

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: P531830

Luminaire Tested: **GALN-SA7A-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20576 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

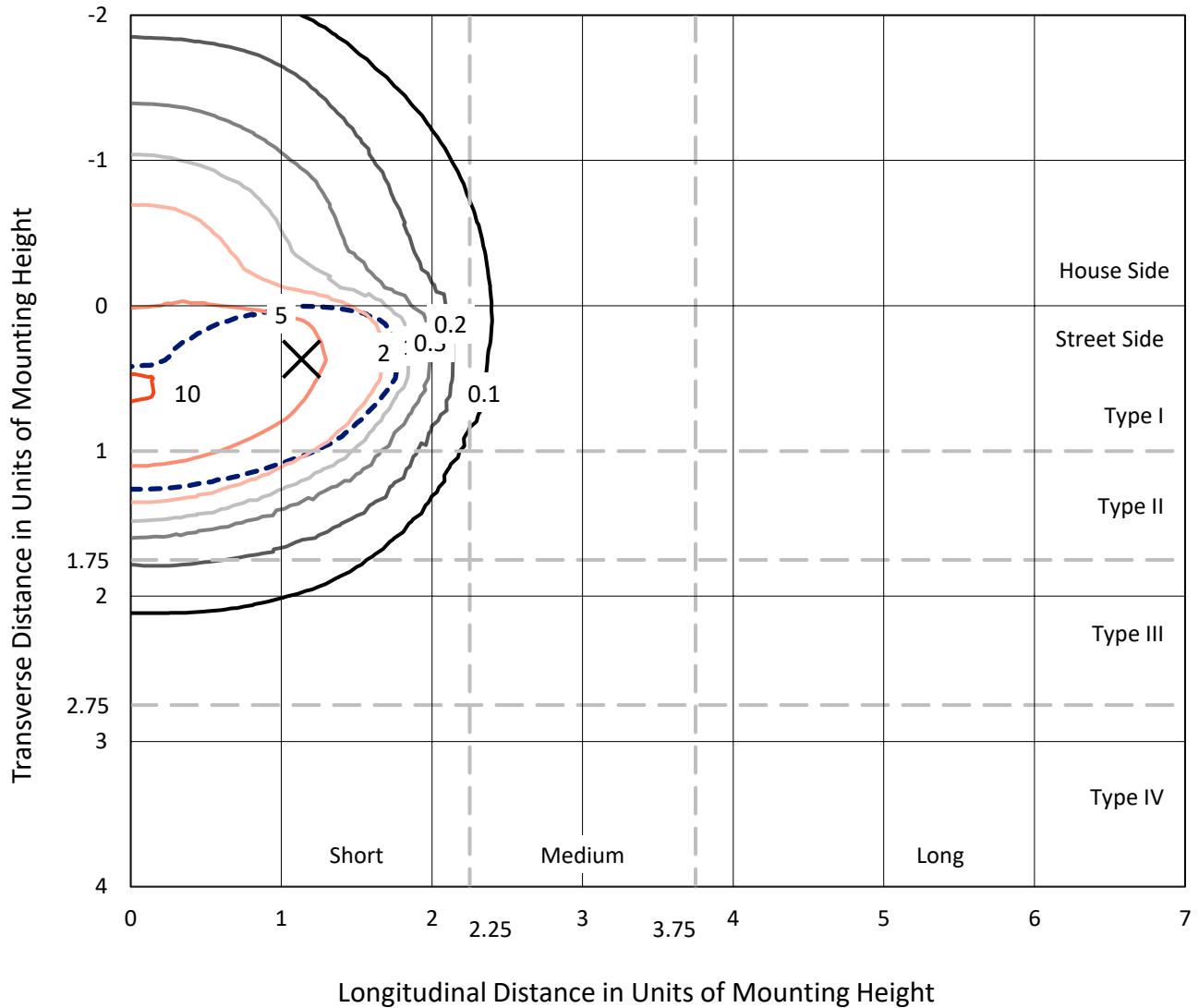
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

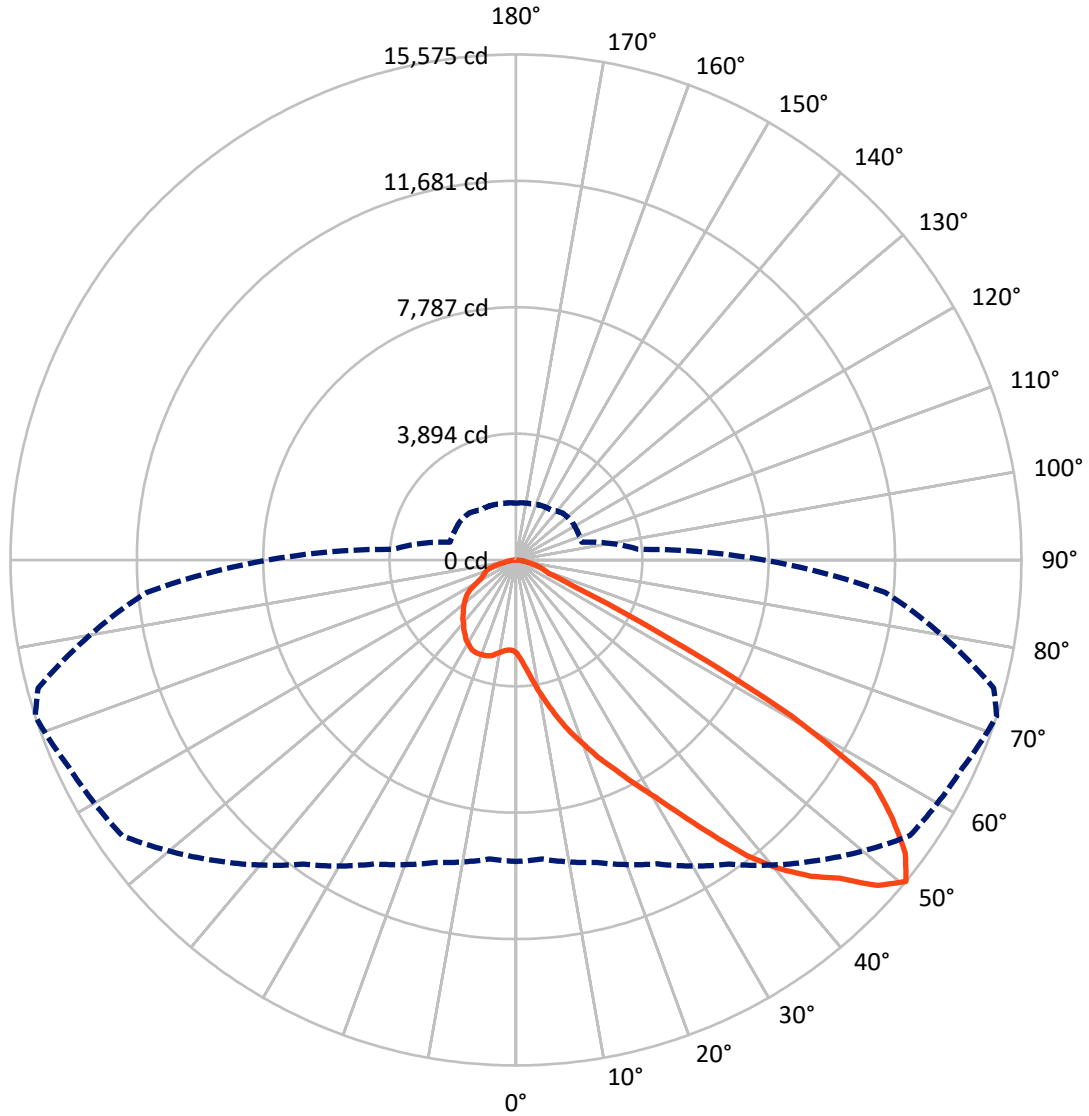
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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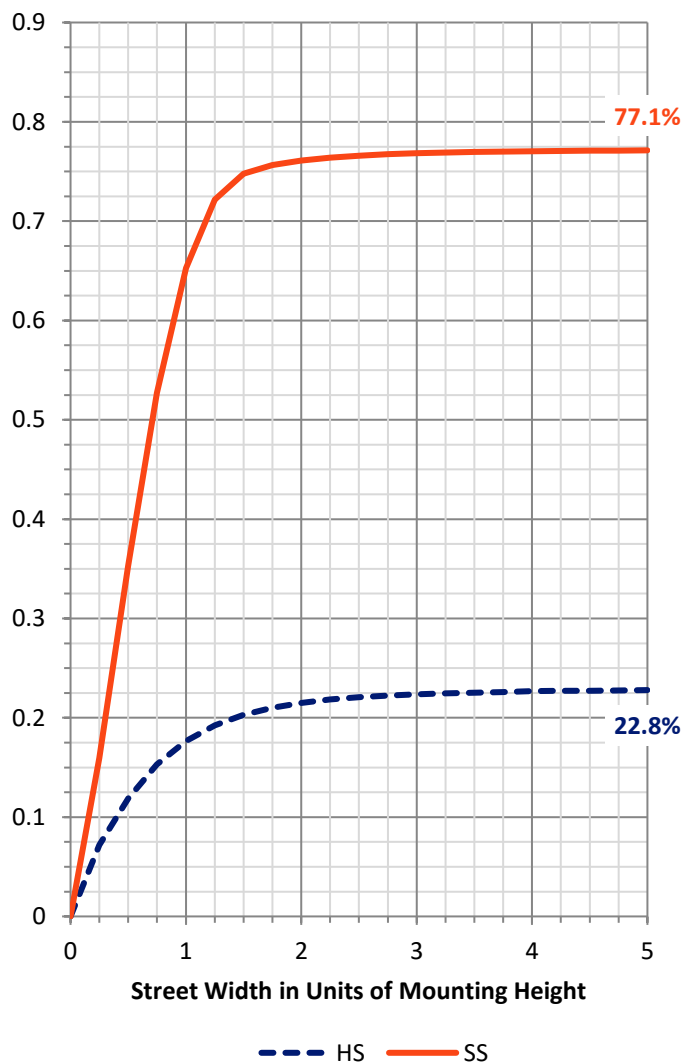
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4714.1	0.0	4714.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15861.9	0.0	15861.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	20576.0	0.0	20576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.6
10°-20°	1259.5	6.1
20°-30°	2442.1	11.9
30°-40°	4045.8	19.7
40°-50°	5660.9	27.5
50°-60°	4775.7	23.2
60°-70°	1455.6	7.1
70°-80°	510.7	2.5
80°-90°	88.8	0.4
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°	20576.0	100.0
0°-180°	20576.0	100.0

Coefficient of Utilization

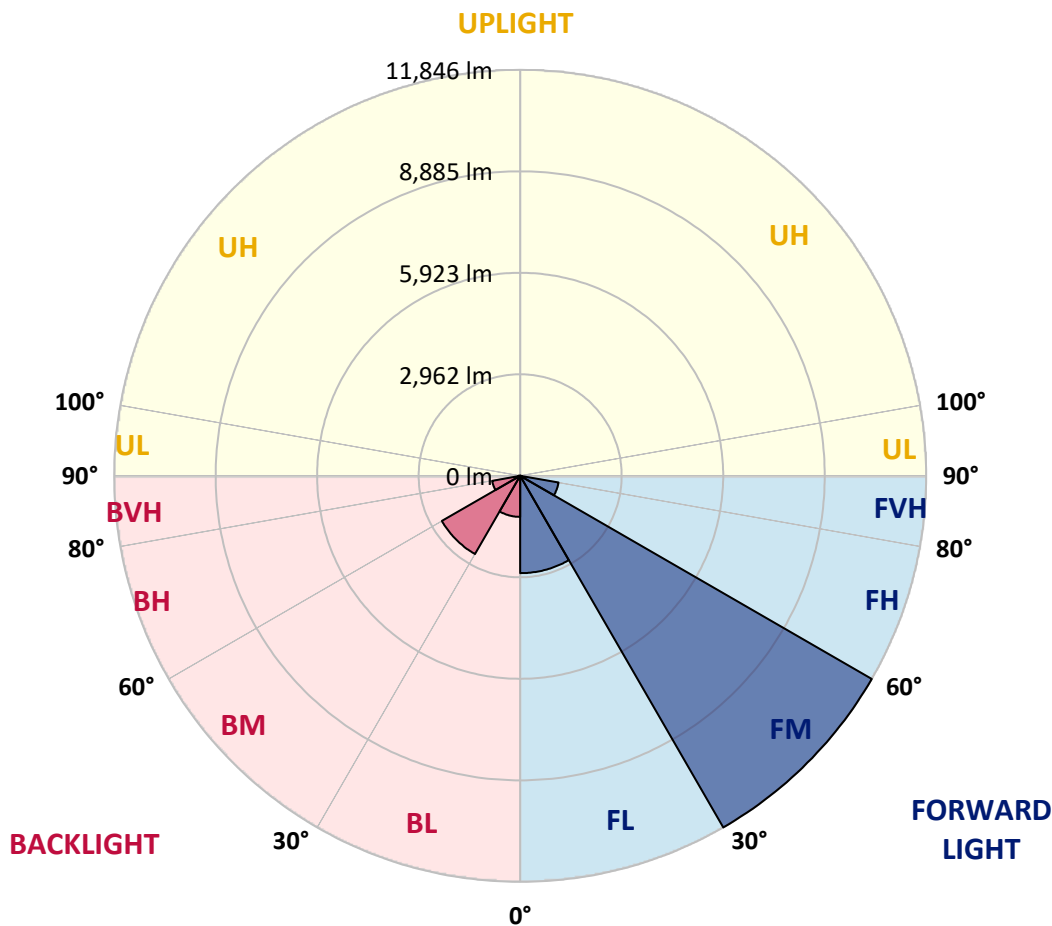


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2840.2	13.8			
FM (30°-60°)	11846.2	57.6			
FH (60°-80°)	1135.8	5.5			G1/1800
FVH (80°-90°)	39.8	0.2			G1/100
BL (0°-30°)	1198.3	5.8	B3/2500		
BM (30°-60°)	2636.2	12.8	B3/5000		
BH (60°-80°)	830.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.2			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°	55°	65°	72°	75°	85°
0°	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4
2.5°	3684.2	3661.3	3592.5	3569.6	3488.1	3340.5	3289.6	3139.3	3075.7	3017.1	2948.4
5°	4659.4	4552.4	4544.8	4414.9	4226.5	4117.0	3791.1	3572.2	3371.0	3269.2	3080.8
7.5°	5280.6	5283.1	5283.1	5176.2	5026.0	4748.5	4455.7	4061.0	3758.0	3607.8	3287.0
10°	5871.3	5820.4	5792.4	5782.2	5680.3	5410.4	5097.3	4608.4	4193.4	4017.7	3442.3
12.5°	6288.8	6245.6	6309.2	6276.1	6202.3	6026.6	5731.3	5173.7	4654.3	4417.5	3691.8
15°	6487.4	6518.0	6568.9	6660.6	6627.5	6561.3	6235.4	5754.2	5150.7	4883.4	3913.3
17.5°	6793.0	6709.0	6770.1	6884.6	6976.3	6945.7	6759.9	6174.3	5642.1	5313.7	4211.2
20°	7006.8	6958.5	6989.0	7121.4	7190.2	7363.3	7266.5	6724.2	6113.2	5766.9	4562.6
22.5°	7617.9	7546.6	7447.3	7467.7	7493.2	7615.4	7638.3	7327.7	6660.6	6293.9	4896.1
25°	8371.6	8305.4	8188.2	8068.6	7994.7	7971.8	8050.7	7801.2	7185.1	6805.7	5255.1
27.5°	9201.6	9089.6	9015.7	8768.7	8570.1	8539.6	8501.4	8366.5	7806.3	7396.4	5660.0
30°	10008.7	9919.6	9820.3	9425.6	9219.4	9186.3	8997.9	9036.1	8481.0	8025.3	6118.3
32.5°	10619.8	10627.4	10400.8	10102.9	9909.4	9733.7	9665.0	9774.5	9346.7	8980.1	6630.0
35°	11113.7	11136.6	10920.2	10650.3	10441.5	10563.7	10533.2	10584.1	10380.4	9932.3	7225.8
37.5°	11594.9	11480.3	11248.6	11118.8	11009.3	11210.4	11470.1	11513.4	11551.6	11024.6	7918.3
40°	11673.8	11684.0	11549.1	11640.7	11503.2	11806.2	12409.7	12353.6	12509.0	12048.1	8669.4
42.5°	11561.8	11584.7	11638.2	11768.0	12099.0	12463.1	13359.4	13130.2	13318.6	12908.7	9400.2
45°	11378.5	11284.3	11350.5	11844.4	12417.3	13227.0	14227.6	14049.3	13988.2	13644.5	10270.9
47.5°	10502.6	10599.4	10805.6	11414.1	12274.7	13359.4	14843.7	14803.0	14986.3	14744.4	11062.8
50°	9288.1	9250.0	9647.1	10332.0	11442.1	13099.6	14810.6	15179.8	15574.5	15238.4	11416.7
52.5°	6955.9	7159.6	7500.8	8351.2	9934.9	11684.0	14087.5	14703.7	15024.5	14953.2	11131.5
55°	4397.1	4458.2	4664.4	5675.2	7101.1	9377.3	12076.1	13504.5	14077.3	14344.7	10869.3
57.5°	2136.2	2021.6	2273.7	3085.9	4101.8	6306.7	9313.6	11762.9	13008.0	13491.7	10298.9
60°	1115.2	1158.5	1257.8	1548.0	2120.9	3274.3	5805.1	7839.4	9741.4	10484.8	7806.3
62.5°	924.2	939.5	1005.7	1150.8	1410.5	1884.1	2963.7	3821.7	4967.4	5637.0	4440.4
65°	784.2	791.8	863.1	959.9	1125.4	1326.5	1525.1	1596.4	1932.5	1983.4	1578.6
67.5°	654.3	662.0	738.4	830.0	937.0	990.4	1041.4	1036.3	1074.5	1059.2	1056.6
70°	504.1	511.8	590.7	687.4	740.9	710.4	868.2	903.9	919.1	931.9	952.2
72.5°	364.1	379.4	440.5	509.2	481.2	552.5	715.5	768.9	789.3	796.9	822.4
75°	264.8	269.9	285.2	264.8	305.5	384.5	504.1	570.3	595.8	603.4	641.6
77.5°	117.1	119.7	122.2	152.8	196.0	239.3	300.4	353.9	389.6	399.7	409.9
80°	61.1	63.7	78.9	104.4	140.0	175.7	219.0	249.5	272.4	275.0	285.2
82.5°	38.2	40.7	56.0	73.8	99.3	129.9	160.4	185.9	203.7	206.2	208.8
85°	17.8	22.9	33.1	45.8	66.2	84.0	86.6	73.8	78.9	81.5	76.4
87.5°	5.1	7.6	10.2	7.6	10.2	10.2	12.7	15.3	15.3	15.3	17.8
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°	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4	2864.4
2.5°	2910.2	2887.3	2798.2	2765.1	2678.5	2693.8	2647.9	2645.4	2635.2	2632.7	2630.1
5°	2981.5	2910.2	2803.2	2721.8	2673.4	2668.3	2635.2	2635.2	2645.4	2653.0	2635.2
7.5°	3098.6	3017.1	2836.3	2760.0	2716.7	2709.0	2686.1	2668.3	2691.2	2683.6	2663.2
10°	3233.5	3091.0	2900.0	2833.8	2762.5	2744.7	2744.7	2752.3	2714.1	2726.9	2706.5
12.5°	3383.8	3192.8	2981.5	2905.1	2821.1	2810.9	2805.8	2749.8	2770.1	2760.0	2709.0
15°	3574.7	3309.9	3085.9	2956.0	2884.7	2838.9	2772.7	2762.5	2749.8	2724.3	2701.4
17.5°	3780.9	3437.2	3134.2	2971.3	2864.4	2831.3	2780.3	2726.9	2688.7	2693.8	2675.9
20°	3956.6	3554.3	3152.1	2986.6	2849.1	2785.4	2706.5	2673.4	2632.7	2630.1	2627.6
22.5°	4165.4	3712.2	3177.5	2945.8	2803.2	2737.1	2683.6	2625.0	2597.0	2561.4	2579.2
25°	4414.9	3773.3	3182.6	2922.9	2770.1	2653.0	2625.0	2561.4	2551.2	2500.3	2510.4
27.5°	4595.7	3806.4	3141.9	2851.6	2693.8	2604.7	2553.7	2507.9	2490.1	2451.9	2441.7
30°	4837.6	3857.3	3055.3	2762.5	2617.4	2518.1	2487.5	2477.3	2426.4	2385.7	2380.6
32.5°	5112.6	3890.4	2999.3	2670.9	2538.5	2462.1	2477.3	2429.0	2365.3	2329.7	2319.5
35°	5331.5	3903.2	2859.3	2566.5	2485.0	2436.6	2418.8	2408.6	2316.9	2283.8	2258.4
37.5°	5665.1	3875.2	2742.1	2492.6	2426.4	2408.6	2393.3	2324.6	2220.2	2171.8	2136.2
40°	6054.6	3867.5	2591.9	2388.2	2370.4	2390.8	2345.0	2238.0	2092.9	2039.4	2014.0
42.5°	6428.9	3921.0	2497.7	2332.2	2309.3	2316.9	2253.3	2092.9	2021.6	1991.0	1950.3
45°	7055.2	4033.0	2342.4	2245.7	2235.5	2230.4	2154.0	1986.0	1945.2	1907.0	1899.4
47.5°	7620.5	3959.2	2243.1	2156.5	2166.7	2138.7	1975.8	1922.3	1876.5	1838.3	1825.5
50°	7653.6	3783.5	2103.1	2087.8	2090.3	2042.0	1886.7	1851.0	1792.4	1767.0	1749.2
52.5°	7480.4	3495.8	1973.2	1978.3	1986.0	1907.0	1777.2	1751.7	1703.3	1667.7	1657.5
55°	6994.1	3047.7	1845.9	1866.3	1886.7	1736.4	1695.7	1632.0	1593.9	1542.9	1545.5
57.5°	6161.5	2454.4	1667.7	1700.8	1744.1	1578.6	1548.0	1469.1	1413.1	1372.3	1367.3
60°	4129.8	1746.6	1400.4	1413.1	1509.8	1443.6	1441.1	1362.2	1285.8	1250.1	1229.8
62.5°	2436.6	1334.2	1209.4	1196.7	1194.1	1232.3	1296.0	1268.0	1168.7	1099.9	1120.3
65°	1275.6	1153.4	1125.4	1082.1	1056.6	1046.4	1094.8	1107.6	1041.4	967.5	962.4
67.5°	1071.9	1071.9	1049.0	1033.7	998.1	954.8	924.2	883.5	873.3	852.9	827.5
70°	975.2	1000.6	993.0	957.3	926.8	878.4	799.5	733.3	669.6	646.7	662.0
72.5°	850.4	875.9	875.9	858.0	817.3	743.5	667.1	590.7	537.2	496.5	491.4
75°	654.3	667.1	697.6	677.3	623.8	578.0	499.0	420.1	369.2	331.0	323.4
77.5°	417.6	437.9	437.9	435.4	397.2	353.9	303.0	247.0	208.8	180.8	173.1
80°	277.5	290.3	300.4	290.3	264.8	231.7	193.5	155.3	127.3	104.4	99.3
82.5°	203.7	219.0	226.6	216.4	191.0	165.5	137.5	109.5	81.5	63.7	58.6
85°	78.9	81.5	91.7	109.5	106.9	104.4	84.0	61.1	45.8	33.1	30.6
87.5°	20.4	17.8	20.4	20.4	17.8	15.3	15.3	15.3	15.3	7.6	10.2
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)