

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: P648287

Luminaire Tested: **GALN-SA2B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648287
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-SA2B-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA 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: 7638.9 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

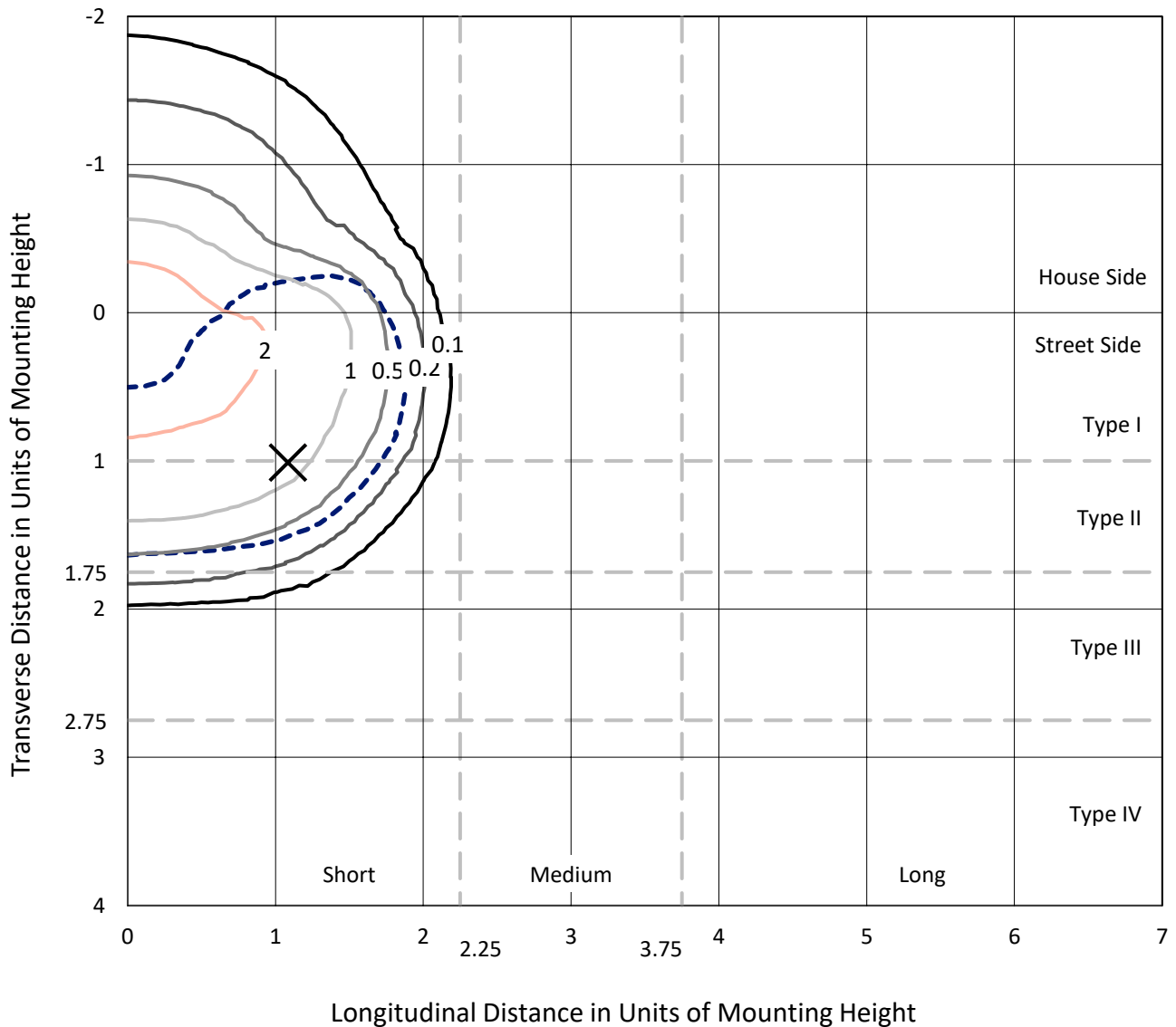
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

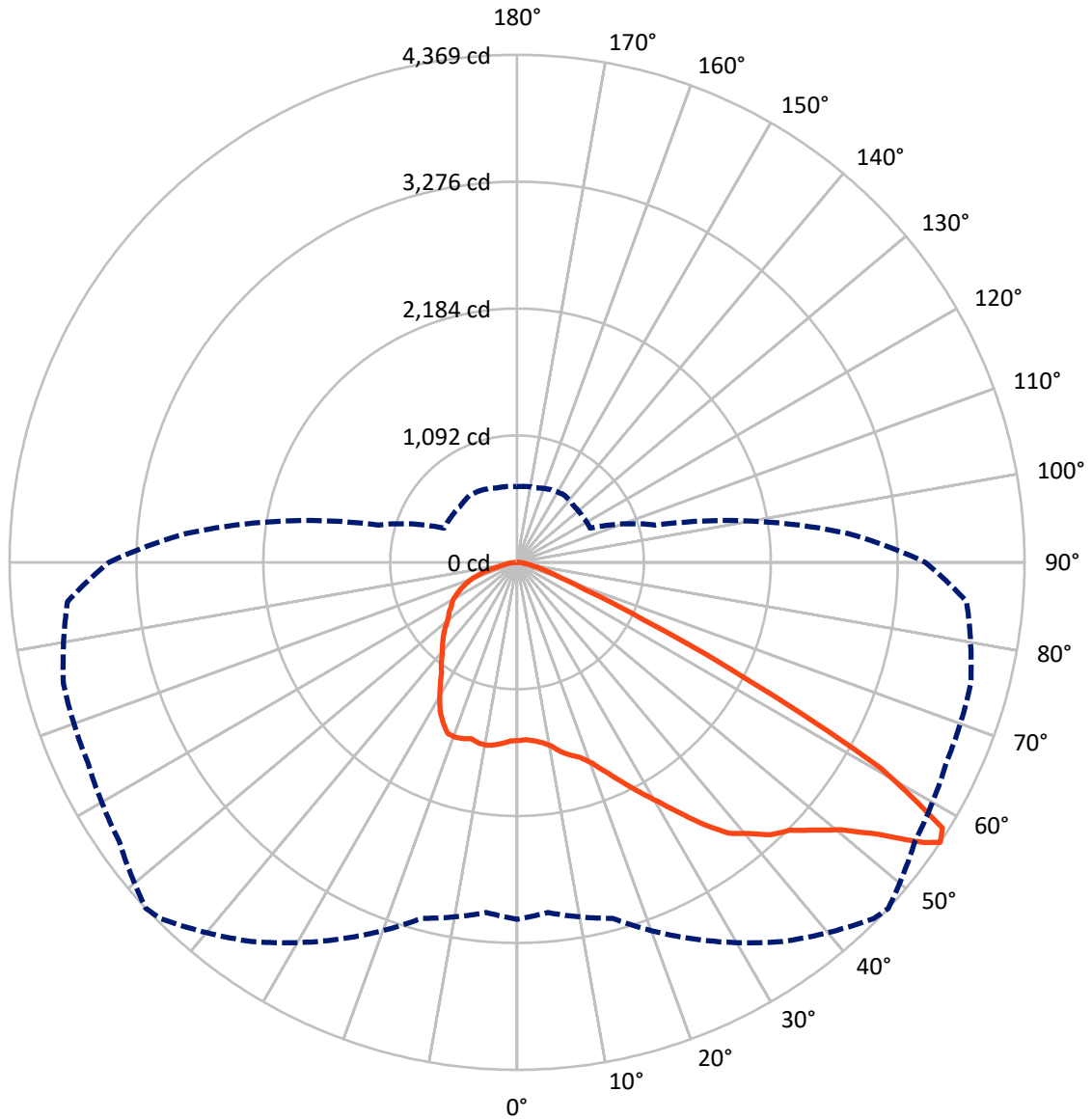
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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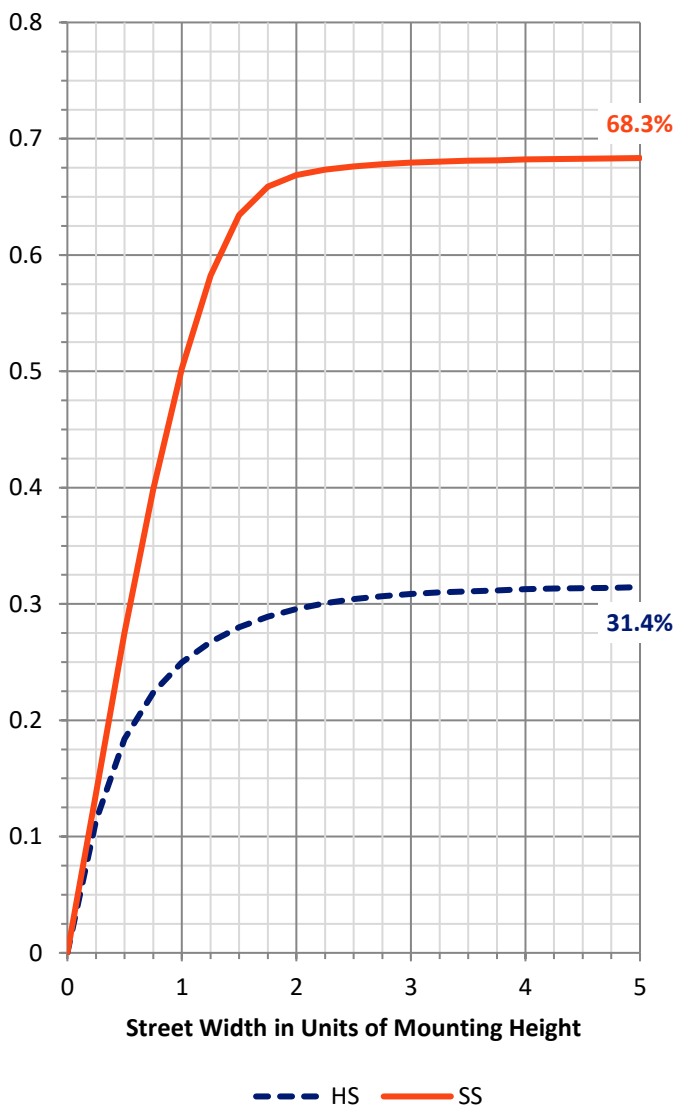
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.7	0.0	2420.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	5218.3	0.0	5218.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	7638.9	0.0	7638.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.0
10°-20°	471.6	6.2
20°-30°	833.7	10.9
30°-40°	1252.2	16.4
40°-50°	1718.6	22.5
50°-60°	2047.4	26.8
60°-70°	876.2	11.5
70°-80°	248.0	3.2
80°-90°	41.7	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°	7638.9	100.0
0°-180°	7638.9	100.0

Coefficient of Utilization

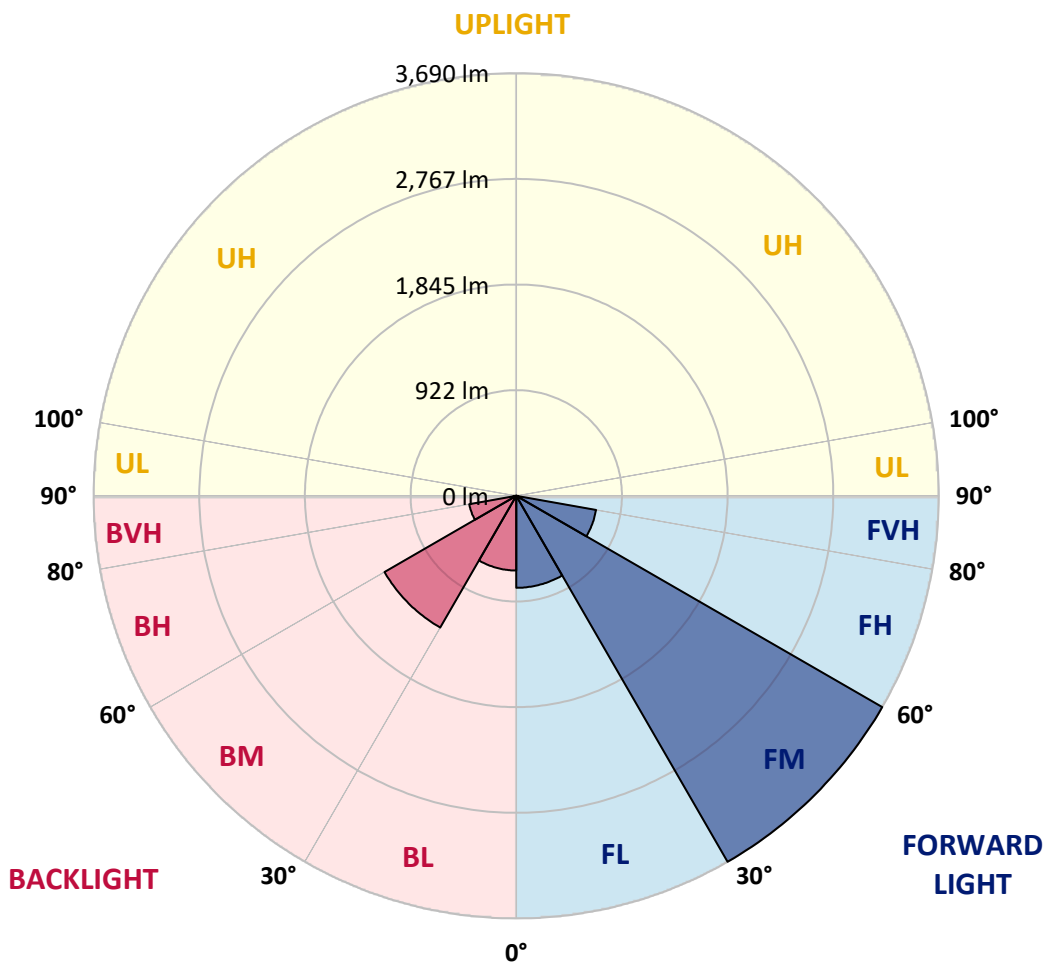


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.1	10.5			
FM (30°-60°)	3689.8	48.3			
FH (60°-80°)	707.6	9.3			G1/1800
FVH (80°-90°)	17.7	0.2			G1/100
BL (0°-30°)	651.7	8.5	B2/1000		
BM (30°-60°)	1328.4	17.4	B2/2500		
BH (60°-80°)	416.5	5.5	B1/500		G1/500
BVH (80°-90°)	24.0	0.3			G1/100
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°	47°	55°	65°	75°	85°
0°	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4
2.5°	1528.6	1525.7	1523.7	1539.3	1533.4	1534.4	1528.6	1534.4	1538.4	1529.6	1542.2
5°	1525.7	1534.4	1526.6	1531.5	1544.2	1540.2	1544.2	1555.9	1552.9	1550.0	1546.1
7.5°	1552.9	1553.9	1559.7	1561.7	1565.6	1561.7	1567.6	1578.3	1575.3	1558.8	1560.8
10°	1591.9	1593.9	1594.8	1605.5	1612.4	1613.4	1606.6	1596.8	1595.8	1618.2	1602.6
12.5°	1636.7	1631.9	1643.5	1647.4	1655.3	1664.0	1672.8	1652.3	1665.0	1666.0	1647.4
15°	1702.0	1706.9	1693.2	1693.2	1696.1	1697.2	1721.5	1711.7	1709.8	1699.1	1706.9
17.5°	1799.4	1766.3	1765.4	1751.7	1749.8	1757.5	1766.3	1774.1	1800.4	1779.0	1737.1
20°	1870.5	1878.3	1850.1	1833.6	1836.4	1854.0	1845.2	1880.3	1898.8	1863.7	1822.8
22.5°	1996.3	1969.9	1976.8	1939.7	1942.6	1961.2	1960.2	1996.3	2006.9	1951.4	1892.0
25°	2081.0	2074.2	2080.0	2050.8	2054.7	2069.3	2092.6	2152.1	2134.5	2073.2	1935.8
27.5°	2204.7	2191.1	2186.2	2175.5	2171.6	2210.6	2237.8	2301.2	2288.5	2198.9	2013.8
30°	2331.4	2322.6	2327.5	2283.6	2299.2	2382.0	2389.8	2476.6	2470.7	2312.8	2100.5
32.5°	2419.1	2423.9	2432.7	2408.4	2477.5	2543.7	2570.0	2668.5	2673.3	2508.7	2268.0
35°	2560.3	2543.7	2548.6	2576.9	2609.0	2729.9	2772.7	2838.0	2878.9	2714.3	2428.8
37.5°	2649.0	2666.5	2646.1	2690.9	2774.6	2919.8	2958.8	3026.0	3068.9	2916.9	2648.0
40°	2787.3	2759.1	2773.7	2805.8	2891.5	3080.6	3069.8	3139.0	3152.7	3089.3	2852.5
42.5°	2936.4	2922.7	2902.3	2975.3	3047.4	3184.8	3206.2	3174.0	3243.3	3257.9	3144.8
45°	3114.6	3131.2	3134.1	3136.1	3199.4	3319.2	3290.0	3261.7	3341.7	3447.9	3326.0
47.5°	3280.3	3227.7	3265.7	3318.3	3407.9	3408.9	3443.0	3375.7	3460.5	3555.0	3489.8
50°	3335.8	3310.4	3361.1	3460.5	3598.8	3613.5	3617.4	3521.9	3565.7	3640.7	3546.2
52.5°	3314.4	3305.6	3435.2	3589.1	3791.8	3865.8	3885.2	3767.4	3791.8	3757.6	3670.9
55°	3212.1	3238.4	3368.9	3682.6	3993.5	4222.4	4259.4	4110.4	3955.4	3981.7	3886.3
56°	3071.8	3026.0	3172.2	3576.4	3984.7	4338.3	4368.5	4182.4	4077.2	4043.1	3884.3
57.5°	2606.1	2546.7	2738.6	3217.9	3763.5	4294.4	4316.8	4212.6	4056.7	3987.6	3600.8
60°	1525.7	1554.9	1798.5	2219.3	2903.2	3520.9	3595.9	3672.0	3567.7	3257.9	2680.1
62.5°	736.5	718.0	892.4	1272.4	1769.2	2247.6	2225.2	2438.5	2555.5	2314.8	1692.3
65°	385.8	383.8	487.1	694.6	972.3	1180.8	1201.3	1316.2	1477.0	1192.5	859.3
67.5°	283.5	291.3	343.0	488.1	625.5	638.1	635.2	692.7	708.3	599.2	528.1
70°	222.1	226.1	264.0	371.2	465.7	416.9	408.2	415.0	460.8	480.3	457.0
72.5°	160.7	164.7	196.8	250.4	291.3	284.5	290.3	328.3	384.8	405.3	380.9
75°	107.2	110.1	127.6	152.9	172.4	186.1	196.8	240.6	293.2	304.9	293.2
77.5°	74.1	77.0	88.6	108.1	110.1	118.9	122.8	143.2	175.4	190.0	182.2
80°	41.9	41.9	47.8	55.5	68.2	79.9	81.8	98.4	113.0	122.8	124.7
82.5°	19.5	20.4	25.4	34.1	44.8	55.5	57.5	68.2	78.9	88.6	91.6
85°	9.7	10.7	14.6	20.4	27.2	33.1	32.2	33.1	35.1	33.1	34.1
87.5°	2.9	2.9	3.9	4.9	3.9	4.9	4.9	5.9	6.8	7.8	8.8
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°	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4	1534.4
2.5°	1543.2	1546.1	1526.6	1545.2	1538.4	1537.3	1551.0	1549.0	1553.9	1552.0	1540.2
5°	1544.2	1537.3	1557.8	1539.3	1548.1	1566.5	1553.9	1583.1	1568.5	1578.3	1556.8
7.5°	1574.4	1576.3	1572.4	1580.3	1576.3	1585.1	1578.3	1585.1	1573.4	1574.4	1593.9
10°	1600.7	1594.8	1601.6	1591.9	1598.7	1595.8	1580.3	1575.3	1579.2	1574.4	1587.1
12.5°	1649.4	1638.7	1633.8	1622.1	1614.3	1585.1	1560.8	1547.1	1565.6	1568.5	1562.7
15°	1699.1	1700.0	1677.7	1651.3	1602.6	1558.8	1564.7	1569.5	1569.5	1577.3	1562.7
17.5°	1730.3	1730.3	1709.8	1657.2	1607.5	1582.2	1576.3	1560.8	1547.1	1545.2	1544.2
20°	1784.8	1768.2	1721.5	1656.2	1605.5	1593.9	1550.0	1513.0	1484.7	1475.0	1474.0
22.5°	1847.2	1805.3	1740.0	1658.2	1602.6	1586.0	1504.2	1448.7	1398.0	1376.6	1379.5
25°	1904.6	1837.4	1750.7	1649.4	1591.9	1512.1	1420.4	1343.5	1290.9	1273.3	1264.5
27.5°	1944.6	1871.5	1750.7	1657.2	1552.0	1429.2	1335.7	1237.3	1191.5	1179.8	1181.8
30°	1998.1	1914.4	1780.9	1640.6	1472.1	1322.0	1210.0	1145.7	1118.4	1108.6	1115.5
32.5°	2123.9	2026.4	1822.8	1600.7	1377.6	1214.9	1124.3	1088.2	1048.3	1028.8	1022.0
35°	2260.2	2132.6	1863.7	1533.4	1271.4	1117.4	1061.0	1027.8	980.1	958.6	962.5
37.5°	2453.1	2269.0	1866.7	1422.4	1156.4	1062.9	1011.2	959.6	920.7	887.5	877.8
40°	2713.3	2455.1	1859.9	1305.5	1063.9	998.6	960.6	896.3	852.5	829.1	834.0
42.5°	2942.2	2673.3	1831.6	1173.0	980.1	954.8	911.9	848.5	805.7	781.4	779.4
45°	3135.1	2834.1	1778.0	1059.9	909.9	906.0	856.4	807.7	773.5	751.1	760.9
47.5°	3313.4	2963.7	1697.2	947.0	845.6	853.5	805.7	775.5	754.0	733.6	732.7
50°	3377.7	2961.7	1626.0	853.5	794.0	790.1	788.2	756.0	733.6	716.1	723.9
52.5°	3484.9	2994.8	1549.0	789.1	747.2	748.2	755.0	731.6	706.3	695.6	705.3
55°	3638.8	2999.7	1379.5	714.1	708.3	715.1	715.1	699.5	678.1	669.3	664.5
56°	3513.1	2854.5	1237.3	694.6	688.8	688.8	707.3	689.7	663.4	656.6	650.8
57.5°	3240.4	2500.9	1035.6	671.3	662.5	676.1	685.8	667.4	643.0	633.3	639.1
60°	2234.9	1692.3	778.5	620.6	620.6	643.0	650.8	623.5	612.8	611.8	604.0
62.5°	1304.5	986.0	608.9	574.8	576.8	595.2	601.1	585.5	571.9	588.4	596.3
65°	691.7	588.4	522.2	526.1	527.0	541.7	567.0	566.0	565.1	569.9	570.9
67.5°	500.7	489.1	474.4	470.6	472.5	483.2	508.6	528.1	527.0	515.4	506.6
70°	446.2	429.6	420.9	421.9	414.1	426.7	447.2	459.9	437.5	423.8	418.0
72.5°	371.2	366.3	360.5	361.4	345.9	343.0	319.5	319.5	313.7	309.8	316.6
75°	283.5	281.6	284.5	279.6	263.0	245.5	231.8	219.2	199.7	191.9	188.0
77.5°	179.2	185.1	191.9	181.2	174.4	161.7	148.1	135.4	119.8	111.0	111.0
80°	121.8	126.7	131.5	129.6	121.8	110.1	99.4	85.7	75.0	68.2	67.3
82.5°	92.6	96.5	103.3	95.4	87.7	77.9	69.1	59.4	49.7	41.9	41.9
85°	33.1	38.0	41.9	45.8	48.7	49.7	42.8	35.1	28.3	22.4	21.5
87.5°	8.8	9.7	10.7	9.7	9.7	9.7	10.7	9.7	8.8	6.8	6.8
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)