

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: P532829

Luminaire Tested: **GALN-SA8B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532829
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-SA8B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA 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: 28666 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

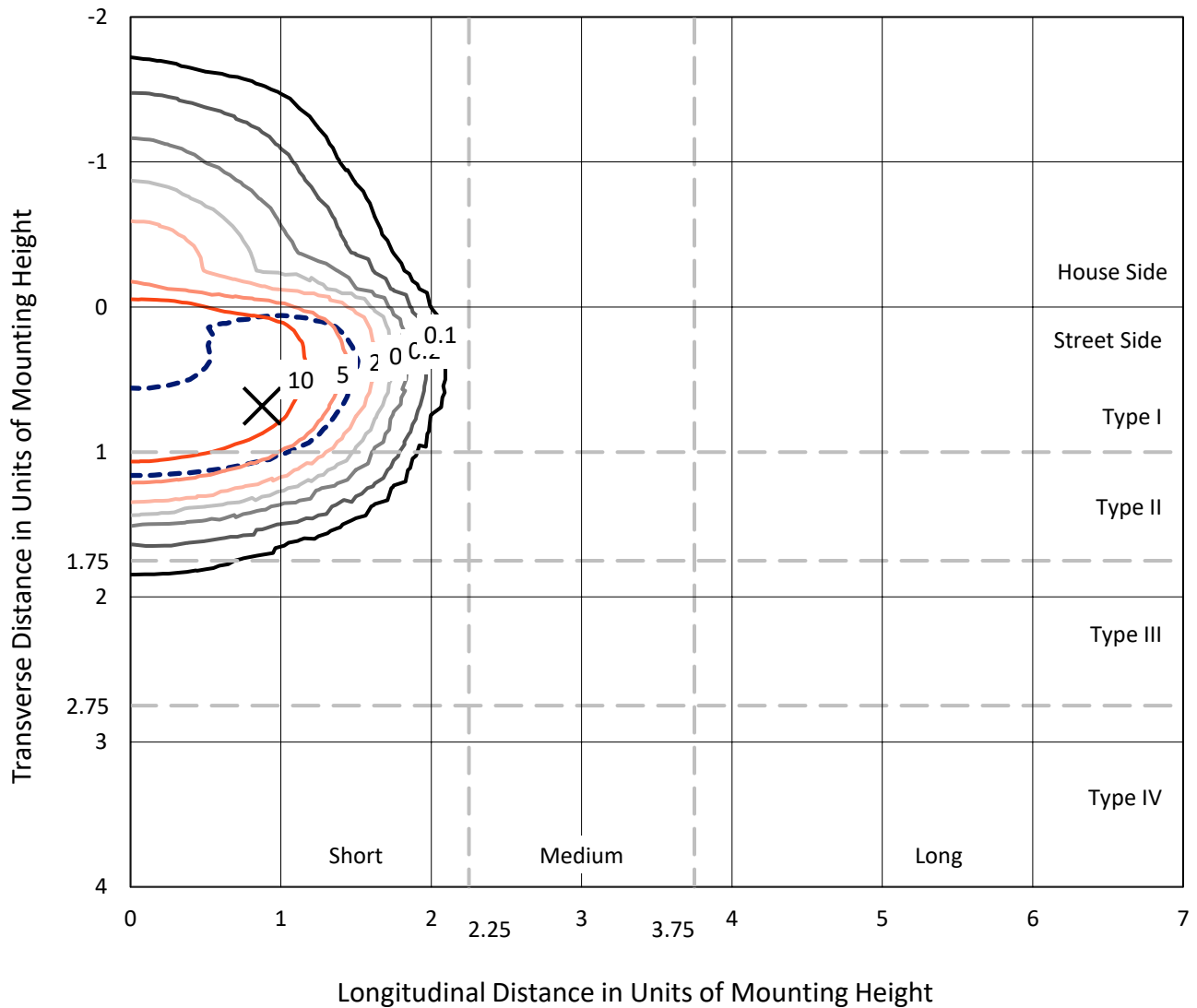
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

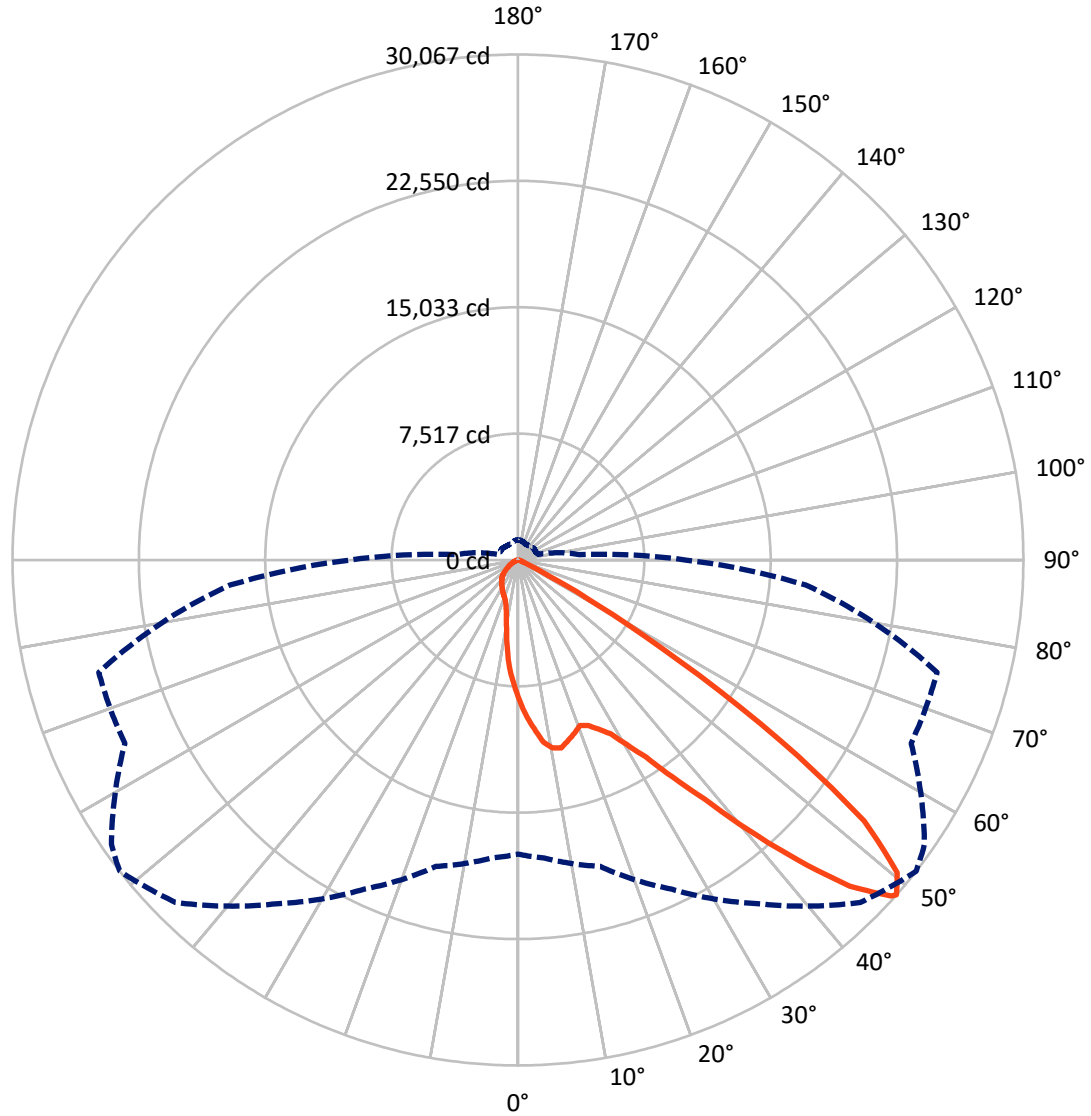
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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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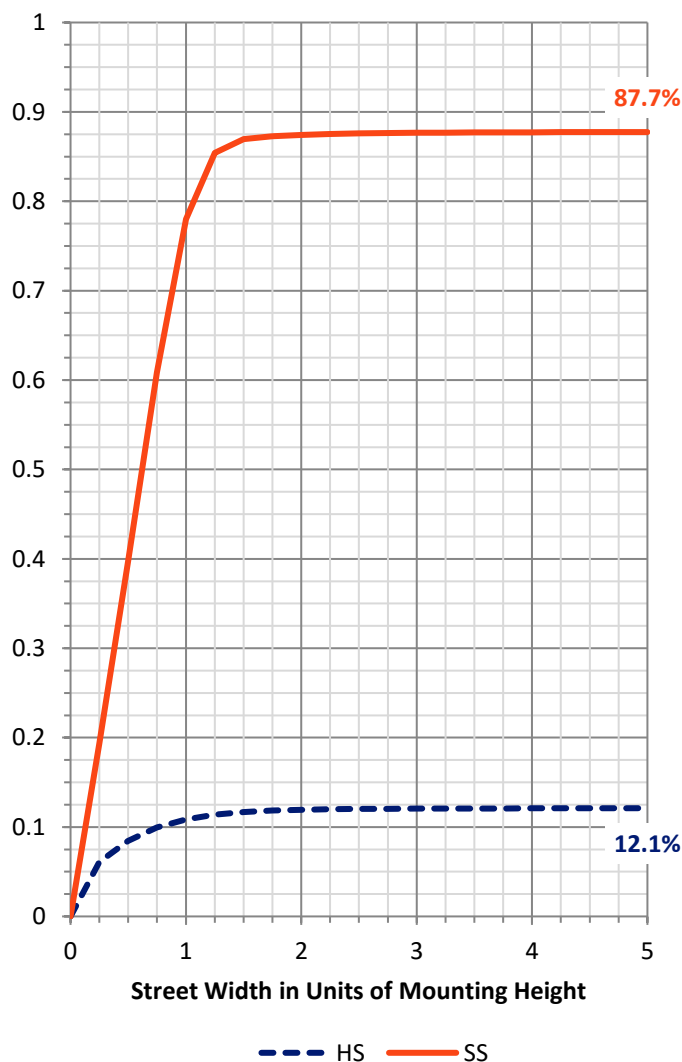
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3490.3	0.0	3490.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25175.7	0.0	25175.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	28666.0	0.0	28666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.7	2.6
10°-20°	1980.1	6.9
20°-30°	3380.9	11.8
30°-40°	6225.9	21.7
40°-50°	9668.9	33.7
50°-60°	5819.0	20.3
60°-70°	673.0	2.3
70°-80°	130.3	0.5
80°-90°	30.1	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°	28666.0	100.0
0°-180°	28666.0	100.0

Coefficient of Utilization

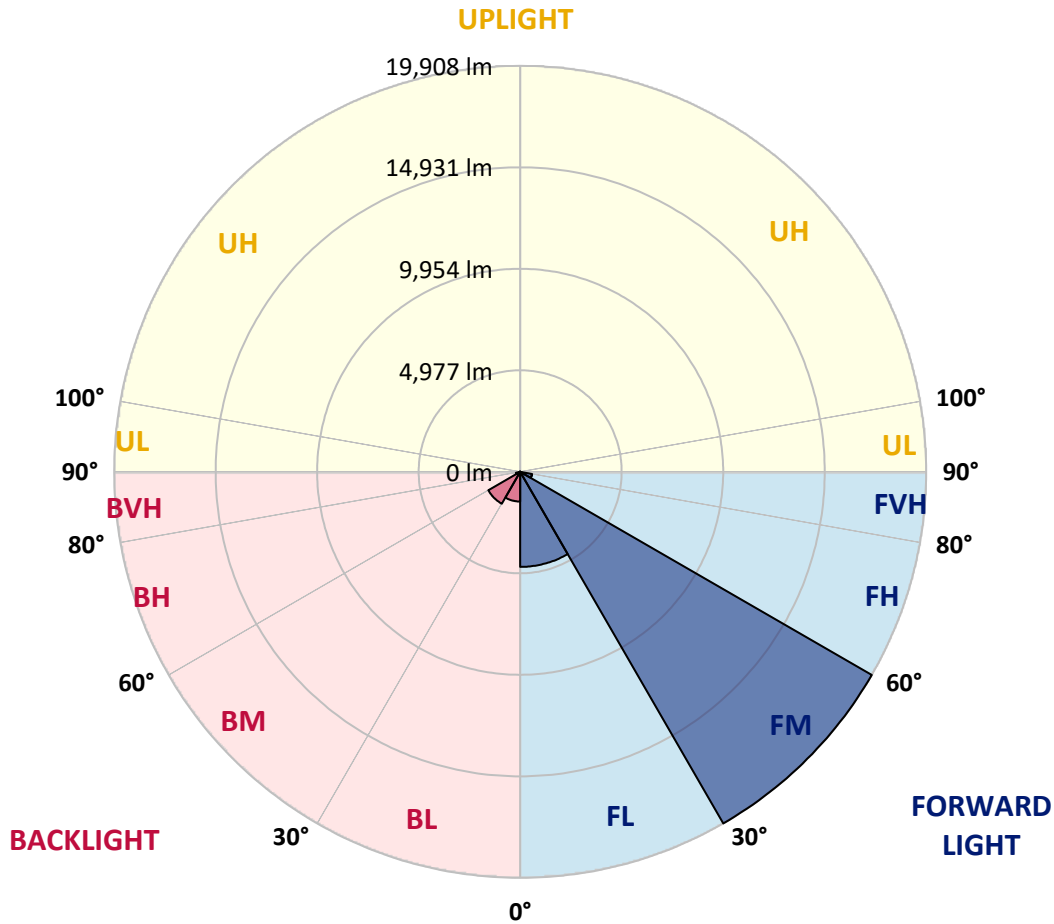


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4660.7	16.3			
FM (30°-60°)	19908.0	69.4			
FH (60°-80°)	592.7	2.1			G0/660
FVH (80°-90°)	14.3	0.1			G1/100
BL (0°-30°)	1458.0	5.1	B3/2500		
BM (30°-60°)	1805.8	6.3	B2/2500		
BH (60°-80°)	210.7	0.7	B1/500		G1/500
BVH (80°-90°)	15.8	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°	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3
2.5°	10033.4	9803.5	9824.4	9674.0	9586.2	9444.2	9251.9	9214.3	9005.4	8721.2	8432.9
5°	10936.0	10881.7	10952.7	10735.4	10743.8	10509.8	10058.4	10066.8	9586.2	9122.4	8675.3
7.5°	10994.5	10869.1	10940.2	11132.4	11245.2	11203.4	10948.5	10727.1	10271.6	9590.4	8938.5
10°	9845.3	10083.5	10158.7	10476.3	10927.6	11404.0	11374.8	11387.3	11007.0	10117.0	9164.2
12.5°	9155.8	8997.0	9251.9	9444.2	10125.3	11048.8	11470.9	11562.8	11592.1	10626.8	9389.8
15°	8842.4	8842.4	8884.2	8938.5	9431.6	10284.1	11144.9	11412.4	12043.4	11295.4	9745.0
17.5°	9038.8	9030.5	9089.0	8976.1	9160.0	9816.1	10844.1	11149.1	12549.0	11951.5	10025.0
20°	9636.4	9665.6	9628.0	9302.1	9314.6	9807.7	10509.8	10990.3	12891.7	12519.8	10396.9
22.5°	10468.0	10484.7	10271.6	9916.4	9811.9	10054.3	10702.0	11069.7	13167.5	13200.9	10509.8
25°	11429.1	11362.2	11320.5	10819.0	10501.4	10710.3	11136.6	11349.7	13338.8	13786.0	10831.5
27.5°	12762.2	12628.4	12373.5	11926.4	11692.4	11395.7	11700.7	12051.7	13827.8	14605.0	11182.6
30°	14730.4	14613.4	14116.1	13539.4	12925.1	12632.6	12728.7	12920.9	14709.5	15553.6	11646.4
32.5°	17693.2	17446.6	16727.9	15628.8	14793.1	13986.5	13961.5	14166.2	15499.3	16865.8	12198.0
35°	20956.8	20881.6	19824.4	18691.9	17074.7	15829.4	15850.3	15959.0	17012.0	18587.4	12920.9
37.5°	23125.7	23539.4	22866.6	21650.5	20292.4	18512.2	18060.9	18098.5	19088.9	20626.7	14224.7
40°	24801.4	24450.3	24529.7	24245.6	23317.9	22106.0	21107.3	20910.9	21491.7	22883.3	15520.2
42.5°	24070.1	24086.8	24575.7	25248.5	25478.3	25390.6	24370.9	23999.0	23547.7	24730.3	16752.9
45°	22005.7	22436.1	23071.3	24851.5	26414.4	27881.2	27680.6	27062.1	24968.5	26192.9	17463.3
47.5°	18712.8	18696.1	19736.6	22051.7	25524.3	28959.3	29870.3	29435.7	25975.6	26029.9	17317.1
48°	17496.8	17797.6	18871.6	21596.2	24960.2	28800.5	30066.7	29519.3	25804.3	25812.6	17191.7
50°	12933.5	12879.2	14216.4	17559.4	22294.1	27062.1	29239.3	29665.5	25800.1	24713.6	16314.2
52.5°	6832.4	7066.4	8040.1	11040.5	15762.6	22147.8	25791.7	26456.2	24889.1	22916.7	15052.2
55°	2904.3	2624.3	3372.3	4985.3	8867.5	14797.2	18921.7	20401.1	21044.6	20279.9	13167.5
57.5°	1036.4	1132.5	1303.8	1876.3	3727.5	8098.6	11282.8	12432.0	14579.9	14880.8	8972.0
60°	664.4	677.0	731.3	860.8	1399.9	3121.6	5353.1	6268.2	7241.9	7475.9	4187.2
62.5°	514.0	518.2	543.2	564.1	664.4	1211.9	2010.0	2381.9	2473.9	2127.0	1099.0
65°	430.4	434.6	443.0	443.0	472.2	568.3	702.0	773.1	752.2	743.8	622.6
67.5°	330.1	338.5	355.2	355.2	371.9	346.8	388.6	413.7	468.0	568.3	530.7
70°	259.1	263.3	275.8	284.2	284.2	250.7	280.0	305.1	342.7	422.1	417.9
72.5°	200.6	208.9	217.3	217.3	204.8	171.3	200.6	221.5	246.6	292.5	284.2
75°	154.6	154.6	158.8	129.5	100.3	87.8	121.2	146.3	183.9	192.2	158.8
77.5°	41.8	46.0	41.8	37.6	41.8	62.7	79.4	91.9	117.0	117.0	104.5
80°	0.0	4.2	12.5	25.1	41.8	58.5	71.0	79.4	91.9	100.3	96.1
82.5°	0.0	4.2	12.5	25.1	37.6	46.0	62.7	66.9	75.2	87.8	87.8
85°	0.0	4.2	8.4	16.7	25.1	29.3	29.3	25.1	25.1	20.9	16.7
87.5°	0.0	0.0	4.2	8.4	8.4	12.5	12.5	12.5	12.5	12.5	12.5
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°	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3	8278.3
2.5°	8320.1	8190.5	7994.1	7684.9	7388.2	7195.9	7012.1	6807.3	6694.5	6686.1	6623.4
5°	8420.3	8127.8	7659.8	7129.1	6560.8	6071.8	5578.7	5257.0	4968.6	4809.8	4780.6
7.5°	8474.7	8094.4	7338.0	6447.9	5478.4	4680.3	4128.7	3723.3	3564.5	3447.5	3443.4
10°	8587.5	8035.9	6857.5	5545.3	4346.0	3539.5	3159.2	2975.3	2887.6	2854.1	2804.0
12.5°	8671.1	7927.2	6364.4	4617.6	3435.0	2933.5	2766.4	2724.6	2728.8	2745.5	2724.6
15°	8788.1	7831.1	5699.9	3790.2	2883.4	2641.0	2641.0	2649.4	2707.9	2716.2	2712.1
17.5°	8779.7	7643.1	5014.6	3121.6	2549.1	2515.7	2528.2	2607.6	2645.2	2657.7	2628.5
20°	8880.0	7467.6	4308.4	2666.1	2361.0	2411.2	2494.8	2515.7	2561.6	2570.0	2536.6
22.5°	8850.8	7028.8	3652.3	2306.7	2219.0	2315.1	2398.6	2423.7	2411.2	2386.1	2381.9
25°	8796.4	6652.7	3050.5	2068.5	2114.5	2219.0	2298.4	2252.4	2227.3	2231.5	2235.7
27.5°	8700.3	6176.3	2553.3	1901.4	1972.4	2127.0	2122.8	2106.1	2131.2	2110.3	2131.2
30°	8683.6	5699.9	2143.7	1750.9	1867.9	1980.8	1989.1	2018.4	2047.6	2010.0	2047.6
32.5°	8708.7	5177.6	1851.2	1659.0	1805.3	1809.4	1901.4	1930.6	1909.7	1826.1	1834.5
35°	8900.9	4776.4	1638.1	1608.9	1705.0	1709.1	1796.9	1759.3	1667.4	1617.2	1646.5
37.5°	9306.3	4442.1	1537.8	1562.9	1571.2	1625.6	1629.7	1554.5	1562.9	1558.7	1575.4
40°	9824.4	4187.2	1466.8	1521.1	1512.7	1550.3	1399.9	1441.7	1479.3	1491.8	1500.2
42.5°	10179.6	4003.3	1420.8	1454.2	1437.5	1370.7	1287.1	1328.9	1358.1	1404.1	1412.4
45°	10338.4	3857.1	1366.5	1337.2	1337.2	1216.0	1182.6	1191.0	1257.8	1308.0	1299.6
47.5°	10079.3	3715.0	1270.4	1182.6	1211.9	1111.6	1074.0	1074.0	1145.0	1207.7	1195.1
48°	9979.0	3656.5	1274.5	1149.2	1170.1	1094.9	1057.2	1048.9	1128.3	1186.8	1186.8
50°	9481.8	3439.2	1165.9	1057.2	1015.5	1007.1	982.0	990.4	1040.5	1094.9	1094.9
52.5°	8512.3	2971.1	986.2	906.8	831.6	881.7	894.3	877.6	902.6	952.8	948.6
55°	7104.0	2281.6	789.8	752.2	693.7	748.0	773.1	752.2	727.1	764.7	764.7
57.5°	4550.7	1228.6	631.0	639.4	580.9	635.2	656.1	605.9	560.0	589.2	585.0
60°	2051.8	735.5	518.2	505.6	468.0	530.7	564.1	505.6	443.0	463.9	484.7
62.5°	768.9	522.4	392.8	384.5	376.1	434.6	451.3	405.3	342.7	355.2	359.4
65°	564.1	459.7	313.4	284.2	300.9	342.7	334.3	288.3	246.6	246.6	254.9
67.5°	480.6	401.2	254.9	221.5	221.5	225.7	208.9	183.9	171.3	179.7	188.0
70°	376.1	317.6	200.6	171.3	154.6	137.9	121.2	117.0	104.5	117.0	112.8
72.5°	242.4	213.1	154.6	129.5	117.0	96.1	79.4	75.2	62.7	58.5	58.5
75°	129.5	129.5	121.2	104.5	91.9	75.2	62.7	50.1	33.4	25.1	25.1
77.5°	91.9	100.3	108.6	100.3	83.6	62.7	50.1	33.4	16.7	8.4	8.4
80°	87.8	100.3	108.6	96.1	83.6	62.7	46.0	25.1	12.5	4.2	4.2
82.5°	79.4	91.9	100.3	87.8	75.2	54.3	41.8	25.1	12.5	4.2	4.2
85°	16.7	20.9	25.1	25.1	29.3	37.6	29.3	20.9	8.4	4.2	4.2
87.5°	12.5	12.5	12.5	12.5	12.5	12.5	8.4	8.4	4.2	4.2	4.2
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)