

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: P529326

Luminaire Tested: **GALN-SA4C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19677 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

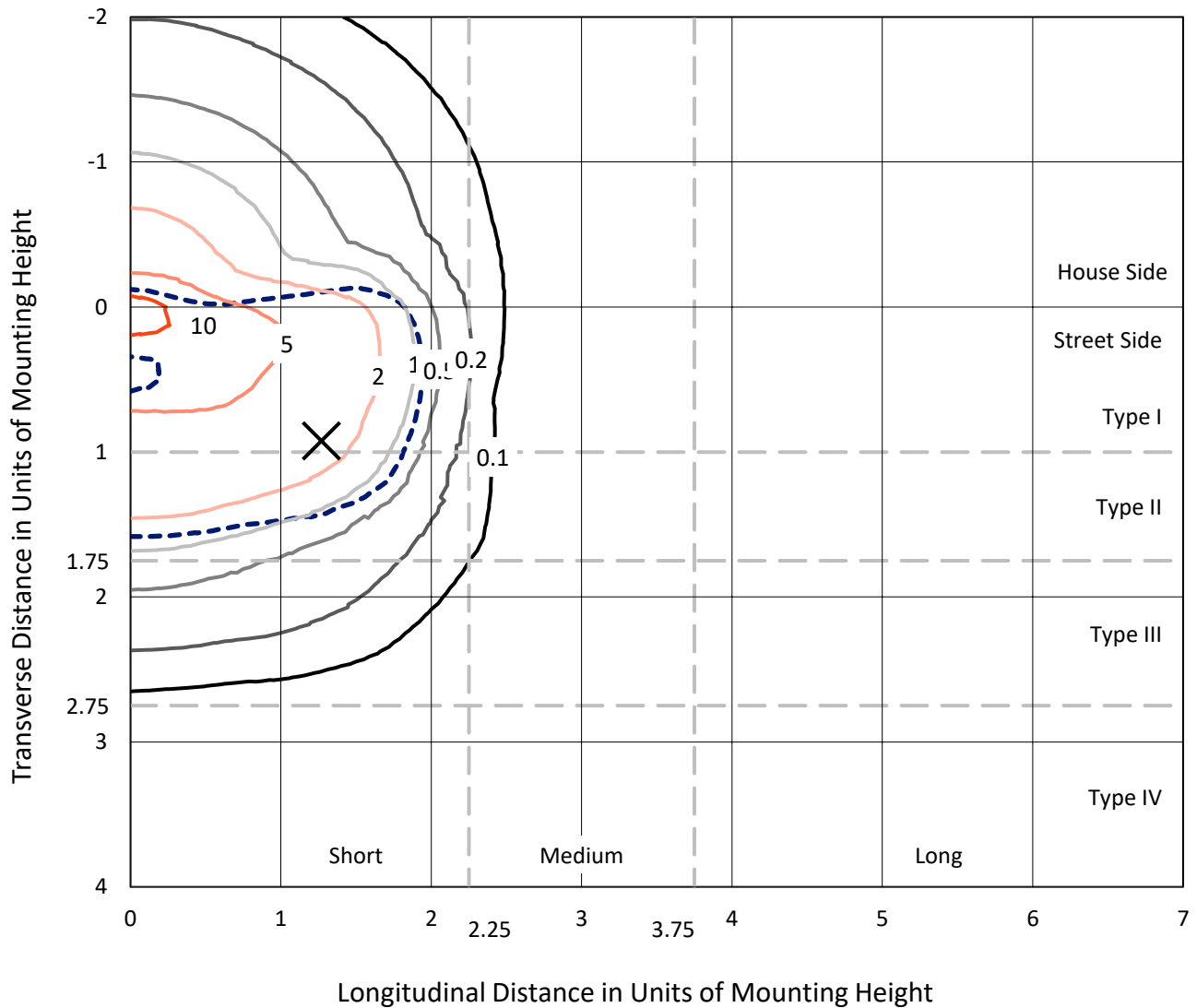
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

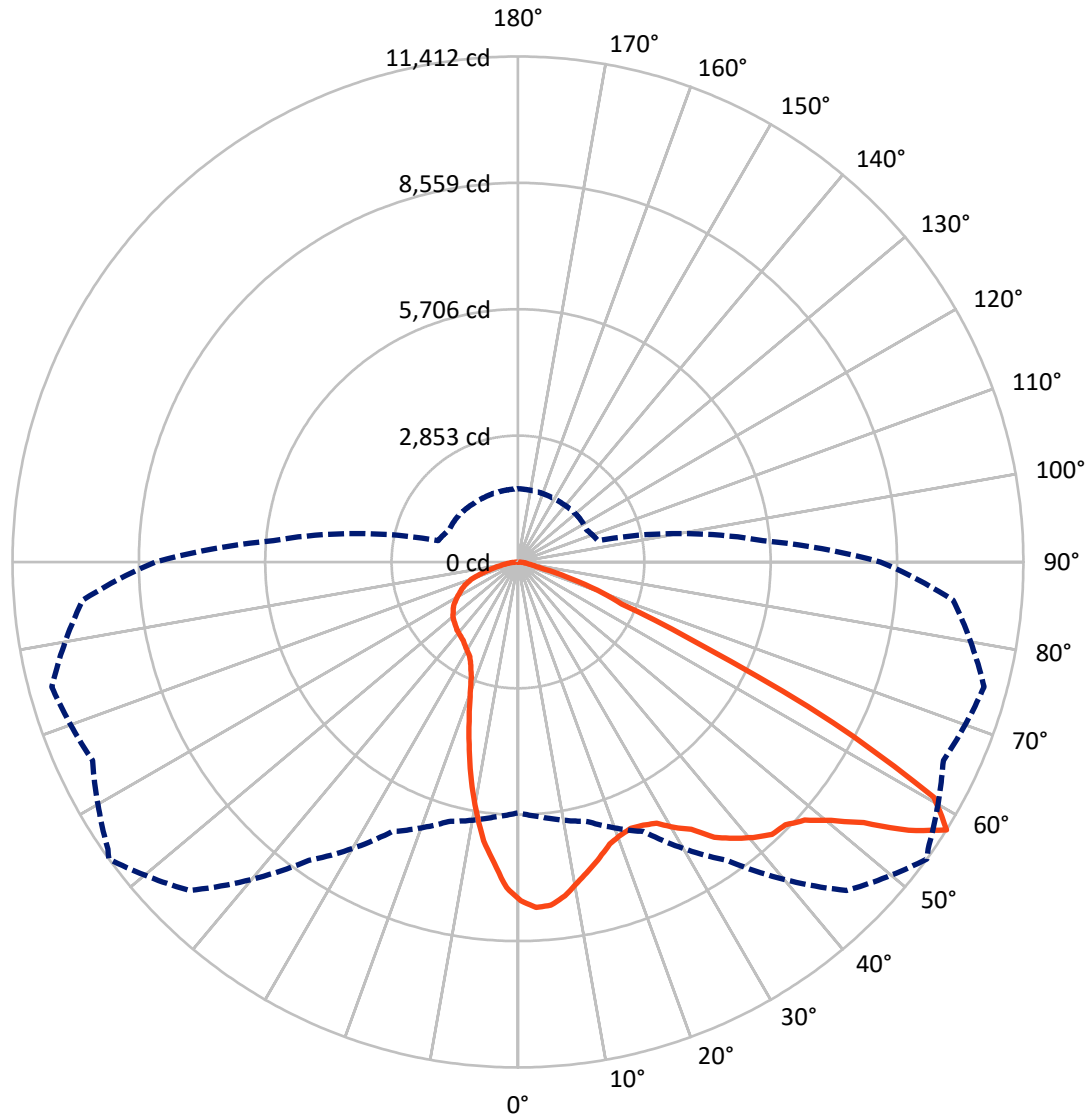
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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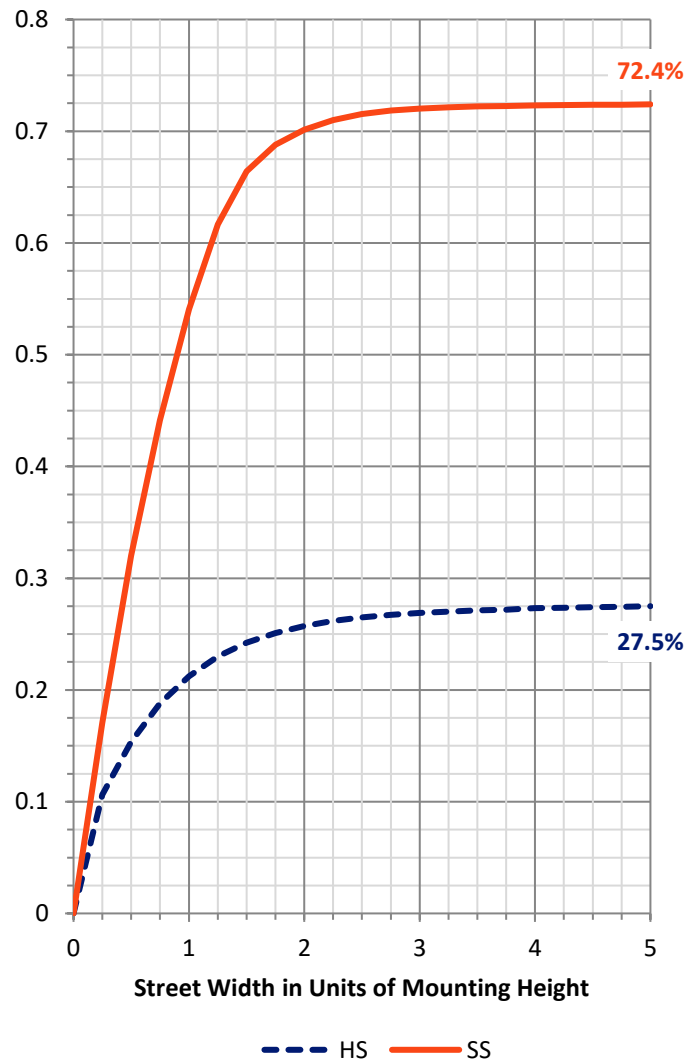
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5443.7	0.0	5443.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14233.3	0.0	14233.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	19677.0	0.0	19677.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.6	3.4
10°-20°	1527.2	7.8
20°-30°	2145.7	10.9
30°-40°	2999.7	15.2
40°-50°	4061.0	20.6
50°-60°	4946.5	25.1
60°-70°	2576.4	13.1
70°-80°	660.2	3.4
80°-90°	100.7	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°	19677.0	100.0
0°-180°	19677.0	100.0



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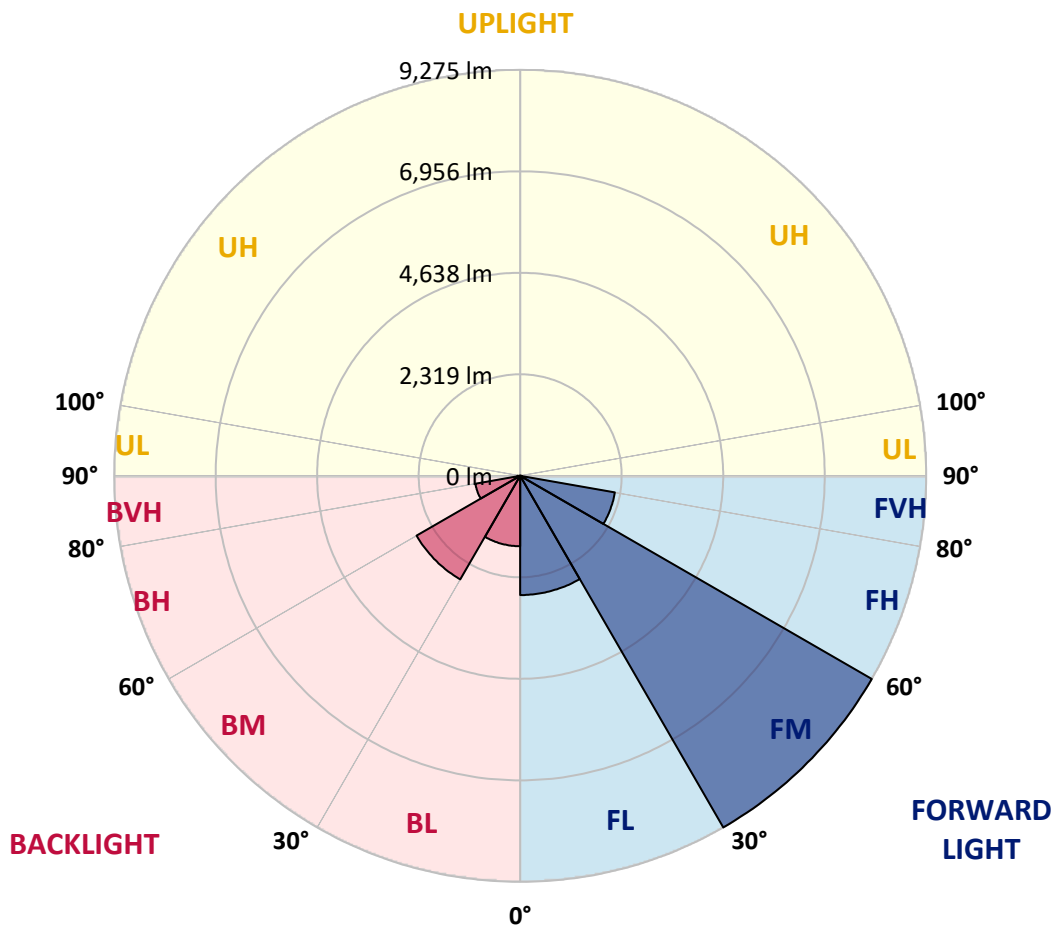
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2723.6	13.8			
FM (30°-60°)	9275.1	47.1			
FH (60°-80°)	2196.5	11.2			G2/5000
FVH (80°-90°)	38.1	0.2			G1/100
BL (0°-30°)	1608.9	8.2	B3/2500		
BM (30°-60°)	2732.2	13.9	B3/5000		
BH (60°-80°)	1040.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2
2.5°	7865.7	7835.4	7840.4	7880.9	7830.3	7810.1	7810.1	7711.5	7719.0	7650.8	7633.0
5°	7683.6	7612.8	7660.9	7721.6	7731.7	7751.9	7784.8	7759.5	7688.7	7615.3	7496.5
7.5°	7208.1	7271.4	7289.1	7332.1	7423.1	7506.6	7610.3	7539.5	7536.9	7463.6	7392.8
10°	6790.8	6752.9	6849.0	6912.2	7064.0	7203.1	7362.4	7354.8	7392.8	7309.3	7187.9
12.5°	6376.0	6345.7	6391.2	6535.4	6747.8	6950.2	7139.9	7069.0	7271.4	7256.2	6995.7
15°	5936.0	5958.7	6024.5	6158.5	6436.7	6679.6	6919.8	6922.4	7101.9	7162.6	6813.6
17.5°	5627.4	5602.1	5685.6	5885.4	6133.2	6424.1	6697.3	6752.9	7028.6	7064.0	6758.0
20°	5397.3	5432.7	5541.4	5642.6	5928.4	6279.9	6588.5	6608.7	7013.4	7109.5	6669.4
22.5°	5341.6	5321.4	5356.8	5521.2	5756.4	6138.3	6530.3	6606.2	7010.9	7094.3	6502.5
25°	5283.4	5349.2	5346.7	5511.1	5683.1	6024.5	6578.4	6661.8	7144.9	7172.7	6525.3
27.5°	5415.0	5407.4	5478.2	5490.8	5703.3	6054.8	6679.6	6742.8	7367.5	7344.7	6543.0
30°	5546.5	5508.5	5551.5	5700.8	5799.4	6229.4	6957.8	6952.7	7655.8	7640.6	6598.6
32.5°	5708.3	5690.6	5718.5	5850.0	6016.9	6462.0	7193.0	7342.2	7949.2	8045.3	6790.8
35°	5738.7	5812.0	5877.8	6054.8	6292.6	6838.9	7635.6	7759.5	8288.1	8589.1	7157.6
37.5°	5930.9	5958.7	6113.0	6426.6	6644.1	7342.2	7916.3	7994.7	8596.7	8938.1	7544.5
40°	6135.8	6168.7	6401.3	6730.1	7028.6	7671.0	8179.4	8204.6	8695.3	9206.2	7797.4
42.5°	6414.0	6444.3	6674.5	7086.7	7486.4	7951.7	8412.0	8439.9	8687.7	9514.8	8199.6
45°	6702.3	6775.7	7046.3	7514.2	7873.3	8280.5	8465.1	8579.0	8758.5	9790.4	8525.8
47.5°	7107.0	7175.3	7397.8	7855.6	8275.5	8568.8	8710.5	8821.8	8928.0	10030.7	8735.8
50°	7536.9	7549.6	7820.2	8235.0	8543.6	8895.1	9168.3	9206.2	9150.6	10308.9	9092.4
52.5°	7853.1	7893.6	8103.5	8508.1	8968.5	9400.9	9775.3	9815.7	9707.0	10412.6	9213.8
55°	7329.5	7306.8	7648.2	8186.9	9254.3	10154.6	10698.4	10728.8	10111.6	10733.8	9610.9
57.5°	5665.4	5774.1	6065.0	6715.0	8222.3	10488.5	11411.6	11302.9	10597.2	10895.7	9863.8
60°	4117.5	4092.2	4287.0	4722.0	6196.5	9039.3	10789.5	10900.7	10200.2	9820.8	8133.8
62.5°	3353.7	3318.3	3333.5	3348.6	3998.6	5999.2	7987.1	7984.6	7855.6	7058.9	5485.8
65°	2680.9	2764.4	2772.0	2885.8	2969.3	3583.8	4628.4	4876.2	4246.5	3482.7	2526.6
67.5°	2020.8	1990.5	2091.6	2496.3	2653.1	2587.3	2526.6	2554.5	1815.9	1310.1	1234.2
70°	1191.2	1178.6	1300.0	1740.1	2185.2	2056.2	1904.5	1907.0	1246.9	915.6	1019.3
72.5°	652.5	650.0	675.3	882.7	1241.8	1289.9	1143.2	1178.6	743.6	741.0	796.7
75°	364.2	356.6	349.0	389.5	447.7	473.0	483.1	488.1	510.9	571.6	594.4
77.5°	134.0	129.0	129.0	149.2	189.7	237.7	301.0	306.0	361.7	414.8	437.5
80°	45.5	50.6	68.3	93.6	126.5	169.5	204.9	209.9	255.4	290.9	298.4
82.5°	27.8	30.4	45.5	65.8	91.1	118.9	151.8	154.3	189.7	212.5	222.6
85°	12.6	15.2	25.3	40.5	58.2	78.4	80.9	80.9	78.4	80.9	75.9
87.5°	0.0	0.0	5.1	5.1	5.1	7.6	10.1	7.6	12.6	15.2	15.2
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°	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2	7648.2
2.5°	7579.9	7552.1	7466.1	7390.2	7367.5	7266.3	7117.1	7134.8	7026.0	7076.6	7023.5
5°	7476.2	7382.7	7162.6	7069.0	6823.7	6712.4	6636.6	6446.9	6358.3	6340.6	6264.8
7.5°	7210.7	7152.5	6876.8	6623.9	6363.4	6140.8	5855.0	5660.3	5521.2	5483.3	5372.0
10°	7000.8	6871.8	6489.9	6105.4	5733.6	5346.7	4974.9	4684.0	4542.4	4378.0	4322.4
12.5°	6793.4	6598.6	6082.7	5589.5	5108.9	4620.8	4170.6	3816.5	3508.0	3434.6	3409.3
15°	6664.4	6325.5	5718.5	5124.1	4441.2	3803.9	3353.7	3121.0	2931.3	2852.9	2908.6
17.5°	6494.9	6100.4	5369.4	4577.8	3826.6	3239.9	2863.0	2718.9	2650.6	2658.2	2635.4
20°	6282.5	5887.9	4911.7	4082.1	3277.8	2809.9	2594.9	2541.8	2551.9	2569.6	2562.1
22.5°	6130.7	5629.9	4580.3	3576.3	2832.7	2572.2	2483.6	2445.7	2478.6	2493.8	2481.1
25°	6014.4	5409.9	4178.2	3128.6	2574.7	2438.1	2397.7	2395.1	2445.7	2465.9	2453.3
27.5°	5908.2	5205.0	3778.6	2787.2	2402.7	2334.4	2321.8	2352.1	2385.0	2405.2	2422.9
30°	5844.9	5048.2	3404.3	2501.4	2316.7	2283.8	2261.1	2288.9	2306.6	2326.8	2316.7
32.5°	5905.6	4936.9	3042.6	2339.5	2245.9	2213.0	2243.4	2225.7	2256.0	2273.7	2245.9
35°	6095.3	4838.3	2784.6	2253.5	2165.0	2177.6	2182.7	2175.1	2187.7	2172.6	2205.4
37.5°	6282.5	4802.9	2546.9	2180.1	2127.0	2127.0	2122.0	2106.8	2132.1	2127.0	2142.2
40°	6520.2	4825.7	2344.5	2101.7	2091.6	2086.6	2066.3	2063.8	2053.7	2056.2	2061.3
42.5°	6727.6	4876.2	2228.2	2051.2	2058.7	2068.9	2030.9	2000.6	2013.2	1987.9	1987.9
45°	6947.6	4921.8	2124.5	2015.8	2008.2	2005.6	1975.3	1957.6	1947.5	1950.0	1972.8
47.5°	7294.1	4987.5	2046.1	1967.7	1972.8	1934.8	1927.2	1904.5	1914.6	1929.8	1932.3
50°	7539.5	5126.6	1985.4	1912.1	1929.8	1904.5	1858.9	1848.8	1848.8	1874.1	1869.1
52.5°	7711.5	5321.4	1927.2	1851.4	1858.9	1838.7	1823.5	1800.8	1785.6	1821.0	1838.7
55°	8237.5	5645.1	1912.1	1800.8	1798.2	1778.0	1750.2	1727.4	1719.8	1724.9	1760.3
57.5°	8186.9	5544.0	1864.0	1712.3	1707.2	1679.4	1651.6	1644.0	1641.4	1646.5	1656.6
60°	6646.7	4094.7	1664.2	1611.1	1603.5	1598.4	1570.6	1540.3	1525.1	1540.3	1527.6
62.5°	4398.2	2741.6	1466.9	1489.7	1494.7	1482.1	1436.6	1406.2	1411.3	1429.0	1401.2
65°	2159.9	1611.1	1330.3	1391.0	1396.1	1360.7	1317.7	1282.3	1264.6	1279.8	1267.1
67.5°	1234.2	1231.7	1219.1	1282.3	1279.8	1244.4	1176.1	1145.7	1115.4	1120.4	1112.8
70°	1047.1	1067.3	1092.6	1130.5	1128.0	1087.5	1006.6	983.8	940.9	935.8	923.1
72.5°	824.5	859.9	915.6	943.4	920.6	870.0	816.9	779.0	741.0	718.3	725.9
75°	612.1	662.6	693.0	710.7	675.3	647.5	604.5	558.9	513.4	493.2	485.6
77.5°	445.1	460.3	488.1	500.8	478.0	450.2	424.9	379.4	336.4	308.6	301.0
80°	311.1	321.2	341.4	341.4	341.4	328.8	295.9	250.4	222.6	197.3	192.2
82.5°	217.5	227.6	247.9	237.7	235.2	220.0	199.8	164.4	134.0	116.3	111.3
85°	75.9	83.5	101.2	121.4	129.0	126.5	113.8	91.1	70.8	58.2	53.1
87.5°	17.7	17.7	20.2	17.7	17.7	20.2	17.7	17.7	17.7	12.6	10.1
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)