

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: P533713

Luminaire Tested: **GALN-SA9A-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533713
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-SA9A-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 24576 lumens
Efficiency: N/A
Efficacy: 89.7 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

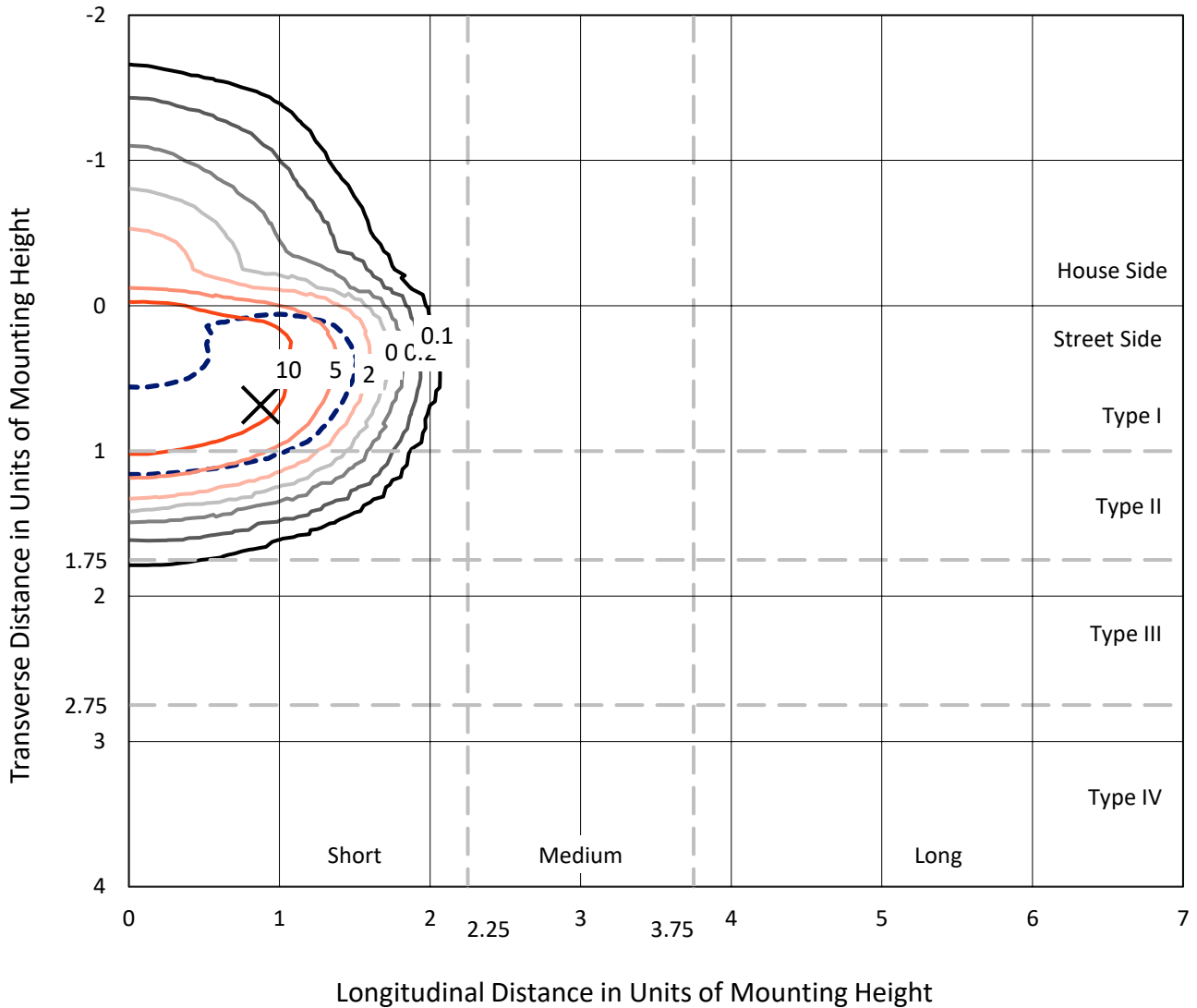
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533713
 CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

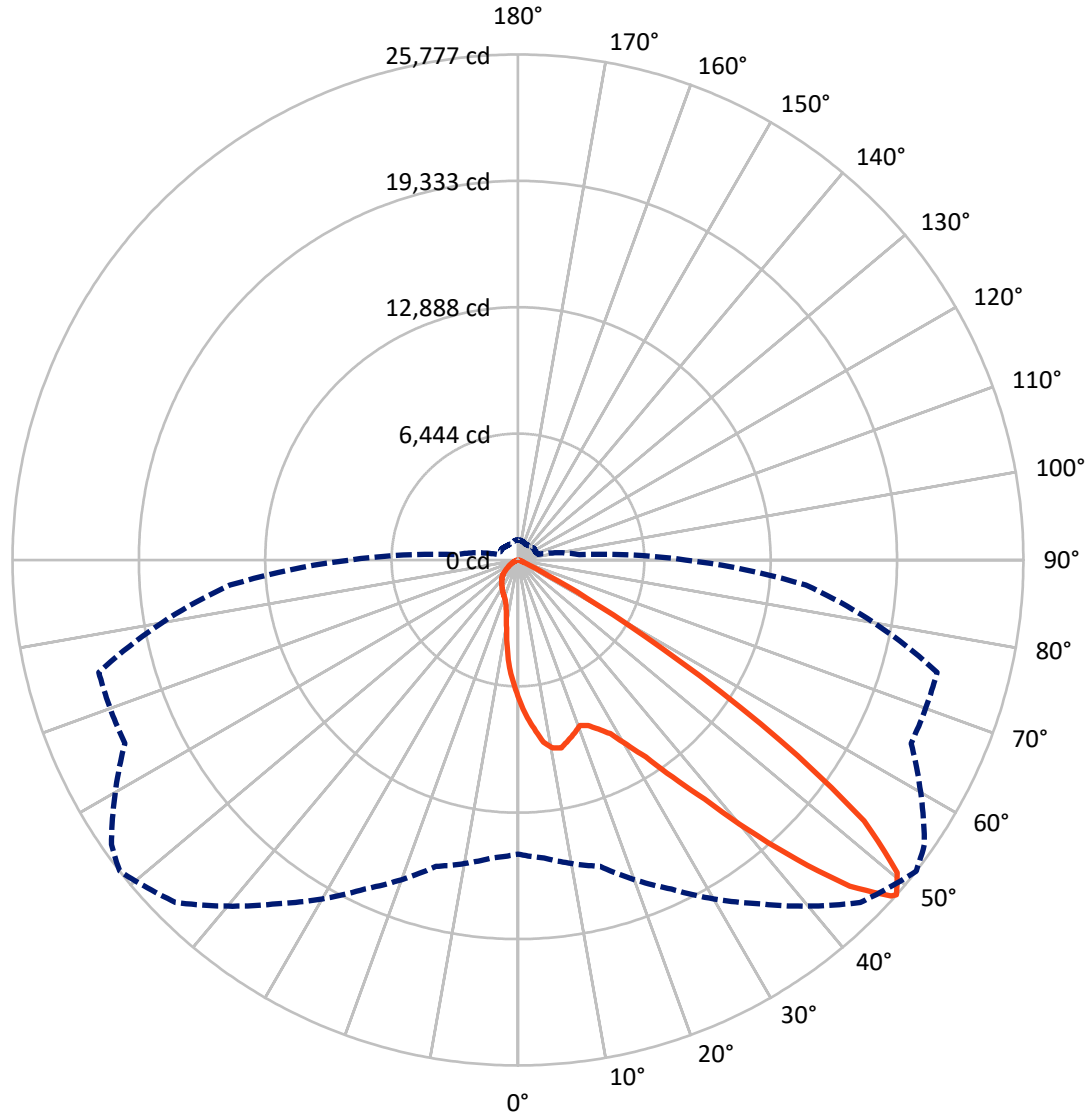
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P533713
CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P533713
 CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

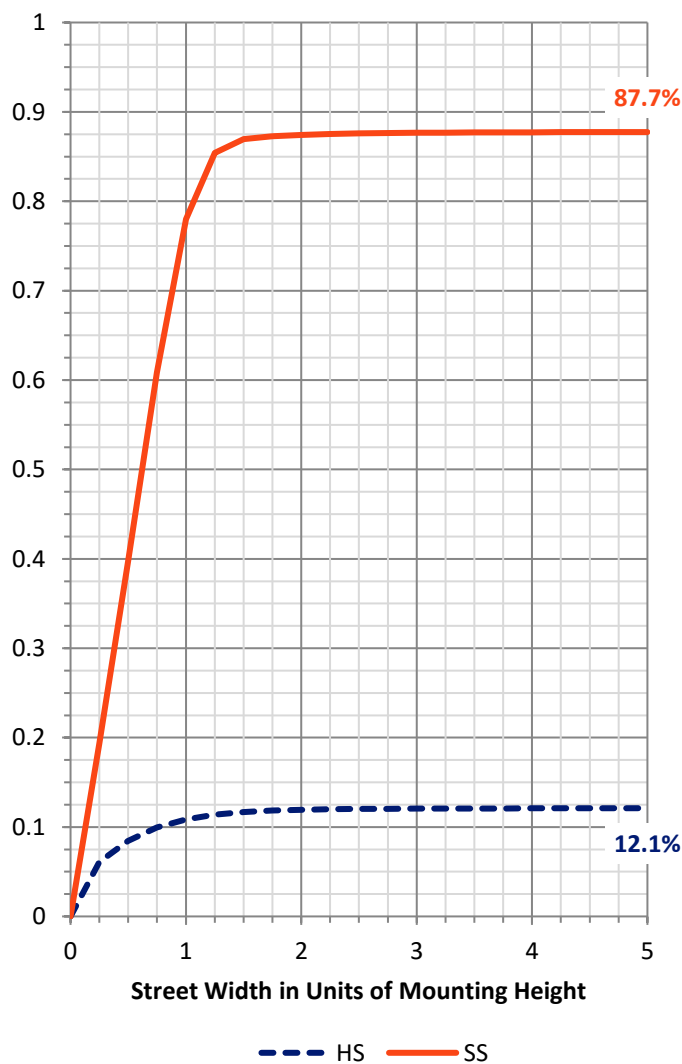
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2992.3	0.0	2992.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21583.7	0.0	21583.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	24576.0	0.0	24576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.6	2.6
10°-20°	1697.6	6.9
20°-30°	2898.5	11.8
30°-40°	5337.6	21.7
40°-50°	8289.3	33.7
50°-60°	4988.8	20.3
60°-70°	577.0	2.3
70°-80°	111.7	0.5
80°-90°	25.8	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°	24576.0	100.0
0°-180°	24576.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533713

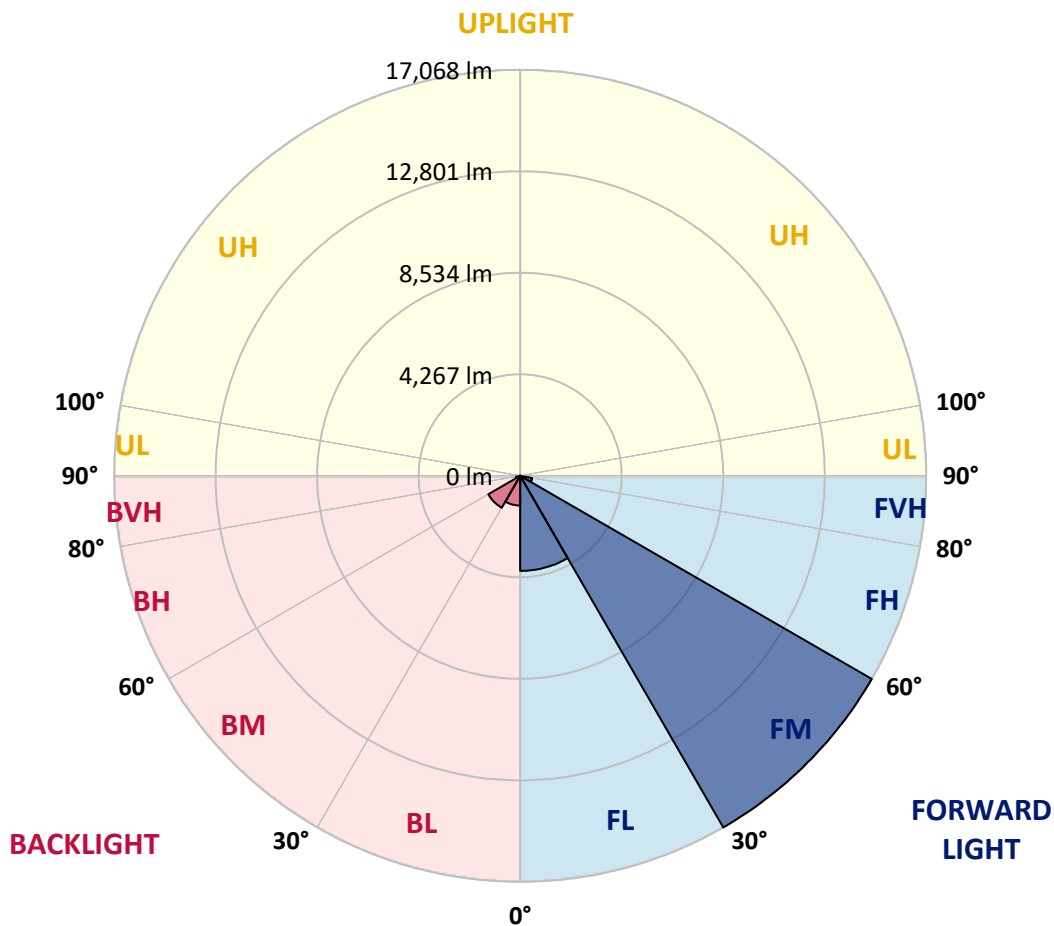
CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3995.7	16.3			
FM (30°-60°)	17067.6	69.4			
FH (60°-80°)	508.1	2.1			G0/660
FVH (80°-90°)	12.3	0.0			G1/100
BL (0°-30°)	1250.0	5.1	B3/2500		
BM (30°-60°)	1548.2	6.3	B2/2500		
BH (60°-80°)	180.6	0.7	B1/500		G1/500
BVH (80°-90°)	13.5	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: P533713

CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1
2.5°	8601.8	8404.8	8422.7	8293.7	8218.5	8096.7	7931.9	7899.6	7720.5	7476.9	7229.7
5°	9375.7	9329.1	9390.0	9203.7	9210.9	9010.3	8623.3	8630.5	8218.5	7820.8	7437.5
7.5°	9425.8	9318.4	9379.3	9544.1	9640.8	9605.0	9386.4	9196.5	8806.0	8222.1	7663.2
10°	8440.6	8644.8	8709.3	8981.6	9368.5	9776.9	9751.9	9762.6	9436.6	8673.5	7856.7
12.5°	7849.5	7713.3	7931.9	8096.7	8680.7	9472.4	9834.3	9913.1	9938.1	9110.6	8050.1
15°	7580.8	7580.8	7616.6	7663.2	8085.9	8816.8	9554.8	9784.1	10325.1	9683.8	8354.6
17.5°	7749.2	7742.0	7792.2	7695.4	7853.1	8415.5	9296.9	9558.4	10758.6	10246.3	8594.7
20°	8261.5	8286.6	8254.3	7974.9	7985.6	8408.4	9010.3	9422.3	11052.3	10733.5	8913.5
22.5°	8974.4	8988.8	8806.0	8501.5	8412.0	8619.7	9175.1	9490.3	11288.8	11317.4	9010.3
25°	9798.4	9741.1	9705.3	9275.4	9003.1	9182.2	9547.6	9730.4	11435.7	11819.0	9286.1
27.5°	10941.3	10826.6	10608.1	10224.8	10024.1	9769.8	10031.3	10332.2	11854.8	12521.2	9587.1
30°	12628.7	12528.4	12102.0	11607.6	11081.0	10830.2	10912.6	11077.4	12610.8	13334.5	9984.7
32.5°	15168.7	14957.4	14341.2	13398.9	12682.4	11991.0	11969.5	12145.0	13287.9	14459.4	10457.6
35°	17966.8	17902.3	16995.9	16025.0	14638.5	13570.9	13588.8	13682.0	14584.8	15935.4	11077.4
37.5°	19826.1	20180.8	19604.0	18561.5	17397.1	15870.9	15484.0	15516.3	16365.3	17683.7	12195.2
40°	21262.8	20961.8	21029.9	20786.3	19990.9	18952.0	18095.7	17927.4	18425.3	19618.3	13305.8
42.5°	20635.8	20650.1	21069.3	21646.1	21843.1	21767.9	20893.8	20574.9	20188.0	21201.9	14362.7
45°	18866.0	19235.0	19779.6	21305.8	22645.6	23903.1	23731.2	23201.0	21406.1	22455.8	14971.7
47.5°	16042.9	16028.6	16920.6	18905.4	21882.6	24827.5	25608.5	25235.9	22269.5	22316.0	14846.3
48°	15000.4	15258.3	16179.0	18514.9	21398.9	24691.3	25776.8	25307.5	22122.6	22129.8	14738.8
50°	11088.2	11041.6	12188.0	15054.1	19113.2	23201.0	25067.5	25432.9	22119.0	21187.5	13986.5
52.5°	5857.6	6058.2	6892.9	9465.2	13513.6	18987.8	22111.8	22681.5	21338.0	19647.0	12904.5
55°	2489.9	2249.9	2891.2	4274.0	7602.3	12686.0	16222.0	17490.3	18042.0	17386.4	11288.8
57.5°	888.5	970.9	1117.8	1608.6	3195.7	6943.1	9673.0	10658.3	12499.7	12757.7	7691.9
60°	569.6	580.4	627.0	738.0	1200.2	2676.2	4589.3	5373.9	6208.7	6409.3	3589.8
62.5°	440.7	444.2	465.7	483.7	569.6	1039.0	1723.2	2042.1	2120.9	1823.5	942.2
65°	369.0	372.6	379.8	379.8	404.8	487.2	601.9	662.8	644.9	637.7	533.8
67.5°	283.0	290.2	304.5	304.5	318.9	297.4	333.2	354.7	401.3	487.2	455.0
70°	222.1	225.7	236.5	243.6	243.6	215.0	240.0	261.5	293.8	361.8	358.3
72.5°	172.0	179.1	186.3	186.3	175.5	146.9	172.0	189.9	211.4	250.8	243.6
75°	132.6	132.6	136.1	111.1	86.0	75.2	103.9	125.4	157.6	164.8	136.1
77.5°	35.8	39.4	35.8	32.2	35.8	53.7	68.1	78.8	100.3	100.3	89.6
80°	0.0	3.6	10.7	21.5	35.8	50.2	60.9	68.1	78.8	86.0	82.4
82.5°	0.0	3.6	10.7	21.5	32.2	39.4	53.7	57.3	64.5	75.2	75.2
85°	0.0	3.6	7.2	14.3	21.5	25.1	25.1	21.5	21.5	17.9	14.3
87.5°	0.0	0.0	3.6	7.2	7.2	10.7	10.7	10.7	10.7	10.7	10.7
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: P533713

CATALOG NUMBER: GALN-SA9A-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1	7097.1
2.5°	7133.0	7021.9	6853.5	6588.4	6334.0	6169.2	6011.6	5836.1	5739.3	5732.2	5678.4
5°	7218.9	6968.2	6566.9	6111.9	5624.7	5205.5	4782.8	4506.9	4259.7	4123.6	4098.5
7.5°	7265.5	6939.5	6291.1	5528.0	4696.8	4012.5	3539.6	3192.1	3056.0	2955.6	2952.1
10°	7362.3	6889.3	5879.1	4754.1	3725.9	3034.5	2708.4	2550.8	2475.6	2446.9	2403.9
12.5°	7433.9	6796.2	5456.3	3958.8	2944.9	2515.0	2371.7	2335.9	2339.4	2353.8	2335.9
15°	7534.2	6713.8	4886.7	3249.4	2472.0	2264.2	2264.2	2271.4	2321.5	2328.7	2325.1
17.5°	7527.1	6552.6	4299.1	2676.2	2185.4	2156.7	2167.5	2235.5	2267.8	2278.5	2253.5
20°	7613.0	6402.1	3693.7	2285.7	2024.2	2067.2	2138.8	2156.7	2196.1	2203.3	2174.6
22.5°	7588.0	6025.9	3131.2	1977.6	1902.4	1984.8	2056.4	2077.9	2067.2	2045.7	2042.1
25°	7541.4	5703.5	2615.3	1773.4	1812.8	1902.4	1970.4	1931.0	1909.5	1913.1	1916.7
27.5°	7459.0	5295.1	2189.0	1630.1	1691.0	1823.5	1820.0	1805.6	1827.1	1809.2	1827.1
30°	7444.7	4886.7	1837.9	1501.1	1601.4	1698.2	1705.3	1730.4	1755.5	1723.2	1755.5
32.5°	7466.1	4438.8	1587.1	1422.3	1547.7	1551.3	1630.1	1655.2	1637.3	1565.6	1572.8
35°	7630.9	4094.9	1404.4	1379.3	1461.7	1465.3	1540.5	1508.3	1429.5	1386.5	1411.5
37.5°	7978.5	3808.3	1318.4	1339.9	1347.1	1393.6	1397.2	1332.7	1339.9	1336.3	1350.6
40°	8422.7	3589.8	1257.5	1304.1	1296.9	1329.1	1200.2	1236.0	1268.2	1279.0	1286.2
42.5°	8727.2	3432.1	1218.1	1246.7	1232.4	1175.1	1103.4	1139.3	1164.3	1203.8	1210.9
45°	8863.4	3306.7	1171.5	1146.4	1146.4	1042.5	1013.9	1021.0	1078.4	1121.4	1114.2
47.5°	8641.2	3184.9	1089.1	1013.9	1039.0	953.0	920.7	920.7	981.6	1035.4	1024.6
48°	8555.3	3134.8	1092.7	985.2	1003.1	938.6	906.4	899.2	967.3	1017.5	1017.5
50°	8128.9	2948.5	999.5	906.4	870.6	863.4	841.9	849.1	892.1	938.6	938.6
52.5°	7297.8	2547.2	845.5	777.4	712.9	755.9	766.7	752.3	773.8	816.8	813.3
55°	6090.4	1956.1	677.1	644.9	594.7	641.3	662.8	644.9	623.4	655.6	655.6
57.5°	3901.5	1053.3	541.0	548.1	498.0	544.6	562.5	519.5	480.1	505.1	501.6
60°	1759.1	630.5	444.2	433.5	401.3	455.0	483.7	433.5	379.8	397.7	415.6
62.5°	659.2	447.8	336.8	329.6	322.4	372.6	386.9	347.5	293.8	304.5	308.1
65°	483.7	394.1	268.7	243.6	257.9	293.8	286.6	247.2	211.4	211.4	218.5
67.5°	412.0	343.9	218.5	189.9	189.9	193.5	179.1	157.6	146.9	154.1	161.2
70°	322.4	272.3	172.0	146.9	132.6	118.2	103.9	100.3	89.6	100.3	96.7
72.5°	207.8	182.7	132.6	111.1	100.3	82.4	68.1	64.5	53.7	50.2	50.2
75°	111.1	111.1	103.9	89.6	78.8	64.5	53.7	43.0	28.7	21.5	21.5
77.5°	78.8	86.0	93.1	86.0	71.7	53.7	43.0	28.7	14.3	7.2	7.2
80°	75.2	86.0	93.1	82.4	71.7	53.7	39.4	21.5	10.7	3.6	3.6
82.5°	68.1	78.8	86.0	75.2	64.5	46.6	35.8	21.5	10.7	3.6	3.6
85°	14.3	17.9	21.5	21.5	25.1	32.2	25.1	17.9	7.2	3.6	3.6
87.5°	10.7	10.7	10.7	10.7	10.7	10.7	7.2	7.2	3.6	3.6	3.6
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)