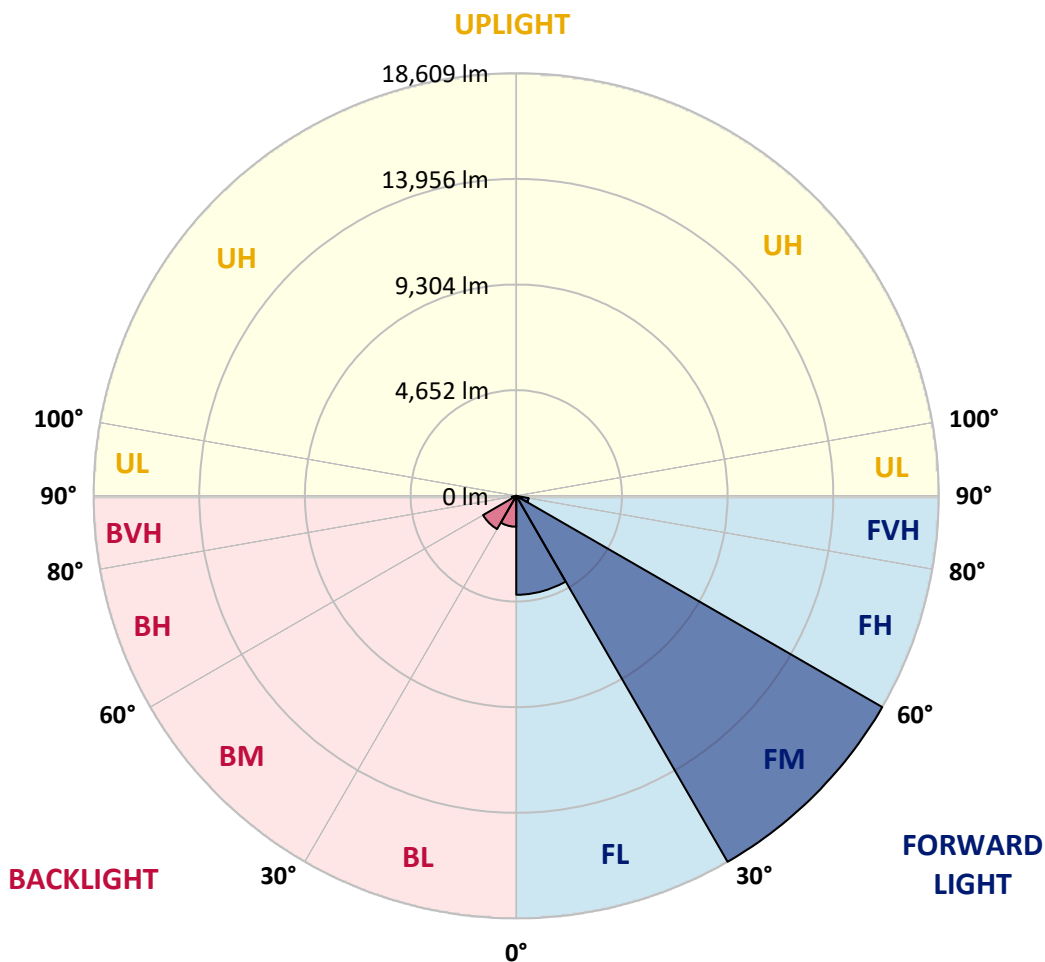
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4356.5	16.3			
FM (30°-60°)	18608.6	69.4			
FH (60°-80°)	554.0	2.1			G0/660
FVH (80°-90°)	13.4	0.1			G1/100
BL (0°-30°)	1362.9	5.1	B3/2500		
BM (30°-60°)	1688.0	6.3	B2/2500		
BH (60°-80°)	196.9	0.7	B1/500		G1/500
BVH (80°-90°)	14.8	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°	52°	55°	65°	75°	85°
0°	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0
2.5°	9378.5	9163.7	9183.2	9042.6	8960.6	8827.8	8648.1	8612.9	8417.6	8152.0	7882.5
5°	10222.2	10171.5	10237.9	10034.8	10042.5	9823.8	9402.0	9409.8	8960.6	8527.0	8109.1
7.5°	10277.0	10159.7	10226.1	10405.8	10511.3	10472.2	10234.0	10026.9	9601.1	8964.5	8355.2
10°	9202.8	9425.4	9495.7	9792.6	10214.4	10659.7	10632.4	10644.1	10288.6	9456.6	8566.0
12.5°	8558.3	8409.8	8648.1	8827.8	9464.4	10327.7	10722.2	10808.1	10835.5	9933.2	8777.0
15°	8265.3	8265.3	8304.3	8355.2	8816.0	9612.9	10417.5	10667.5	11257.3	10558.1	9109.0
17.5°	8448.9	8441.1	8495.7	8390.3	8562.2	9175.4	10136.3	10421.4	11730.0	11171.5	9370.7
20°	9007.5	9034.8	8999.6	8695.0	8706.6	9167.6	9823.8	10273.0	12050.3	11702.6	9718.4
22.5°	9784.8	9800.3	9601.1	9269.2	9171.5	9398.0	10003.5	10347.3	12308.1	12339.4	9823.8
25°	10683.2	10620.7	10581.6	10112.8	9816.0	10011.3	10409.8	10608.9	12468.3	12886.2	10124.6
27.5°	11929.2	11804.2	11565.9	11148.0	10929.3	10651.9	10937.0	11265.2	12925.2	13651.8	10452.7
30°	13769.0	13659.6	13194.8	12655.7	12081.5	11808.1	11897.9	12077.6	13749.4	14538.4	10886.3
32.5°	16538.4	16307.9	15636.0	14608.7	13827.5	13073.7	13050.3	13241.6	14487.7	15765.0	11401.9
35°	19589.0	19518.7	18530.5	17471.9	15960.3	14796.3	14815.8	14917.3	15901.7	17374.3	12077.6
37.5°	21616.3	22003.0	21374.1	20237.4	18967.9	17304.0	16882.1	16917.3	17843.0	19280.4	13296.4
40°	23182.7	22854.5	22928.7	22663.2	21796.0	20663.2	19729.6	19546.1	20089.0	21389.8	14507.2
42.5°	22499.1	22514.7	22971.7	23600.6	23815.4	23733.4	22780.3	22432.6	22010.8	23116.3	15659.5
45°	20569.5	20971.8	21565.5	23229.5	24690.4	26061.5	25873.9	25295.8	23338.9	24483.4	16323.5
47.5°	17491.4	17475.9	18448.5	20612.4	23858.4	27069.2	27920.8	27514.5	24280.3	24331.0	16186.8
48°	16354.8	16636.0	17639.9	20186.7	23331.1	26920.8	28104.3	27592.6	24120.1	24127.9	16069.7
50°	12089.4	12038.5	13288.5	16413.4	20839.0	25295.8	27330.9	27729.3	24116.2	23100.6	15249.4
52.5°	6386.5	6605.2	7515.3	10319.9	14733.8	20702.3	24108.4	24729.5	23264.7	21421.0	14069.7
55°	2714.7	2453.1	3152.2	4659.9	8288.8	13831.5	17686.8	19069.5	19671.1	18956.3	12308.1
57.5°	968.7	1058.5	1218.7	1753.8	3484.2	7570.0	10546.5	11620.6	13628.3	13909.6	8386.4
60°	621.1	632.8	683.6	804.7	1308.5	2917.8	5003.7	5859.1	6769.3	6988.0	3913.9
62.5°	480.4	484.4	507.8	527.4	621.1	1132.8	1878.8	2226.5	2312.4	1988.2	1027.3
65°	402.3	406.2	414.1	414.1	441.4	531.3	656.2	722.6	703.1	695.3	582.0
67.5°	308.6	316.4	332.0	332.0	347.7	324.2	363.2	386.7	437.5	531.3	496.1
70°	242.2	246.1	257.8	265.6	265.6	234.4	261.7	285.2	320.3	394.6	390.6
72.5°	187.5	195.3	203.1	203.1	191.4	160.1	187.5	207.0	230.4	273.4	265.6
75°	144.5	144.5	148.5	121.1	93.7	82.1	113.3	136.7	171.9	179.7	148.5
77.5°	39.1	43.0	39.1	35.2	39.1	58.6	74.2	85.9	109.4	109.4	97.6
80°	0.0	3.9	11.7	23.4	39.1	54.7	66.4	74.2	85.9	93.7	89.8
82.5°	0.0	3.9	11.7	23.4	35.2	43.0	58.6	62.5	70.3	82.1	82.1
85°	0.0	3.9	7.8	15.7	23.4	27.3	27.3	23.4	23.4	19.5	15.7
87.5°	0.0	0.0	3.9	7.8	7.8	11.7	11.7	11.7	11.7	11.7	11.7
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°	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0	7738.0
2.5°	7777.0	7655.9	7472.3	7183.3	6906.0	6726.3	6554.4	6363.0	6257.6	6249.7	6191.2
5°	7870.8	7597.4	7159.8	6663.8	6132.5	5675.6	5214.6	4913.9	4644.4	4495.9	4468.6
7.5°	7921.5	7566.1	6859.1	6027.1	5120.9	4374.9	3859.3	3480.4	3331.9	3222.5	3218.6
10°	8027.0	7511.4	6409.9	5183.4	4062.4	3308.5	2953.0	2781.1	2699.1	2667.8	2621.0
12.5°	8105.1	7409.8	5949.0	4316.2	3210.8	2742.1	2585.9	2546.8	2550.7	2566.3	2546.8
15°	8214.5	7320.0	5327.9	3542.8	2695.2	2468.6	2468.6	2476.5	2531.1	2539.0	2535.0
17.5°	8206.7	7144.2	4687.3	2917.8	2382.7	2351.4	2363.2	2437.4	2472.6	2484.3	2456.9
20°	8300.4	6980.2	4027.2	2492.1	2207.0	2253.8	2331.9	2351.4	2394.4	2402.2	2371.0
22.5°	8273.1	6570.1	3414.0	2156.1	2074.2	2164.0	2242.1	2265.5	2253.8	2230.4	2226.5
25°	8222.3	6218.5	2851.5	1933.5	1976.4	2074.2	2148.3	2105.4	2081.9	2085.8	2089.7
27.5°	8132.5	5773.2	2386.6	1777.3	1843.7	1988.2	1984.3	1968.7	1992.1	1972.6	1992.1
30°	8116.9	5327.9	2003.9	1636.6	1746.0	1851.5	1859.3	1886.6	1914.0	1878.8	1914.0
32.5°	8140.3	4839.6	1730.4	1550.7	1687.4	1691.4	1777.3	1804.6	1785.1	1706.9	1714.8
35°	8320.0	4464.7	1531.2	1503.8	1593.7	1597.6	1679.6	1644.5	1558.6	1511.7	1539.0
37.5°	8698.9	4152.2	1437.4	1460.8	1468.7	1519.5	1523.4	1453.1	1460.8	1457.0	1472.6
40°	9183.2	3913.9	1371.0	1421.8	1414.0	1449.2	1308.5	1347.6	1382.8	1394.4	1402.3
42.5°	9515.3	3742.0	1328.0	1359.3	1343.7	1281.2	1203.1	1242.2	1269.5	1312.5	1320.3
45°	9663.6	3605.3	1277.3	1250.0	1250.0	1136.7	1105.4	1113.3	1175.8	1222.6	1214.8
47.5°	9421.5	3472.5	1187.4	1105.4	1132.8	1039.0	1003.9	1003.9	1070.3	1128.9	1117.1
48°	9327.7	3417.8	1191.3	1074.2	1093.7	1023.4	988.2	980.4	1054.6	1109.4	1109.4
50°	8862.9	3214.7	1089.8	988.2	949.2	941.4	917.9	925.7	972.6	1023.4	1023.4
52.5°	7956.7	2777.2	921.8	847.6	777.3	824.2	835.9	820.3	843.7	890.6	886.7
55°	6640.4	2132.7	738.2	703.1	648.4	699.2	722.6	703.1	679.6	714.8	714.8
57.5°	4253.7	1148.4	589.8	597.7	542.9	593.7	613.2	566.3	523.4	550.8	546.8
60°	1917.9	687.5	484.4	472.6	437.5	496.1	527.4	472.6	414.1	433.5	453.1
62.5°	718.7	488.3	367.1	359.4	351.6	406.2	421.9	378.9	320.3	332.0	335.9
65°	527.4	429.6	292.9	265.6	281.3	320.3	312.5	269.5	230.4	230.4	238.3
67.5°	449.2	375.0	238.3	207.0	207.0	210.9	195.3	171.9	160.1	168.0	175.8
70°	351.6	296.8	187.5	160.1	144.5	128.9	113.3	109.4	97.6	109.4	105.5
72.5°	226.5	199.2	144.5	121.1	109.4	89.8	74.2	70.3	58.6	54.7	54.7
75°	121.1	121.1	113.3	97.6	85.9	70.3	58.6	46.9	31.2	23.4	23.4
77.5°	85.9	93.7	101.6	93.7	78.1	58.6	46.9	31.2	15.7	7.8	7.8
80°	82.1	93.7	101.6	89.8	78.1	58.6	43.0	23.4	11.7	3.9	3.9
82.5°	74.2	85.9	93.7	82.1	70.3	50.8	39.1	23.4	11.7	3.9	3.9
85°	15.7	19.5	23.4	23.4	27.3	35.2	27.3	19.5	7.8	3.9	3.9
87.5°	11.7	11.7	11.7	11.7	11.7	11.7	7.8	7.8	3.9	3.9	3.9
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)