

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: P529492

Luminaire Tested: **GALN-SA4C-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17431 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

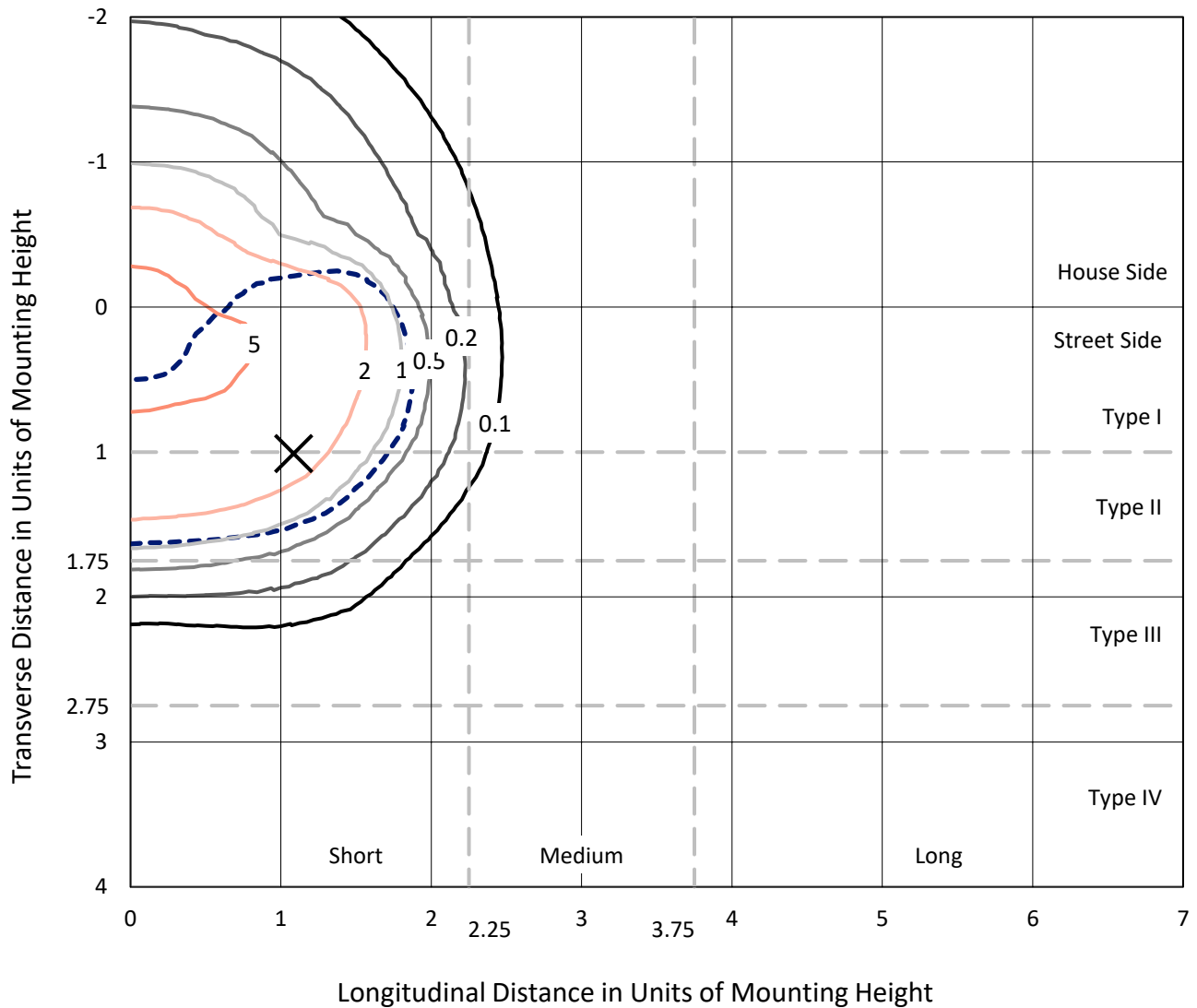
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

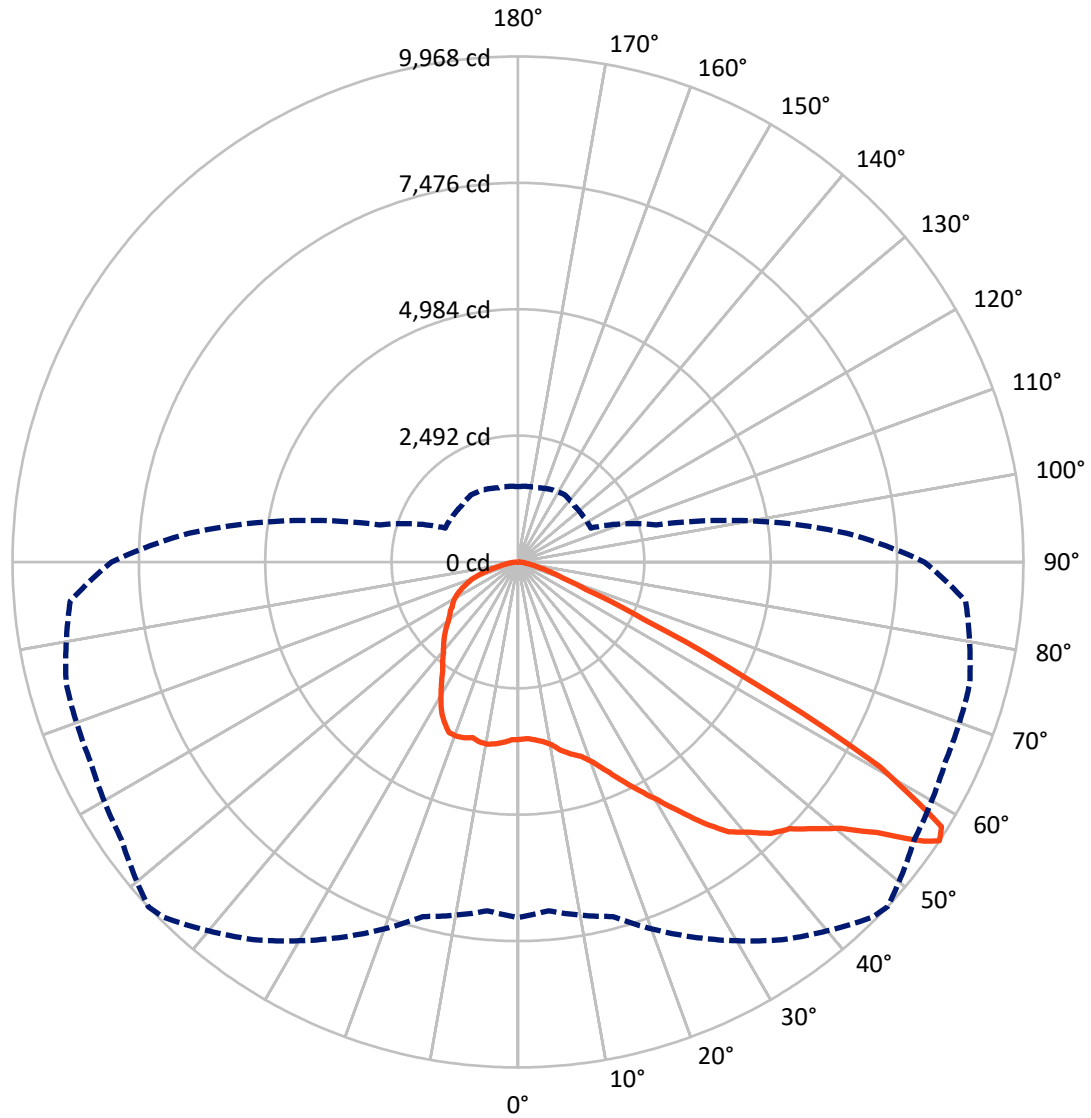
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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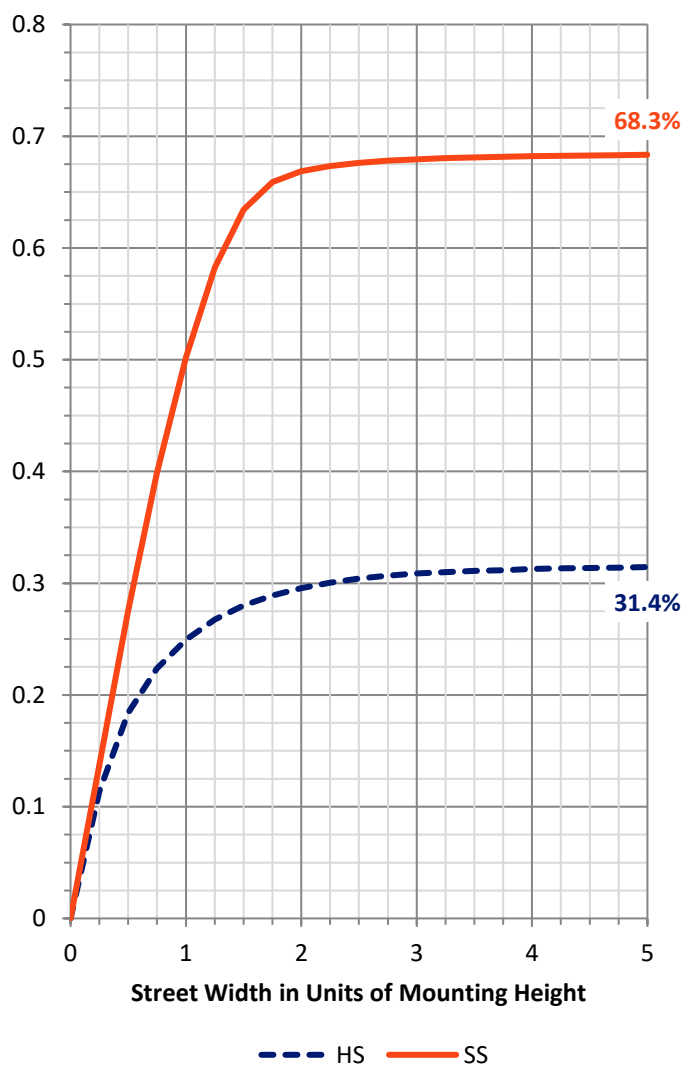
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5523.7	0.0	5523.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	11907.3	0.0	11907.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	17431.0	0.0	17431.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.2	2.0
10°-20°	1076.2	6.2
20°-30°	1902.4	10.9
30°-40°	2857.4	16.4
40°-50°	3921.5	22.5
50°-60°	4672.0	26.8
60°-70°	1999.3	11.5
70°-80°	565.8	3.2
80°-90°	95.2	0.5
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°	17431.0	100.0
0°-180°	17431.0	100.0

Coefficient of Utilization

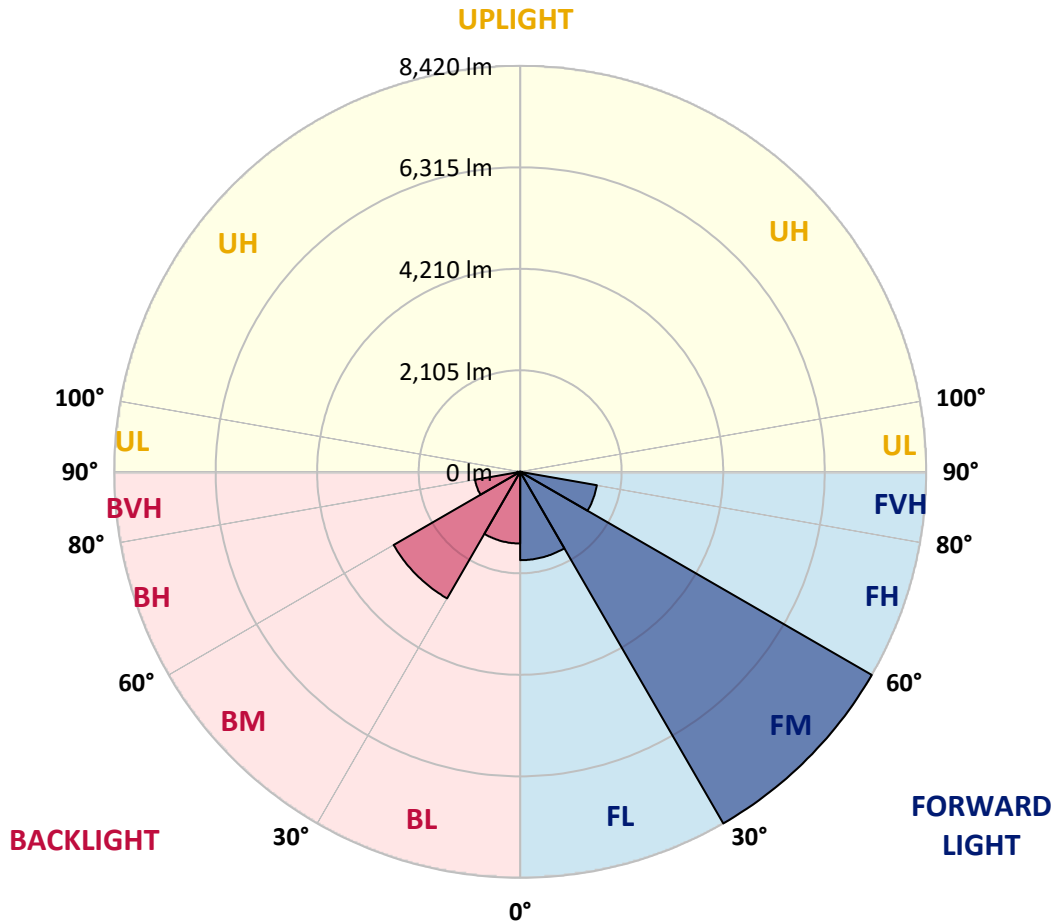


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1832.6	10.5			
FM (30°-60°)	8419.6	48.3			
FH (60°-80°)	1614.7	9.3			G1/1800
FVH (80°-90°)	40.4	0.2			G1/100
BL (0°-30°)	1487.2	8.5	B3/2500		
BM (30°-60°)	3031.3	17.4	B3/5000		
BH (60°-80°)	950.4	5.5	B2/1000		G2/1000
BVH (80°-90°)	54.8	0.3			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°	47°	55°	65°	75°	85°
0°	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4
2.5°	3488.0	3481.4	3476.9	3512.5	3499.1	3501.4	3488.0	3501.4	3510.3	3490.2	3519.1
5°	3481.4	3501.4	3483.6	3494.7	3523.6	3514.7	3523.6	3550.3	3543.6	3536.9	3528.0
7.5°	3543.6	3545.8	3559.2	3563.6	3572.5	3563.6	3576.9	3601.4	3594.7	3556.9	3561.4
10°	3632.5	3637.0	3639.2	3663.6	3679.2	3681.4	3665.9	3643.6	3641.4	3692.5	3657.0
12.5°	3734.8	3723.7	3750.3	3759.2	3777.0	3797.0	3817.0	3770.4	3799.3	3801.5	3759.2
15°	3883.7	3894.8	3863.7	3863.7	3870.4	3872.6	3928.2	3906.0	3901.5	3877.1	3894.8
17.5°	4106.0	4030.5	4028.2	3997.1	3992.7	4010.4	4030.5	4048.2	4108.3	4059.4	3963.8
20°	4268.3	4286.1	4221.6	4183.8	4190.5	4230.5	4210.5	4290.6	4332.8	4252.8	4159.4
22.5°	4555.1	4495.1	4510.6	4426.2	4432.8	4475.1	4472.8	4555.1	4579.6	4452.8	4317.2
25°	4748.5	4732.9	4746.3	4679.6	4688.5	4721.8	4775.2	4910.8	4870.8	4730.7	4417.3
27.5°	5030.8	4999.7	4988.6	4964.1	4955.3	5044.2	5106.4	5250.9	5222.0	5017.5	4595.1
30°	5319.8	5299.8	5310.9	5210.9	5246.5	5435.4	5453.2	5651.1	5637.7	5277.6	4793.0
32.5°	5519.9	5531.0	5551.0	5495.5	5653.3	5804.5	5864.5	6089.0	6100.1	5724.4	5175.3
35°	5842.3	5804.5	5815.6	5880.1	5953.4	6229.1	6326.9	6475.8	6569.2	6193.5	5542.2
37.5°	6044.6	6084.6	6037.9	6140.2	6331.3	6662.6	6751.5	6904.9	7002.7	6655.9	6042.3
40°	6360.2	6295.8	6329.1	6402.5	6598.1	7029.4	7004.9	7162.8	7193.9	7049.4	6509.2
42.5°	6700.4	6669.3	6622.6	6789.3	6953.8	7267.3	7316.2	7242.8	7400.6	7434.0	7176.1
45°	7107.2	7145.0	7151.7	7156.1	7300.6	7574.0	7507.4	7442.9	7625.2	7867.5	7589.6
47.5°	7485.1	7365.1	7451.8	7571.8	7776.4	7778.6	7856.4	7703.0	7896.4	8112.0	7963.1
50°	7611.8	7554.0	7669.6	7896.4	8212.1	8245.4	8254.3	8036.5	8136.5	8307.7	8092.0
52.5°	7562.9	7542.9	7838.6	8189.8	8652.2	8821.2	8865.7	8596.7	8652.2	8574.4	8376.6
55°	7329.5	7389.5	7687.4	8403.3	9112.4	9634.8	9719.3	9379.2	9025.7	9085.7	8867.9
56°	7009.4	6904.9	7238.4	8160.9	9092.4	9899.4	9968.3	9543.7	9303.6	9225.8	8863.4
57.5°	5946.8	5811.1	6249.1	7342.8	8587.8	9799.4	9850.5	9612.6	9256.9	9099.1	8216.5
60°	3481.4	3548.0	4103.8	5064.2	6624.8	8034.2	8205.4	8378.8	8140.9	7434.0	6115.7
62.5°	1680.7	1638.4	2036.3	2903.3	4037.1	5128.7	5077.5	5564.4	5831.2	5282.0	3861.5
65°	880.3	875.9	1111.5	1585.1	2218.6	2694.4	2741.1	3003.4	3370.2	2721.1	1960.8
67.5°	646.9	664.7	782.5	1113.8	1427.2	1456.1	1449.5	1580.6	1616.2	1367.2	1204.9
70°	506.9	515.8	602.5	847.0	1062.6	951.5	931.5	947.0	1051.5	1096.0	1042.6
72.5°	366.8	375.7	449.1	571.3	664.7	649.1	662.5	749.2	878.1	924.8	869.2
75°	244.5	251.2	291.2	349.0	393.5	424.6	449.1	549.1	669.1	695.8	669.1
77.5°	169.0	175.6	202.3	246.8	251.2	271.2	280.1	326.8	400.2	433.5	415.7
80°	95.6	95.6	108.9	126.7	155.6	182.3	186.7	224.5	257.9	280.1	284.6
82.5°	44.5	46.7	57.8	77.8	102.3	126.7	131.2	155.6	180.1	202.3	209.0
85°	22.2	24.5	33.3	46.7	62.2	75.6	73.4	75.6	80.0	75.6	77.8
87.5°	6.7	6.7	8.9	11.1	8.9	11.1	11.1	13.3	15.6	17.8	20.0
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°	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4	3501.4
2.5°	3521.4	3528.0	3483.6	3525.8	3510.3	3508.0	3539.2	3534.7	3545.8	3541.4	3514.7
5°	3523.6	3508.0	3554.7	3512.5	3532.5	3574.7	3545.8	3612.5	3579.2	3601.4	3552.5
7.5°	3592.5	3597.0	3588.1	3605.8	3597.0	3617.0	3601.4	3617.0	3590.3	3592.5	3637.0
10°	3652.5	3639.2	3654.8	3632.5	3648.1	3641.4	3605.8	3594.7	3603.6	3592.5	3621.4
12.5°	3763.7	3739.2	3728.1	3701.4	3683.7	3617.0	3561.4	3530.3	3572.5	3579.2	3565.8
15°	3877.1	3879.3	3828.2	3768.1	3657.0	3556.9	3570.3	3581.4	3581.4	3599.2	3565.8
17.5°	3948.2	3948.2	3901.5	3781.5	3668.1	3610.3	3597.0	3561.4	3530.3	3525.8	3523.6
20°	4072.7	4034.9	3928.2	3779.2	3663.6	3637.0	3536.9	3452.5	3388.0	3365.8	3363.5
22.5°	4215.0	4119.4	3970.4	3783.7	3657.0	3619.2	3432.4	3305.7	3190.1	3141.2	3147.9
25°	4346.1	4192.7	3994.9	3763.7	3632.5	3450.2	3241.3	3065.6	2945.6	2905.6	2885.6
27.5°	4437.3	4270.5	3994.9	3781.5	3541.4	3261.3	3047.8	2823.3	2718.8	2692.2	2696.6
30°	4559.5	4368.4	4063.8	3743.7	3359.1	3016.7	2761.1	2614.3	2552.1	2529.9	2545.4
32.5°	4846.3	4624.0	4159.4	3652.5	3143.4	2772.2	2565.4	2483.2	2392.0	2347.6	2332.0
35°	5157.6	4866.3	4252.8	3499.1	2901.1	2549.9	2420.9	2345.4	2236.4	2187.5	2196.4
37.5°	5597.7	5177.6	4259.4	3245.7	2638.8	2425.4	2307.6	2189.7	2100.8	2025.2	2003.0
40°	6191.3	5602.2	4243.9	2978.9	2427.6	2278.7	2192.0	2045.2	1945.2	1891.8	1903.0
42.5°	6713.7	6100.1	4179.4	2676.6	2236.4	2178.6	2080.8	1936.3	1838.5	1782.9	1778.5
45°	7153.9	6467.0	4057.1	2418.7	2076.4	2067.5	1954.1	1842.9	1765.1	1714.0	1736.2
47.5°	7560.7	6762.6	3872.6	2160.8	1929.6	1947.4	1838.5	1769.6	1720.7	1674.0	1671.8
50°	7707.4	6758.2	3710.3	1947.4	1811.8	1802.9	1798.5	1725.1	1674.0	1634.0	1651.8
52.5°	7952.0	6833.8	3534.7	1800.7	1705.1	1707.3	1722.9	1669.5	1611.7	1587.3	1609.5
55°	8303.2	6844.9	3147.9	1629.5	1616.2	1631.7	1631.7	1596.2	1547.3	1527.3	1516.1
56°	8016.4	6513.6	2823.3	1585.1	1571.7	1571.7	1614.0	1573.9	1513.9	1498.4	1485.0
57.5°	7394.0	5706.7	2363.1	1531.7	1511.7	1542.8	1565.1	1522.8	1467.2	1445.0	1458.3
60°	5099.8	3861.5	1776.2	1416.1	1416.1	1467.2	1485.0	1422.8	1398.3	1396.1	1378.3
62.5°	2976.7	2249.8	1389.4	1311.6	1316.1	1358.3	1371.6	1336.1	1305.0	1342.7	1360.5
65°	1578.4	1342.7	1191.6	1200.5	1202.7	1236.0	1293.8	1291.6	1289.4	1300.5	1302.7
67.5°	1142.7	1116.0	1082.6	1073.7	1078.2	1102.6	1160.5	1204.9	1202.7	1176.0	1156.0
70°	1018.2	980.4	960.4	962.6	944.8	973.7	1020.4	1049.3	998.2	967.0	953.7
72.5°	847.0	835.9	822.5	824.8	789.2	782.5	729.2	729.2	715.8	706.9	722.5
75°	646.9	642.5	649.1	638.0	600.2	560.2	529.1	500.2	455.7	437.9	429.1
77.5°	409.0	422.4	437.9	413.5	397.9	369.0	337.9	309.0	273.4	253.4	253.4
80°	277.9	289.0	300.1	295.7	277.9	251.2	226.8	195.6	171.2	155.6	153.4
82.5°	211.2	220.1	235.6	217.9	200.1	177.8	157.8	135.6	113.4	95.6	95.6
85°	75.6	86.7	95.6	104.5	111.2	113.4	97.8	80.0	64.5	51.1	48.9
87.5°	20.0	22.2	24.5	22.2	22.2	22.2	24.5	22.2	20.0	15.6	15.6
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)