

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: P528421

Luminaire Tested: **GALN-SA3C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11275 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

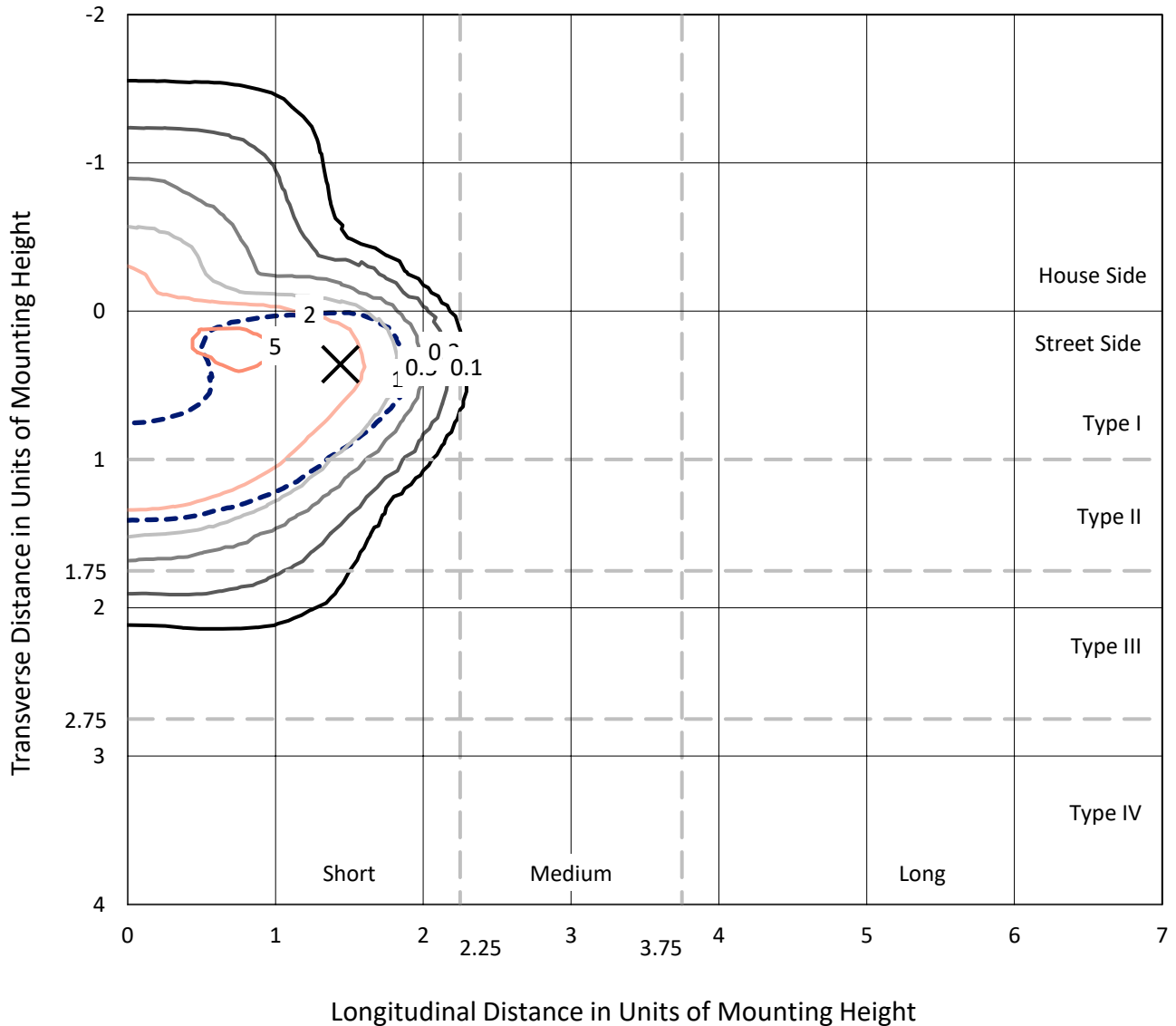
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

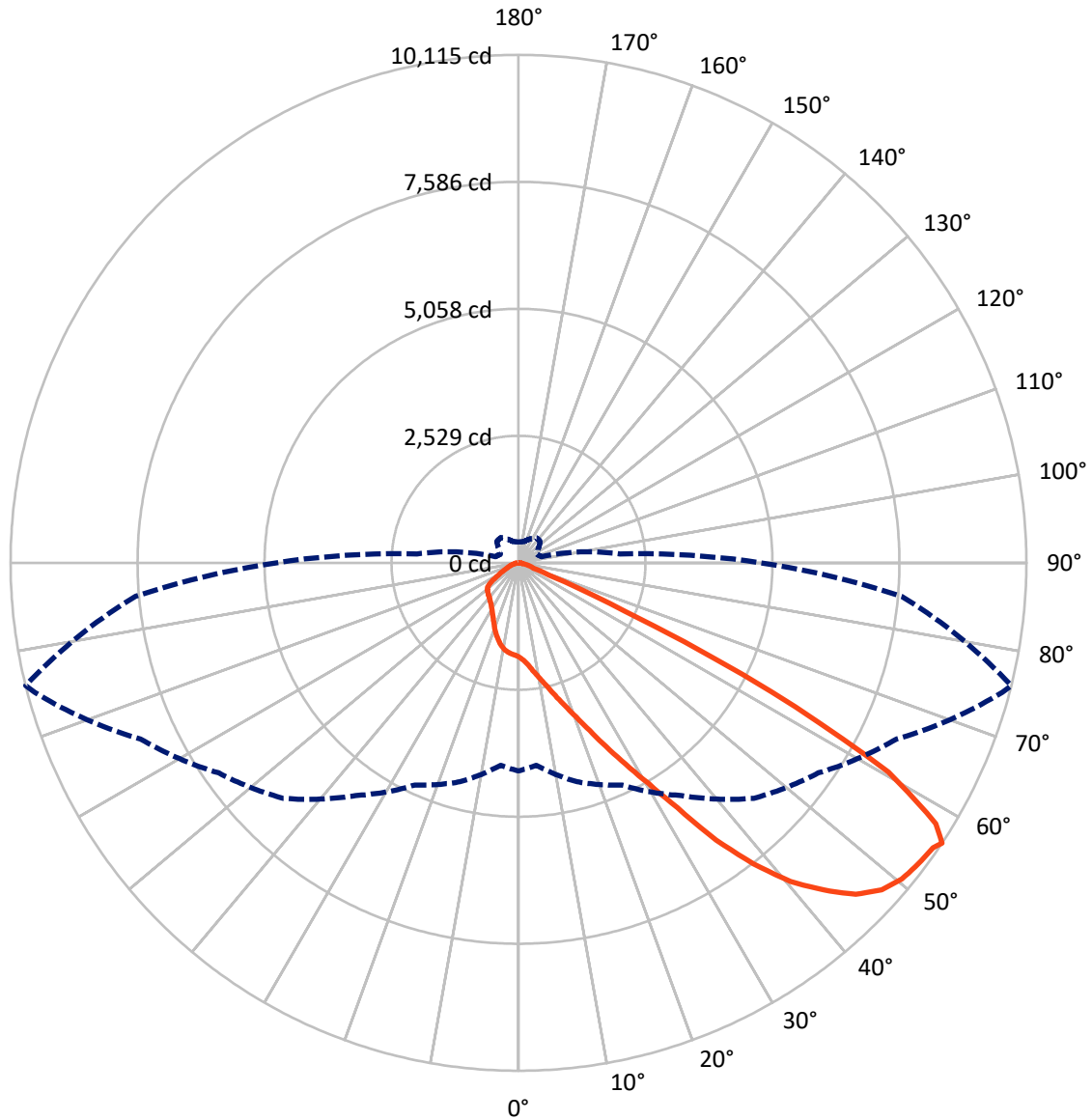
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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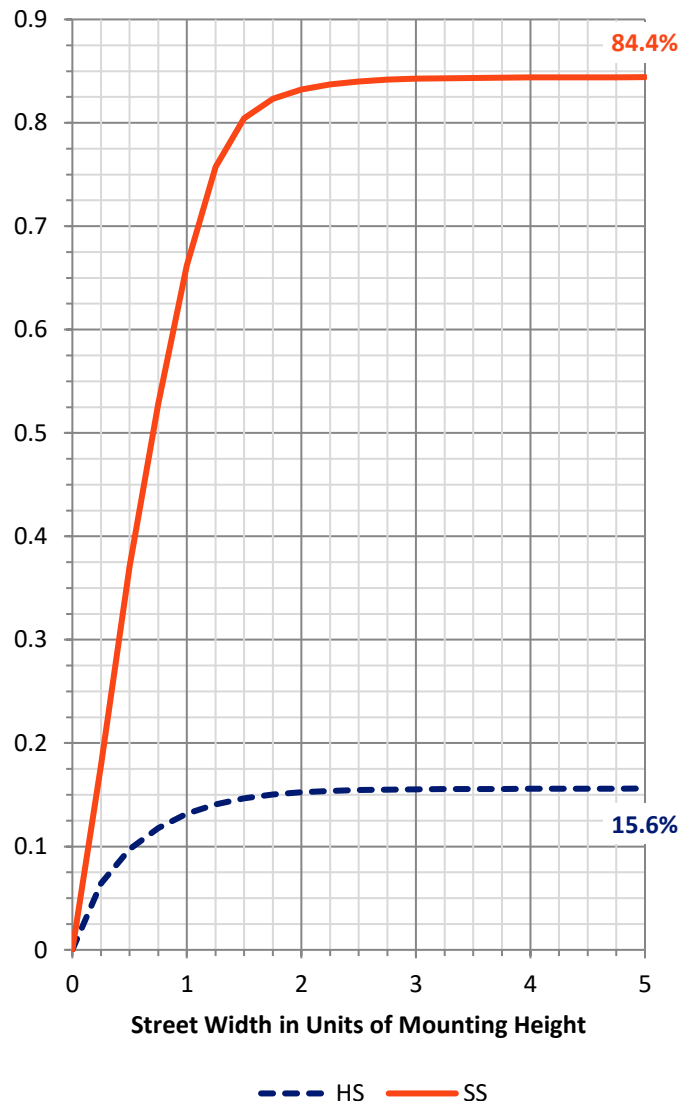
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.2	0.0	1771.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9503.8	0.0	9503.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	11275.0	0.0	11275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	1.7
10°-20°	607.4	5.4
20°-30°	1101.3	9.8
30°-40°	1899.3	16.8
40°-50°	3085.4	27.4
50°-60°	3252.1	28.8
60°-70°	993.7	8.8
70°-80°	127.4	1.1
80°-90°	19.4	0.2
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°	11275.0	100.0
0°-180°	11275.0	100.0

Coefficient of Utilization

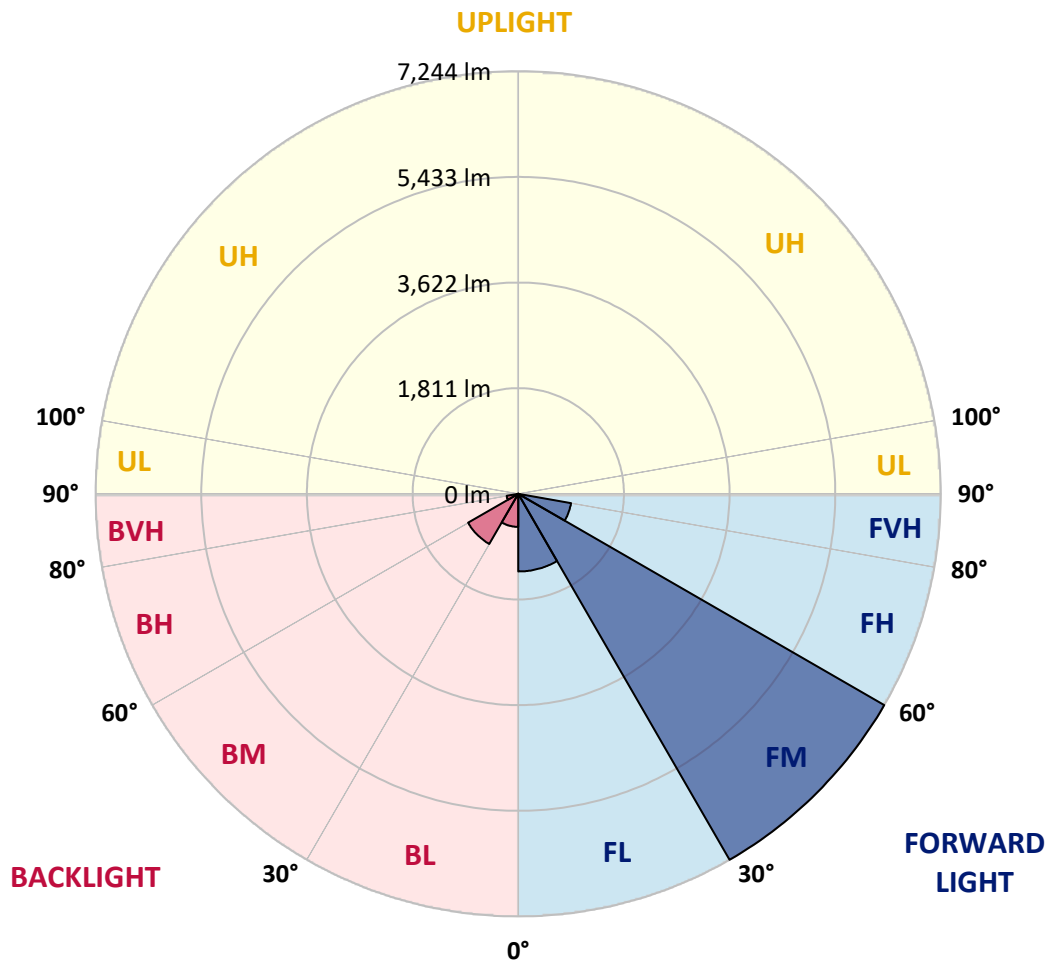


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1331.1	11.8			
FM (30°-60°)	7244.2	64.2			
FH (60°-80°)	919.0	8.2			G1/1800
FVH (80°-90°)	9.5	0.1			G0/10
BL (0°-30°)	566.6	5.0	B2/1000		
BM (30°-60°)	992.7	8.8	B1/1000		
BH (60°-80°)	202.1	1.8	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	2161.5	2111.6	2113.7	2109.5	2103.3	2080.4	2011.8	2001.4	1955.7	1943.2	1901.7
5°	2421.3	2377.6	2402.6	2365.2	2329.8	2309.0	2196.8	2144.8	2072.1	2045.1	1986.9
7.5°	2583.4	2562.6	2554.3	2556.4	2523.1	2471.1	2421.3	2307.0	2209.3	2188.5	2065.9
10°	2662.4	2649.9	2662.4	2656.1	2670.7	2676.9	2589.6	2521.0	2377.6	2342.3	2151.1
12.5°	2681.1	2706.0	2716.4	2743.4	2778.7	2839.0	2832.8	2739.3	2548.0	2525.2	2282.0
15°	2726.8	2747.6	2737.2	2780.8	2847.3	2949.2	3003.2	2988.7	2782.9	2741.3	2433.7
17.5°	2768.3	2730.9	2766.3	2853.6	2920.1	3075.9	3206.9	3267.1	3038.5	2990.7	2573.0
20°	2824.5	2814.1	2807.8	2851.5	2969.9	3177.8	3437.6	3547.7	3325.3	3275.5	2772.5
22.5°	2994.9	2997.0	2992.8	2928.4	3013.6	3248.4	3639.2	3911.4	3668.3	3626.7	2999.0
25°	3219.3	3192.3	3171.5	3119.6	3109.2	3312.9	3842.8	4356.2	4079.8	4050.7	3244.3
27.5°	3456.3	3456.3	3393.9	3346.1	3279.6	3472.9	4029.9	4788.5	4576.5	4537.0	3458.4
30°	3714.0	3728.5	3720.2	3618.4	3576.8	3647.5	4221.1	5341.3	5146.0	5096.1	3811.7
32.5°	4094.3	4063.2	4098.5	4013.3	3890.7	3953.0	4522.5	5836.0	5885.9	5815.2	4275.1
35°	4597.3	4578.6	4555.7	4416.5	4271.0	4320.9	4948.5	6444.9	6814.9	6779.5	4742.8
37.5°	5048.3	5037.9	5019.2	4923.6	4755.2	4815.5	5432.8	7078.8	7721.0	7604.6	5403.7
40°	5522.1	5578.3	5518.0	5432.8	5279.0	5412.0	6002.2	7455.0	8483.8	8342.5	5908.7
42.5°	6164.4	6120.7	6147.7	5991.9	5908.7	6054.2	6573.8	7831.2	9076.1	8907.8	6444.9
45°	6848.1	6850.2	6777.5	6727.6	6511.4	6669.4	6925.0	8039.0	9547.9	9417.0	6850.2
47.5°	7286.7	7284.6	7363.6	7442.5	7220.2	7064.3	7164.0	8236.5	9791.1	9730.8	6997.8
50°	7218.1	7238.9	7340.7	7635.8	7752.2	7542.3	7388.5	8178.3	9901.2	9895.0	7124.5
52.5°	6278.7	6347.2	6517.7	6943.7	7529.8	7789.6	7623.3	8286.3	9955.2	9965.6	7313.7
55°	4780.2	4817.6	5141.8	5659.3	6307.8	7197.3	7529.8	8371.6	9996.8	10015.5	7542.3
56°	4146.3	4046.5	4514.2	4882.0	5657.2	6629.9	7292.9	8305.0	9971.9	10115.3	7656.6
57.5°	3130.0	3063.5	3441.7	3901.0	4647.2	5673.9	6557.2	7991.2	9803.5	9801.4	7492.4
60°	1903.8	1837.3	2128.2	2398.4	2816.2	3493.7	4431.0	6363.9	8288.4	8463.0	6066.7
62.5°	1132.7	1174.3	1461.1	1625.3	1760.4	1831.0	2292.4	3782.6	5530.5	5655.2	3763.9
65°	754.4	769.0	985.1	1255.3	1315.6	1047.5	933.2	1531.7	2398.4	2321.5	1552.5
67.5°	465.5	498.8	660.9	943.6	1045.4	764.8	442.7	571.5	660.9	660.9	448.9
70°	282.7	299.3	440.6	642.2	717.0	492.6	322.1	322.1	318.0	311.8	268.1
72.5°	135.1	145.5	224.5	330.5	336.7	259.8	249.4	272.3	266.0	263.9	222.4
75°	58.2	62.4	79.0	103.9	118.5	110.2	151.7	195.4	201.6	195.4	160.0
77.5°	18.7	20.8	29.1	37.4	39.5	47.8	64.4	81.1	93.5	87.3	79.0
80°	2.1	4.2	8.3	18.7	29.1	37.4	47.8	54.0	60.3	60.3	56.1
82.5°	2.1	2.1	8.3	16.6	27.0	35.3	45.7	52.0	60.3	62.4	58.2
85°	0.0	2.1	6.2	14.5	22.9	22.9	20.8	20.8	14.5	14.5	14.5
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1893.4	1889.2	1833.1	1797.8	1779.1	1741.6	1718.8	1702.2	1689.7	1675.1	1677.2
5°	1918.3	1903.8	1810.2	1745.8	1668.9	1627.3	1592.0	1562.9	1544.2	1540.0	1531.7
7.5°	1989.0	1912.1	1770.7	1654.4	1556.7	1515.1	1483.9	1465.2	1473.5	1454.8	1469.4
10°	2043.0	1928.7	1722.9	1554.6	1456.9	1425.7	1409.1	1423.7	1444.4	1436.1	1425.7
12.5°	2109.5	1945.3	1646.0	1459.0	1367.5	1344.7	1373.8	1400.8	1442.4	1459.0	1438.2
15°	2184.3	1964.0	1548.4	1348.8	1290.6	1309.4	1359.2	1407.0	1448.6	1469.4	1481.9
17.5°	2275.8	1957.8	1452.8	1261.6	1217.9	1271.9	1332.2	1375.9	1438.2	1469.4	1461.1
20°	2361.0	1937.0	1346.8	1174.3	1176.3	1226.2	1276.1	1346.8	1380.0	1421.6	1407.0
22.5°	2442.0	1899.6	1236.6	1114.0	1114.0	1190.9	1215.8	1261.6	1290.6	1311.4	1309.4
25°	2556.4	1828.9	1145.2	1055.8	1080.7	1130.6	1151.4	1165.9	1153.5	1170.1	1172.2
27.5°	2637.4	1756.2	1070.3	1003.8	1049.6	1087.0	1080.7	1072.4	1043.3	1020.5	1035.0
30°	2724.7	1671.0	1005.9	968.5	993.4	1026.7	1001.8	976.8	931.1	893.7	895.8
32.5°	2849.4	1631.5	949.8	926.9	960.2	964.3	937.3	899.9	854.2	818.9	816.8
35°	3082.2	1606.6	902.0	899.9	906.2	908.2	881.2	835.5	816.8	787.7	798.1
37.5°	3315.0	1594.1	868.7	860.4	858.4	860.4	829.3	785.6	820.9	818.9	823.0
40°	3612.2	1650.2	820.9	810.6	812.6	812.6	773.1	760.7	823.0	829.3	831.3
42.5°	3913.5	1720.9	789.8	756.5	764.8	764.8	744.0	729.5	773.1	731.6	725.3
45°	4175.4	1824.8	756.5	702.5	723.3	733.7	727.4	702.5	675.5	604.8	604.8
47.5°	4260.6	1916.2	717.0	650.5	667.1	712.9	694.2	642.2	594.4	536.2	532.1
50°	4410.2	2016.0	685.9	590.2	625.6	681.7	663.0	611.0	557.0	515.4	517.5
52.5°	4564.0	2130.3	627.7	519.6	563.2	656.8	656.8	598.6	515.4	486.3	482.2
55°	4794.7	2126.1	523.7	426.1	503.0	619.3	629.7	536.2	461.4	438.5	438.5
56°	4828.0	2030.5	471.8	399.0	475.9	609.0	611.0	519.6	440.6	415.7	415.7
57.5°	4578.6	1833.1	413.6	365.8	442.7	590.2	592.3	505.0	424.0	388.6	384.5
60°	3522.8	1240.8	345.0	326.3	401.1	532.1	542.4	459.3	372.0	345.0	342.9
62.5°	1989.0	687.9	303.4	295.1	345.0	453.1	484.3	401.1	315.9	301.4	305.5
65°	908.2	378.3	255.6	239.0	278.5	349.2	390.7	330.5	259.8	243.2	243.2
67.5°	332.5	257.7	218.2	189.1	195.4	226.5	253.6	214.1	172.5	147.6	153.8
70°	236.9	216.1	191.2	164.2	151.7	147.6	145.5	120.5	85.2	66.5	70.7
72.5°	191.2	178.7	160.0	139.2	118.5	99.8	85.2	62.4	39.5	27.0	24.9
75°	137.2	130.9	116.4	99.8	83.1	70.7	58.2	39.5	20.8	10.4	10.4
77.5°	70.7	70.7	68.6	62.4	52.0	41.6	33.3	22.9	12.5	4.2	4.2
80°	54.0	58.2	60.3	54.0	47.8	37.4	27.0	16.6	8.3	2.1	2.1
82.5°	52.0	60.3	64.4	56.1	47.8	35.3	27.0	16.6	8.3	2.1	2.1
85°	12.5	12.5	18.7	20.8	27.0	29.1	22.9	14.5	6.2	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	0.0
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)