

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: P532283

Luminaire Tested: **GALN-SA7C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532283
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-SA7C-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 26853 lumens
Efficiency: N/A
Efficacy: 71.2 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

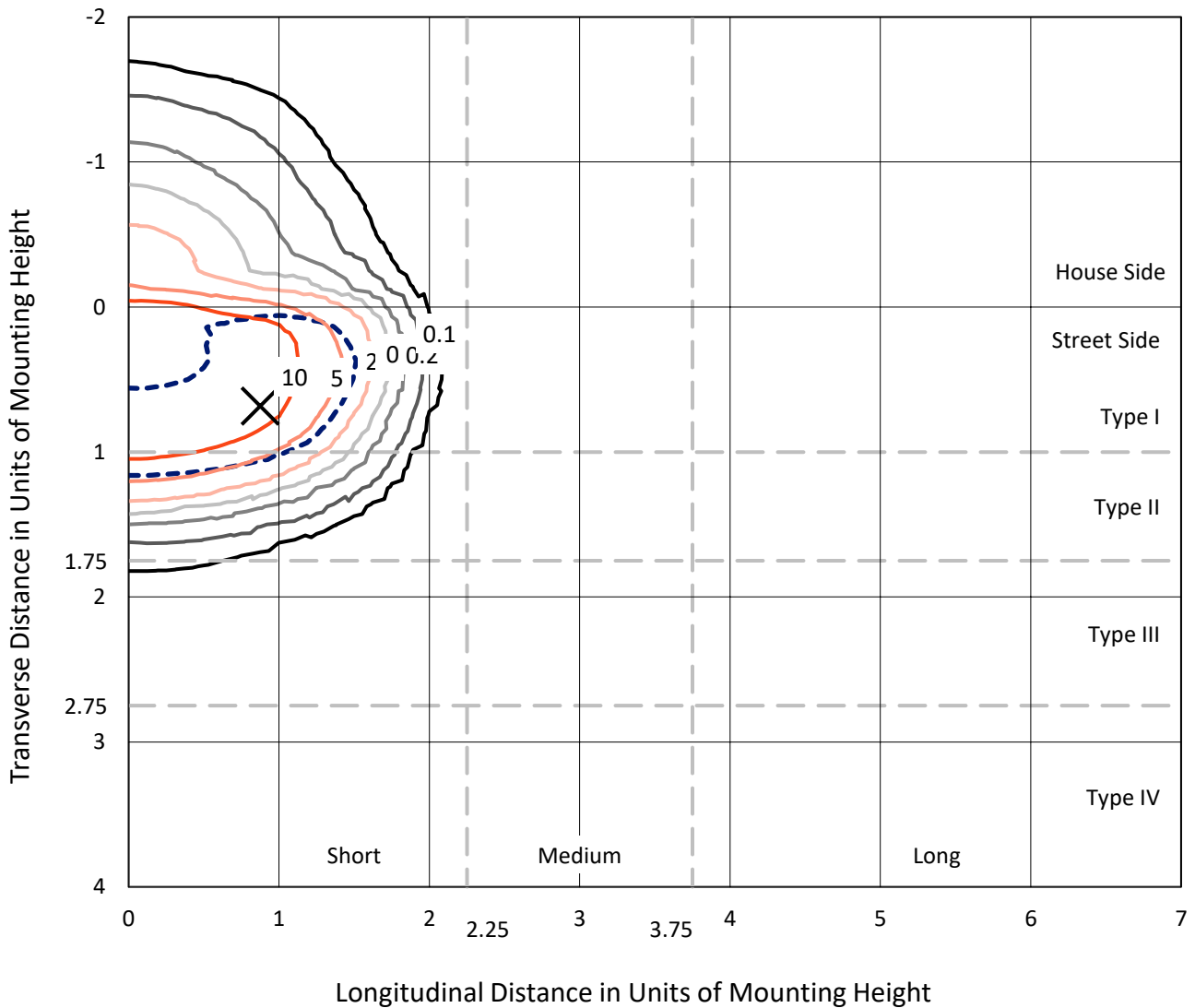
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532283
 CATALOG NUMBER: GALN-SA7C-827-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

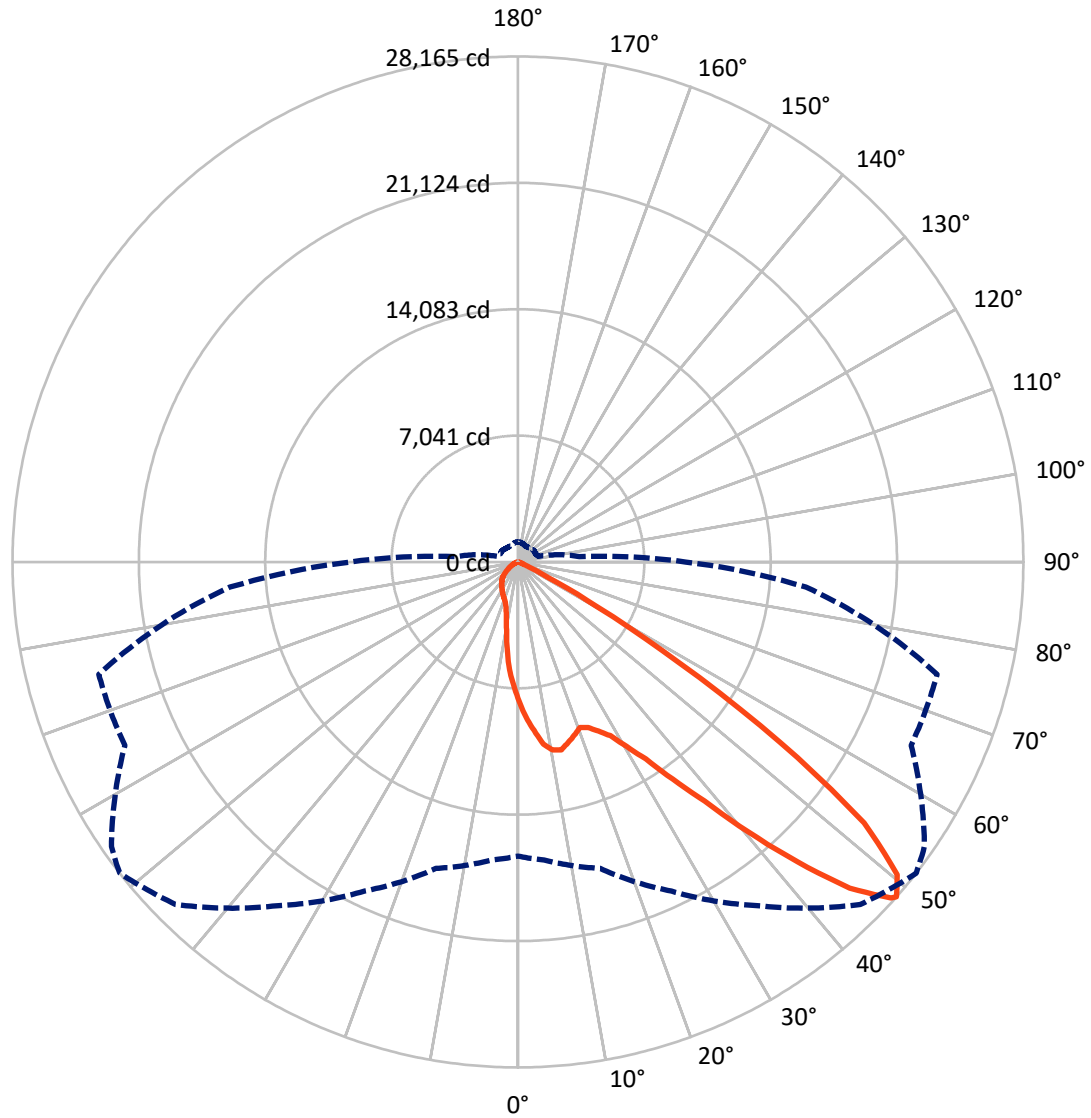
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

REPORT NUMBER: P532283
CATALOG NUMBER: GALN-SA7C-827-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7C-827-U-AFL-GRSBK

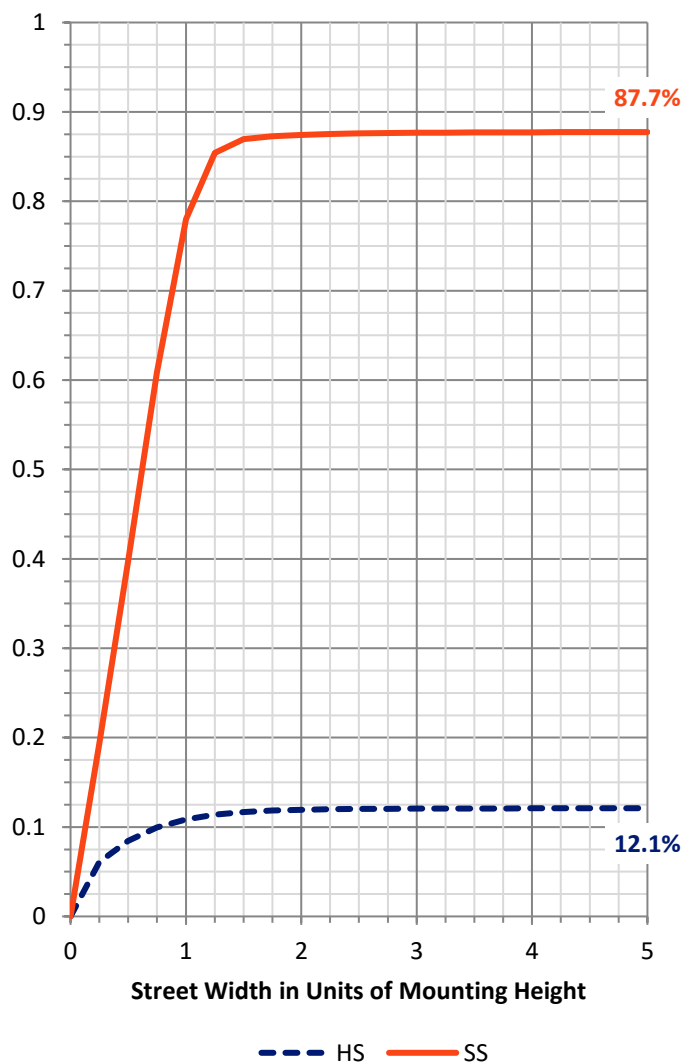
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3269.6	0.0	3269.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23583.4	0.0	23583.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	26853.0	0.0	26853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.8	2.6
10°-20°	1854.9	6.9
20°-30°	3167.1	11.8
30°-40°	5832.2	21.7
40°-50°	9057.4	33.7
50°-60°	5451.0	20.3
60°-70°	630.5	2.3
70°-80°	122.0	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°	26853.0	100.0
0°-180°	26853.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532283

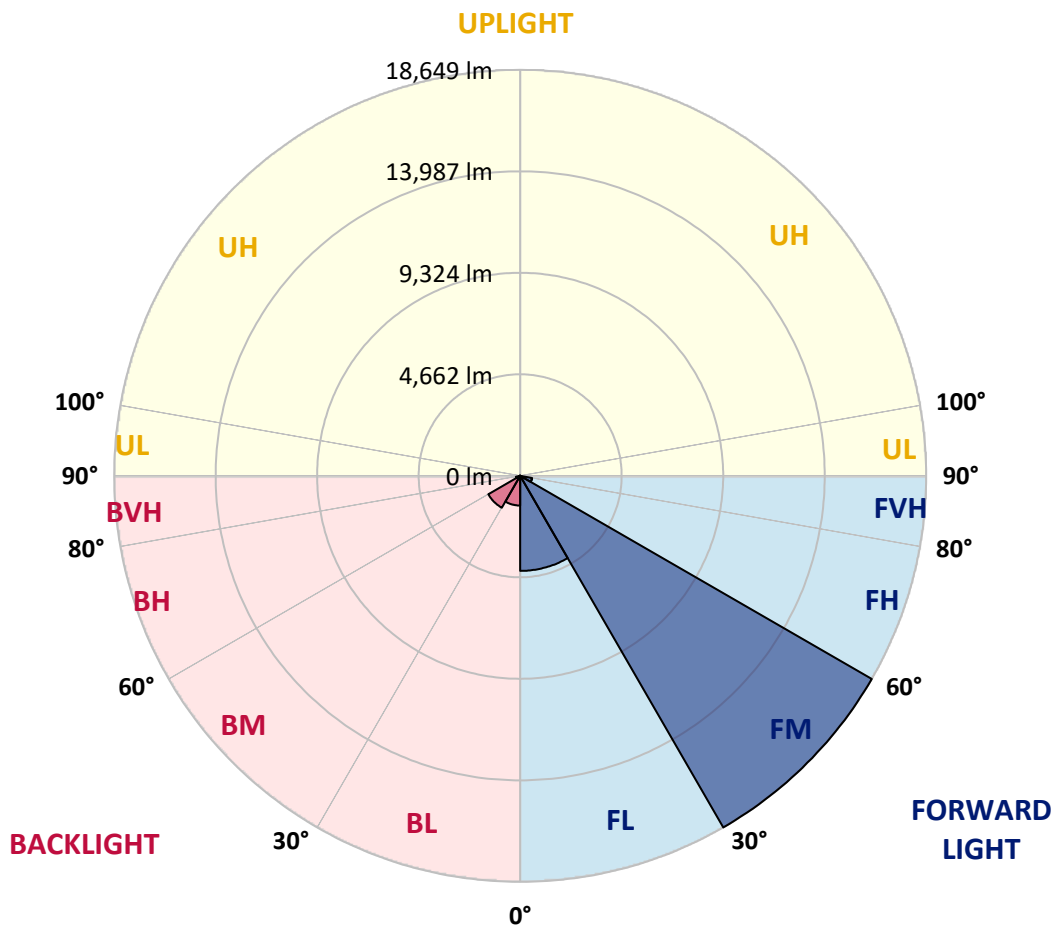
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4366.0	16.3			
FM (30°-60°)	18648.9	69.4			
FH (60°-80°)	555.2	2.1			G0/660
FVH (80°-90°)	13.4	0.0			G1/100
BL (0°-30°)	1365.8	5.1	B3/2500		
BM (30°-60°)	1691.6	6.3	B2/2500		
BH (60°-80°)	197.3	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





REPORT NUMBER: P532283

CATALOG NUMBER: GALN-SA7C-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7
2.5°	9398.8	9183.5	9203.1	9062.2	8980.0	8846.9	8666.8	8631.6	8435.8	8169.6	7899.5
5°	10244.3	10193.5	10260.0	10056.4	10064.3	9845.1	9422.3	9430.1	8980.0	8545.4	8126.6
7.5°	10299.2	10181.7	10248.3	10428.3	10534.0	10494.9	10256.1	10048.6	9621.9	8983.9	8373.2
10°	9222.7	9445.8	9516.2	9813.7	10236.5	10682.8	10655.4	10667.1	10310.9	9477.1	8584.6
12.5°	8576.8	8428.0	8666.8	8846.9	9484.9	10350.0	10745.4	10831.5	10858.9	9954.7	8796.0
15°	8283.2	8283.2	8322.3	8373.2	8835.1	9633.7	10440.1	10690.6	11281.7	10581.0	9128.7
17.5°	8467.1	8459.3	8514.1	8408.4	8580.7	9195.3	10158.2	10444.0	11755.4	11195.6	9391.0
20°	9026.9	9054.3	9019.1	8713.8	8725.5	9187.4	9845.1	10295.2	12076.4	11728.0	9739.4
22.5°	9805.9	9821.6	9621.9	9289.2	9191.3	9418.4	10025.1	10369.6	12334.7	12366.0	9845.1
25°	10706.3	10643.6	10604.5	10134.7	9837.2	10033.0	10432.2	10631.9	12495.2	12914.1	10146.5
27.5°	11955.0	11829.7	11590.9	11172.1	10952.9	10674.9	10960.7	11289.5	12953.2	13681.3	10475.3
30°	13798.7	13689.1	13223.3	12683.1	12107.7	11833.6	11923.7	12103.8	13779.2	14569.9	10909.8
32.5°	16574.2	16343.2	15669.9	14640.4	13857.5	13102.0	13078.5	13270.3	14519.0	15799.1	11426.5
35°	19631.4	19560.9	18570.6	17509.7	15994.8	14828.3	14847.8	14949.6	15936.1	17411.9	12103.8
37.5°	21663.1	22050.6	21420.4	20281.2	19009.0	17341.4	16918.6	16953.9	17881.6	19322.2	13325.1
40°	23232.8	22904.0	22978.3	22712.2	21843.1	20707.9	19772.3	19588.3	20132.5	21436.0	14538.6
42.5°	22547.7	22563.4	23021.4	23651.6	23866.9	23784.7	22829.6	22481.2	22058.4	23166.2	15693.4
45°	20614.0	21017.2	21612.2	23279.8	24743.8	26117.8	25929.9	25350.6	23389.4	24536.3	16358.9
47.5°	17529.3	17513.6	18488.4	20657.0	23910.0	27127.8	27981.1	27574.0	24332.8	24383.7	16221.8
48°	16390.2	16672.0	17678.1	20230.3	23381.5	26979.0	28165.1	27652.3	24172.3	24180.1	16104.4
50°	12115.5	12064.6	13317.3	16448.9	20884.1	25350.6	27390.0	27789.3	24168.4	23150.6	15282.4
52.5°	6400.3	6619.5	7531.6	10342.2	14765.6	20747.1	24160.5	24782.9	23315.0	21467.3	14100.2
55°	2720.6	2458.3	3159.0	4670.0	8306.7	13861.4	17725.0	19110.8	19713.6	18997.3	12334.7
57.5°	970.8	1060.8	1221.3	1757.6	3491.8	7586.4	10569.3	11645.8	13657.8	13939.7	8404.5
60°	622.4	634.2	685.0	806.4	1311.4	2924.2	5014.5	5871.8	6783.9	7003.1	3922.4
62.5°	481.5	485.4	508.9	528.5	622.4	1135.2	1882.9	2231.3	2317.4	1992.5	1029.5
65°	403.2	407.1	414.9	414.9	442.3	532.4	657.6	724.2	704.6	696.8	583.3
67.5°	309.2	317.1	332.7	332.7	348.4	324.9	364.1	387.5	438.4	532.4	497.1
70°	242.7	246.6	258.4	266.2	266.2	234.9	262.3	285.8	321.0	395.4	391.5
72.5°	187.9	195.7	203.6	203.6	191.8	160.5	187.9	207.5	231.0	274.0	266.2
75°	144.8	144.8	148.8	121.4	93.9	82.2	113.5	137.0	172.2	180.1	148.8
77.5°	39.1	43.1	39.1	35.2	39.1	58.7	74.4	86.1	109.6	109.6	97.9
80°	0.0	3.9	11.7	23.5	39.1	54.8	66.5	74.4	86.1	93.9	90.0
82.5°	0.0	3.9	11.7	23.5	35.2	43.1	58.7	62.6	70.5	82.2	82.2
85°	0.0	3.9	7.8	15.7	23.5	27.4	27.4	23.5	23.5	19.6	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



REPORT NUMBER: P532283

CATALOG NUMBER: GALN-SA7C-827-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7	7754.7
2.5°	7793.8	7672.5	7488.5	7198.8	6920.9	6740.8	6568.6	6376.8	6271.1	6263.3	6204.5
5°	7887.8	7613.8	7175.3	6678.2	6145.8	5687.8	5225.9	4924.5	4654.4	4505.6	4478.2
7.5°	7938.7	7582.5	6873.9	6040.1	5132.0	4384.3	3867.6	3487.9	3339.1	3229.5	3225.6
10°	8044.4	7527.7	6423.8	5194.6	4071.1	3315.6	2959.4	2787.2	2704.9	2673.6	2626.7
12.5°	8122.7	7425.9	5961.8	4325.6	3217.8	2748.0	2591.4	2552.3	2556.2	2571.9	2552.3
15°	8232.3	7335.8	5339.4	3550.5	2701.0	2474.0	2474.0	2481.8	2536.6	2544.4	2540.5
17.5°	8224.4	7159.7	4697.4	2924.2	2387.9	2356.6	2368.3	2442.7	2477.9	2489.6	2462.2
20°	8318.4	6995.3	4035.9	2497.5	2211.7	2258.7	2337.0	2356.6	2399.6	2407.4	2376.1
22.5°	8291.0	6584.3	3421.3	2160.8	2078.6	2168.7	2246.9	2270.4	2258.7	2235.2	2231.3
25°	8240.1	6231.9	2857.6	1937.7	1980.8	2078.6	2153.0	2109.9	2086.4	2090.4	2094.3
27.5°	8150.1	5785.7	2391.8	1781.1	1847.7	1992.5	1988.6	1972.9	1996.4	1976.8	1996.4
30°	8134.4	5339.4	2008.2	1640.2	1749.8	1855.5	1863.3	1890.7	1918.1	1882.9	1918.1
32.5°	8157.9	4850.1	1734.1	1554.1	1691.1	1695.0	1781.1	1808.5	1788.9	1710.7	1718.5
35°	8338.0	4474.3	1534.5	1507.1	1597.1	1601.0	1683.3	1648.0	1561.9	1514.9	1542.3
37.5°	8717.7	4161.2	1440.6	1464.0	1471.9	1522.8	1526.7	1456.2	1464.0	1460.1	1475.8
40°	9203.1	3922.4	1374.0	1424.9	1417.1	1452.3	1311.4	1350.5	1385.7	1397.5	1405.3
42.5°	9535.8	3750.1	1330.9	1362.3	1346.6	1284.0	1205.7	1244.8	1272.2	1315.3	1323.1
45°	9684.6	3613.1	1280.1	1252.7	1252.7	1139.1	1107.8	1115.6	1178.3	1225.3	1217.4
47.5°	9441.9	3480.0	1190.0	1107.8	1135.2	1041.3	1006.0	1006.0	1072.6	1131.3	1119.6
48°	9347.9	3425.2	1193.9	1076.5	1096.1	1025.6	990.4	982.5	1056.9	1111.7	1111.7
50°	8882.1	3221.7	1092.2	990.4	951.2	943.4	919.9	927.7	974.7	1025.6	1025.6
52.5°	7973.9	2783.2	923.8	849.5	779.0	826.0	837.7	822.1	845.5	892.5	888.6
55°	6654.7	2137.3	739.8	704.6	649.8	700.7	724.2	704.6	681.1	716.4	716.4
57.5°	4262.9	1150.9	591.1	598.9	544.1	595.0	614.6	567.6	524.5	551.9	548.0
60°	1922.0	689.0	485.4	473.7	438.4	497.1	528.5	473.7	414.9	434.5	454.1
62.5°	720.3	489.3	368.0	360.1	352.3	407.1	422.8	379.7	321.0	332.7	336.7
65°	528.5	430.6	293.6	266.2	281.8	321.0	313.2	270.1	231.0	231.0	238.8
67.5°	450.2	375.8	238.8	207.5	207.5	211.4	195.7	172.2	160.5	168.3	176.2
70°	352.3	297.5	187.9	160.5	144.8	129.2	113.5	109.6	97.9	109.6	105.7
72.5°	227.0	199.6	144.8	121.4	109.6	90.0	74.4	70.5	58.7	54.8	54.8
75°	121.4	121.4	113.5	97.9	86.1	70.5	58.7	47.0	31.3	23.5	23.5
77.5°	86.1	93.9	101.8	93.9	78.3	58.7	47.0	31.3	15.7	7.8	7.8
80°	82.2	93.9	101.8	90.0	78.3	58.7	43.1	23.5	11.7	3.9	3.9
82.5°	74.4	86.1	93.9	82.2	70.5	50.9	39.1	23.5	11.7	3.9	3.9
85°	15.7	19.6	23.5	23.5	27.4	35.2	27.4	19.6	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)