

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: P647897

Luminaire Tested: **GALN-SA4A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647897
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-SA4A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 12447.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

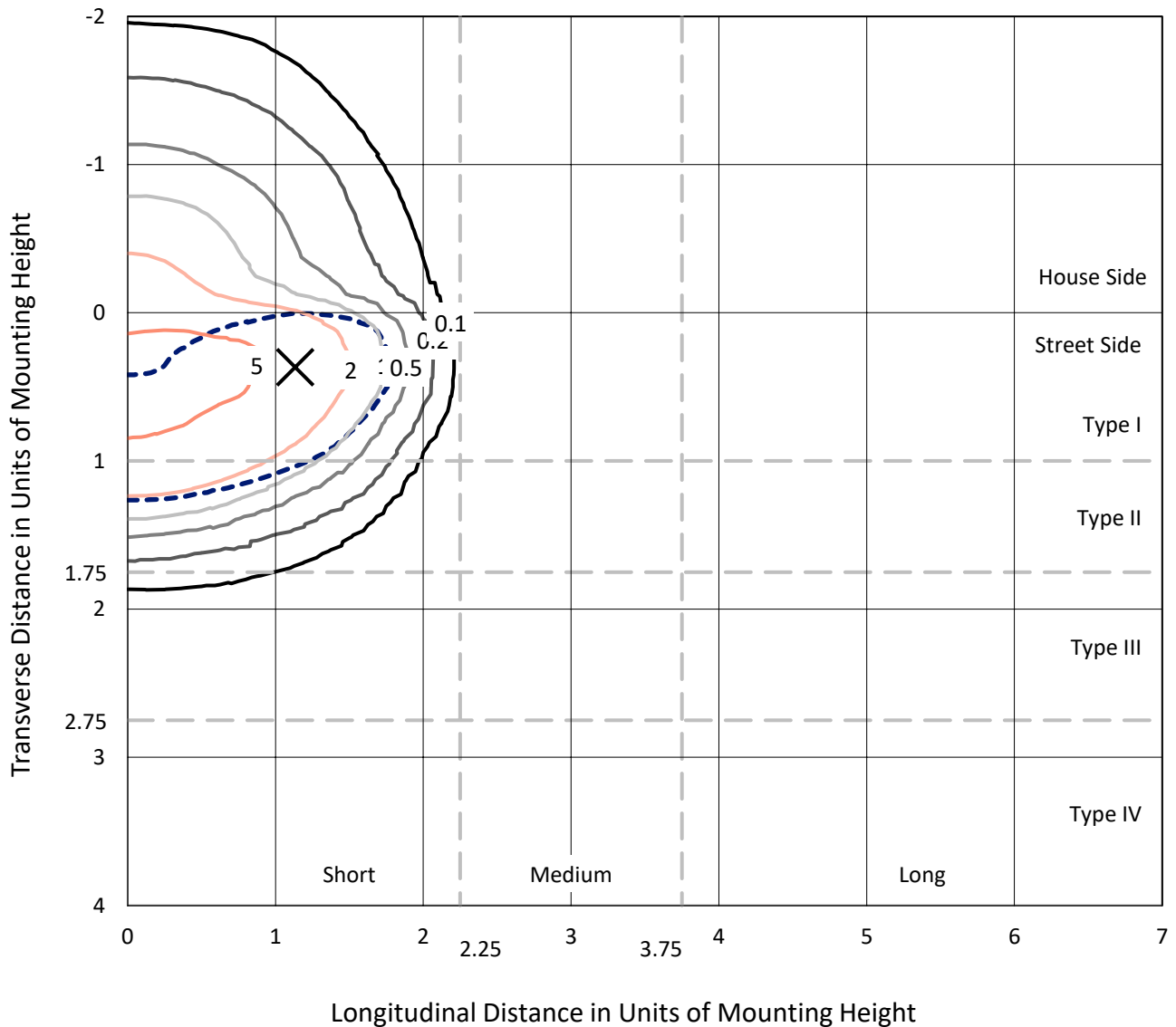
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

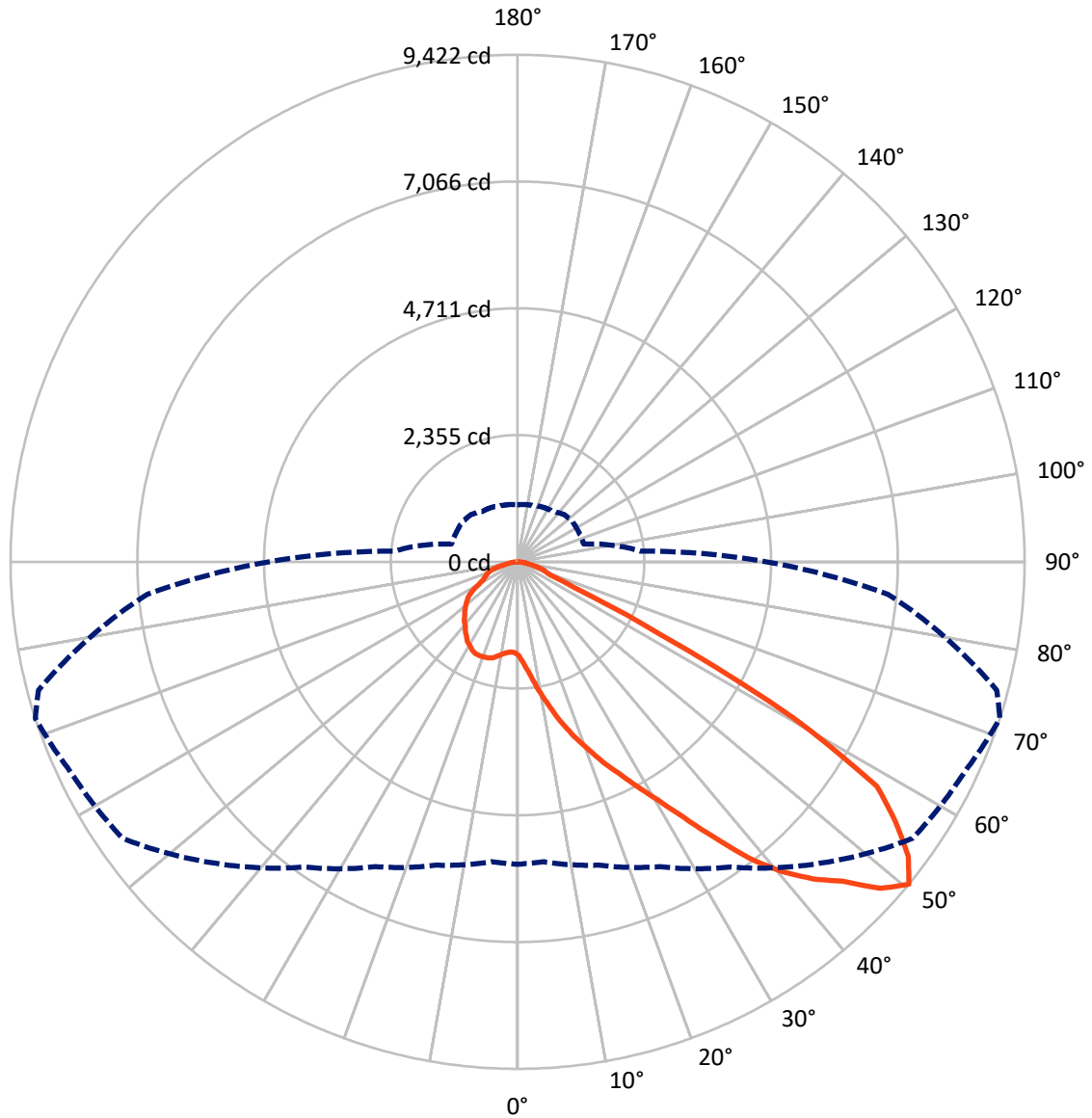
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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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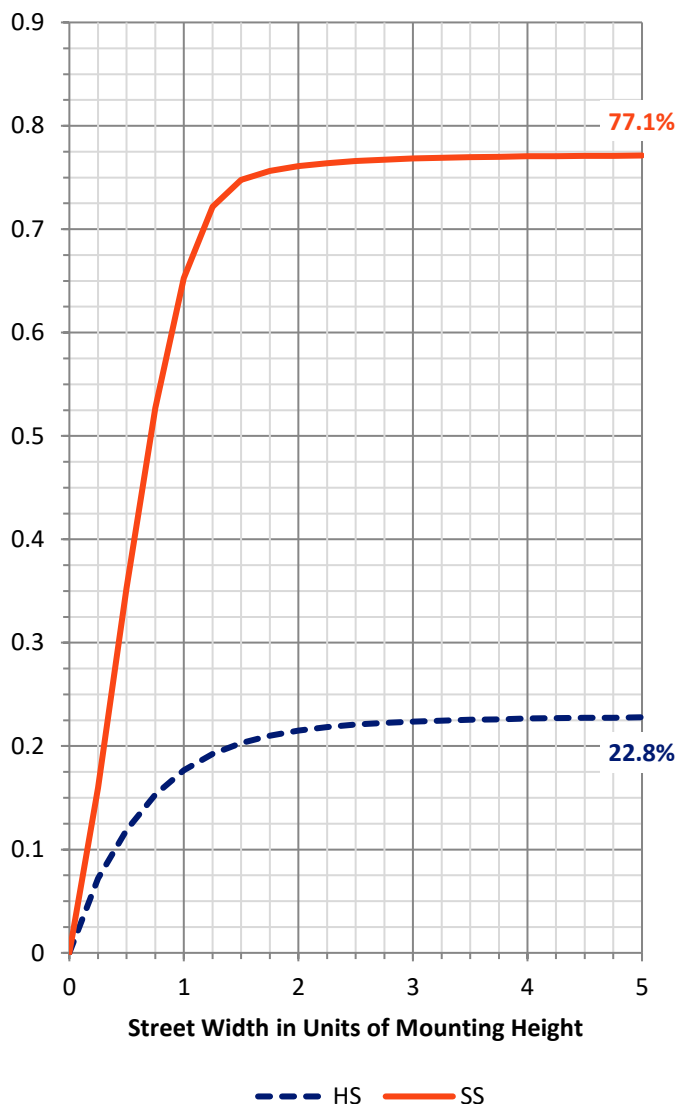
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2851.8	0.0	2851.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9595.6	0.0	9595.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	12447.4	0.0	12447.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	1.6
10°-20°	761.9	6.1
20°-30°	1477.4	11.9
30°-40°	2447.5	19.7
40°-50°	3424.5	27.5
50°-60°	2889.0	23.2
60°-70°	880.6	7.1
70°-80°	308.9	2.5
80°-90°	53.7	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°	12447.4	100.0
0°-180°	12447.4	100.0

Coefficient of Utilization



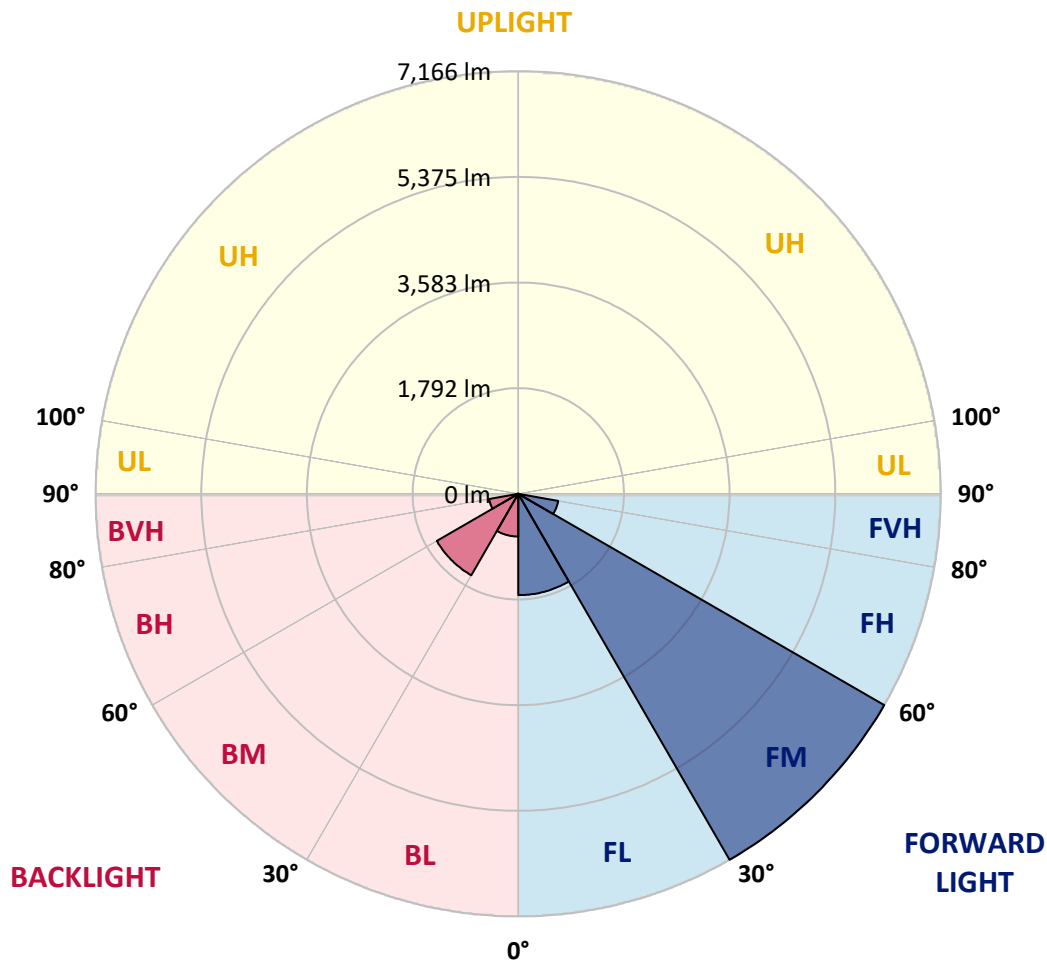
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.2	13.8			
FM (30°-60°)	7166.3	57.6			
FH (60°-80°)	687.1	5.5			G1/1800
FVH (80°-90°)	24.1	0.2			G1/100
BL (0°-30°)	724.9	5.8	B2/1000		
BM (30°-60°)	1594.8	12.8	B2/2500		
BH (60°-80°)	502.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	29.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8
2.5°	2228.7	2214.9	2173.3	2159.4	2110.1	2020.8	1990.0	1899.1	1860.6	1825.2	1783.6
5°	2818.6	2754.0	2749.3	2670.8	2556.8	2490.6	2293.4	2161.0	2039.3	1977.7	1863.7
7.5°	3194.5	3196.0	3196.0	3131.3	3040.5	2872.6	2695.4	2456.7	2273.4	2182.5	1988.4
10°	3551.8	3521.0	3504.1	3497.9	3436.3	3273.0	3083.6	2787.9	2536.8	2430.5	2082.4
12.5°	3804.4	3778.2	3816.7	3796.7	3752.1	3645.7	3467.1	3129.8	2815.6	2672.3	2233.4
15°	3924.6	3943.0	3973.8	4029.3	4009.3	3969.2	3772.1	3481.0	3115.9	2954.2	2367.3
17.5°	4109.3	4058.5	4095.5	4164.9	4220.3	4201.8	4089.4	3735.1	3413.2	3214.5	2547.6
20°	4238.8	4209.5	4228.0	4308.1	4349.6	4454.4	4395.8	4067.8	3698.1	3488.7	2760.2
22.5°	4608.4	4565.3	4505.2	4517.5	4532.9	4606.9	4620.7	4432.8	4029.3	3807.5	2961.9
25°	5064.4	5024.3	4953.4	4881.1	4836.4	4822.5	4870.3	4719.3	4346.6	4117.1	3179.1
27.5°	5566.4	5498.7	5454.0	5304.6	5184.5	5166.0	5142.9	5061.2	4722.4	4474.5	3424.0
30°	6054.7	6000.8	5940.7	5702.0	5577.2	5557.2	5443.3	5466.4	5130.5	4854.8	3701.2
32.5°	6424.4	6429.0	6291.9	6111.7	5994.6	5888.4	5846.7	5913.0	5654.3	5432.5	4010.8
35°	6723.2	6737.0	6606.1	6442.8	6316.5	6390.5	6372.0	6402.8	6279.6	6008.5	4371.3
37.5°	7014.3	6945.0	6804.8	6726.3	6660.0	6781.7	6938.8	6965.0	6988.1	6669.3	4790.2
40°	7062.0	7068.2	6986.6	7042.0	6958.8	7142.1	7507.2	7473.3	7567.2	7288.5	5244.5
42.5°	6994.2	7008.1	7040.5	7119.0	7319.2	7539.5	8081.7	7943.1	8057.0	7809.0	5686.6
45°	6883.4	6826.4	6866.4	7165.2	7511.8	8001.6	8606.9	8499.1	8462.1	8254.2	6213.3
47.5°	6353.5	6412.1	6536.8	6905.0	7425.5	8081.7	8979.6	8955.0	9065.9	8919.5	6692.4
50°	5618.8	5595.7	5836.0	6250.3	6921.9	7924.6	8959.6	9182.9	9421.7	9218.3	6906.5
52.5°	4207.9	4331.2	4537.6	5052.0	6010.1	7068.2	8522.2	8895.0	9089.0	9045.8	6734.0
55°	2660.0	2697.0	2821.7	3433.2	4295.8	5672.8	7305.4	8169.4	8516.0	8677.8	6575.3
57.5°	1292.3	1223.0	1375.4	1866.8	2481.3	3815.2	5634.2	7115.9	7869.2	8161.8	6230.3
60°	674.6	700.8	760.9	936.5	1283.0	1980.8	3511.8	4742.4	5893.0	6342.8	4722.4
62.5°	559.1	568.4	608.4	696.2	853.3	1139.8	1792.8	2311.9	3005.0	3410.1	2686.2
65°	474.4	479.0	522.2	580.7	680.8	802.5	922.6	965.8	1169.0	1199.9	954.9
67.5°	395.8	400.4	446.7	502.1	566.8	599.2	629.9	626.9	650.0	640.7	639.2
70°	305.0	309.6	357.4	415.9	448.2	429.7	525.2	546.8	556.0	563.8	576.1
72.5°	220.3	229.5	266.5	308.0	291.1	334.3	432.8	465.2	477.5	482.1	497.5
75°	160.2	163.3	172.5	160.2	184.9	232.6	305.0	345.0	360.4	365.0	388.1
77.5°	70.9	72.4	73.9	92.4	118.6	144.8	181.7	214.1	235.7	241.8	248.0
80°	37.0	38.5	47.8	63.2	84.7	106.3	132.5	151.0	164.8	166.3	172.5
82.5°	23.1	24.7	33.9	44.6	60.1	78.5	97.0	112.4	123.2	124.7	126.3
85°	10.8	13.9	20.0	27.7	40.0	50.8	52.4	44.6	47.8	49.3	46.2
87.5°	3.1	4.6	6.2	4.6	6.2	6.2	7.7	9.2	9.2	9.2	10.8
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°	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8	1732.8
2.5°	1760.5	1746.6	1692.8	1672.7	1620.3	1629.6	1601.9	1600.3	1594.2	1592.6	1591.1
5°	1803.6	1760.5	1695.8	1646.5	1617.3	1614.2	1594.2	1594.2	1600.3	1604.9	1594.2
7.5°	1874.5	1825.2	1715.9	1669.6	1643.4	1638.8	1625.0	1614.2	1628.0	1623.4	1611.1
10°	1956.1	1869.9	1754.3	1714.3	1671.2	1660.4	1660.4	1665.0	1641.9	1649.6	1637.3
12.5°	2047.0	1931.5	1803.6	1757.4	1706.6	1700.4	1697.4	1663.5	1675.8	1669.6	1638.8
15°	2162.5	2002.3	1866.8	1788.2	1745.1	1717.4	1677.3	1671.2	1663.5	1648.1	1634.2
17.5°	2287.3	2079.3	1896.0	1797.5	1732.8	1712.7	1682.0	1649.6	1626.5	1629.6	1618.8
20°	2393.6	2150.2	1906.8	1806.7	1723.5	1685.0	1637.3	1617.3	1592.6	1591.1	1589.6
22.5°	2519.9	2245.6	1922.3	1782.0	1695.8	1655.7	1623.4	1588.0	1571.1	1549.5	1560.3
25°	2670.8	2282.7	1925.3	1768.2	1675.8	1604.9	1588.0	1549.5	1543.3	1512.5	1518.7
27.5°	2780.1	2302.6	1900.7	1725.1	1629.6	1575.7	1544.9	1517.1	1506.3	1483.2	1477.1
30°	2926.5	2333.5	1848.3	1671.2	1583.4	1523.3	1504.8	1498.7	1467.9	1443.2	1440.1
32.5°	3092.8	2353.5	1814.4	1615.7	1535.6	1489.4	1498.7	1469.4	1430.9	1409.3	1403.1
35°	3225.3	2361.2	1729.7	1552.5	1503.3	1474.0	1463.3	1457.1	1401.6	1381.6	1366.2
37.5°	3427.0	2344.2	1658.9	1507.9	1467.9	1457.1	1447.8	1406.3	1343.1	1313.8	1292.3
40°	3662.7	2339.6	1568.0	1444.7	1434.0	1446.3	1418.6	1353.9	1266.1	1233.8	1218.3
42.5°	3889.2	2371.9	1511.0	1410.9	1397.0	1401.6	1363.1	1266.1	1223.0	1204.5	1179.8
45°	4268.1	2439.7	1417.0	1358.5	1352.3	1349.3	1303.1	1201.4	1176.8	1153.7	1149.1
47.5°	4610.0	2395.1	1356.9	1304.6	1310.7	1293.8	1195.2	1162.9	1135.2	1112.1	1104.3
50°	4630.0	2288.8	1272.2	1263.0	1264.5	1235.3	1141.3	1119.8	1084.3	1069.0	1058.1
52.5°	4525.3	2114.7	1193.7	1196.7	1201.4	1153.7	1075.1	1059.7	1030.4	1008.9	1002.7
55°	4231.0	1843.7	1116.7	1129.0	1141.3	1050.5	1025.8	987.3	964.2	933.4	934.9
57.5°	3727.4	1484.8	1008.9	1028.9	1055.1	954.9	936.5	888.7	854.8	830.2	827.1
60°	2498.3	1056.6	847.1	854.8	913.4	873.4	871.8	824.0	777.8	756.3	743.9
62.5°	1474.0	807.1	731.6	723.9	722.4	745.5	784.0	767.0	707.0	665.4	677.7
65°	771.6	697.7	680.8	654.6	639.2	633.1	662.3	670.0	629.9	585.3	582.2
67.5°	648.5	648.5	634.5	625.3	603.8	577.6	559.1	534.5	528.3	516.0	500.6
70°	589.9	605.3	600.7	579.1	560.6	531.4	483.7	443.6	405.0	391.2	400.4
72.5°	514.4	529.9	529.9	519.1	494.4	449.8	403.6	357.4	325.0	300.4	297.3
75°	395.8	403.6	422.0	409.7	377.3	349.6	301.9	254.2	223.3	200.2	195.6
77.5°	252.6	264.9	264.9	263.4	240.3	214.1	183.3	149.4	126.3	109.4	104.8
80°	167.9	175.6	181.7	175.6	160.2	140.2	117.1	94.0	77.0	63.2	60.1
82.5°	123.2	132.5	137.1	130.9	115.5	100.1	83.2	66.2	49.3	38.5	35.4
85°	47.8	49.3	55.4	66.2	64.7	63.2	50.8	37.0	27.7	20.0	18.5
87.5°	12.3	10.8	12.3	12.3	10.8	9.2	9.2	9.2	9.2	4.6	6.2
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)