

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: P652249

Luminaire Tested: **GALN-SA2B-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5852.5 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

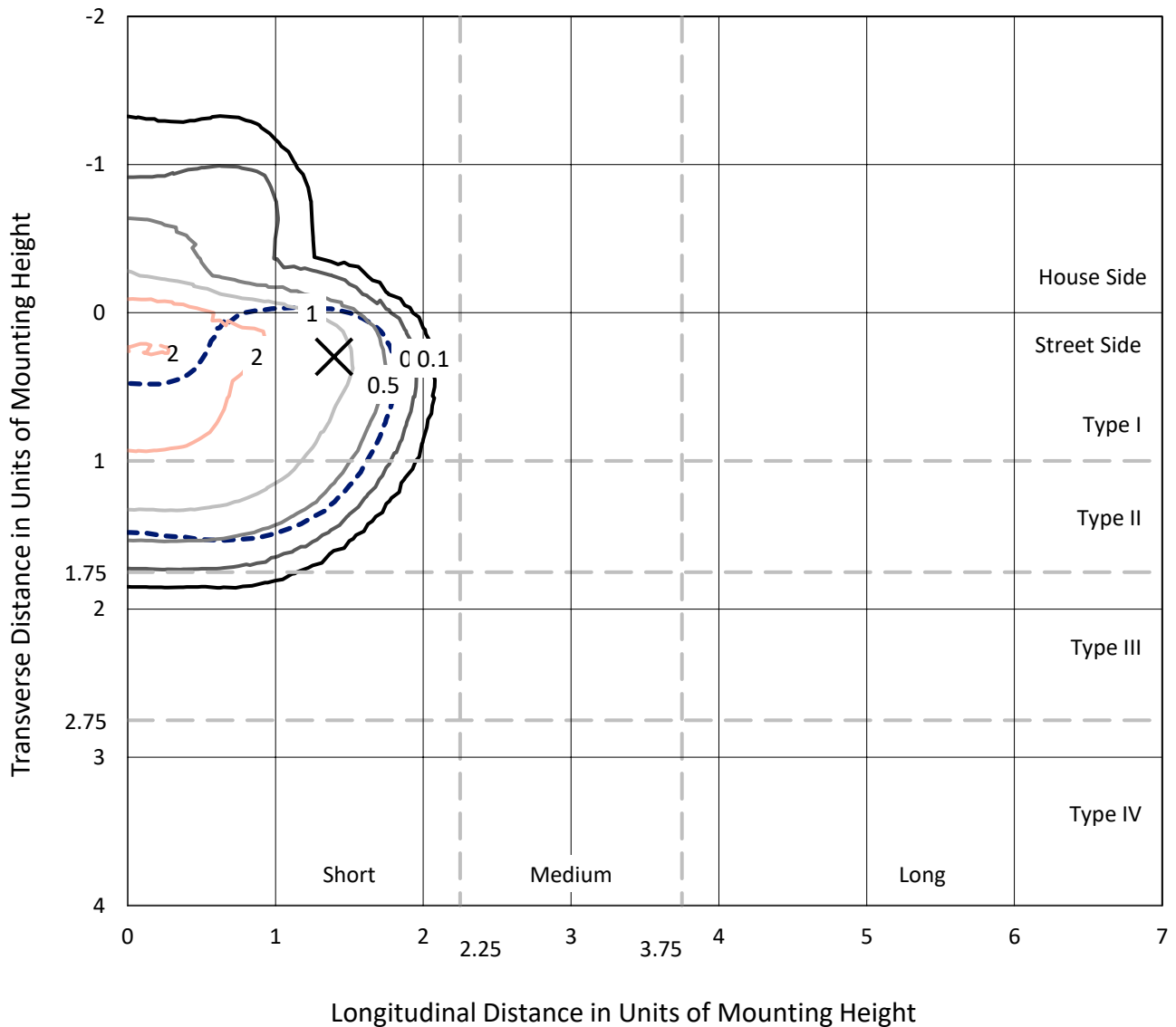
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

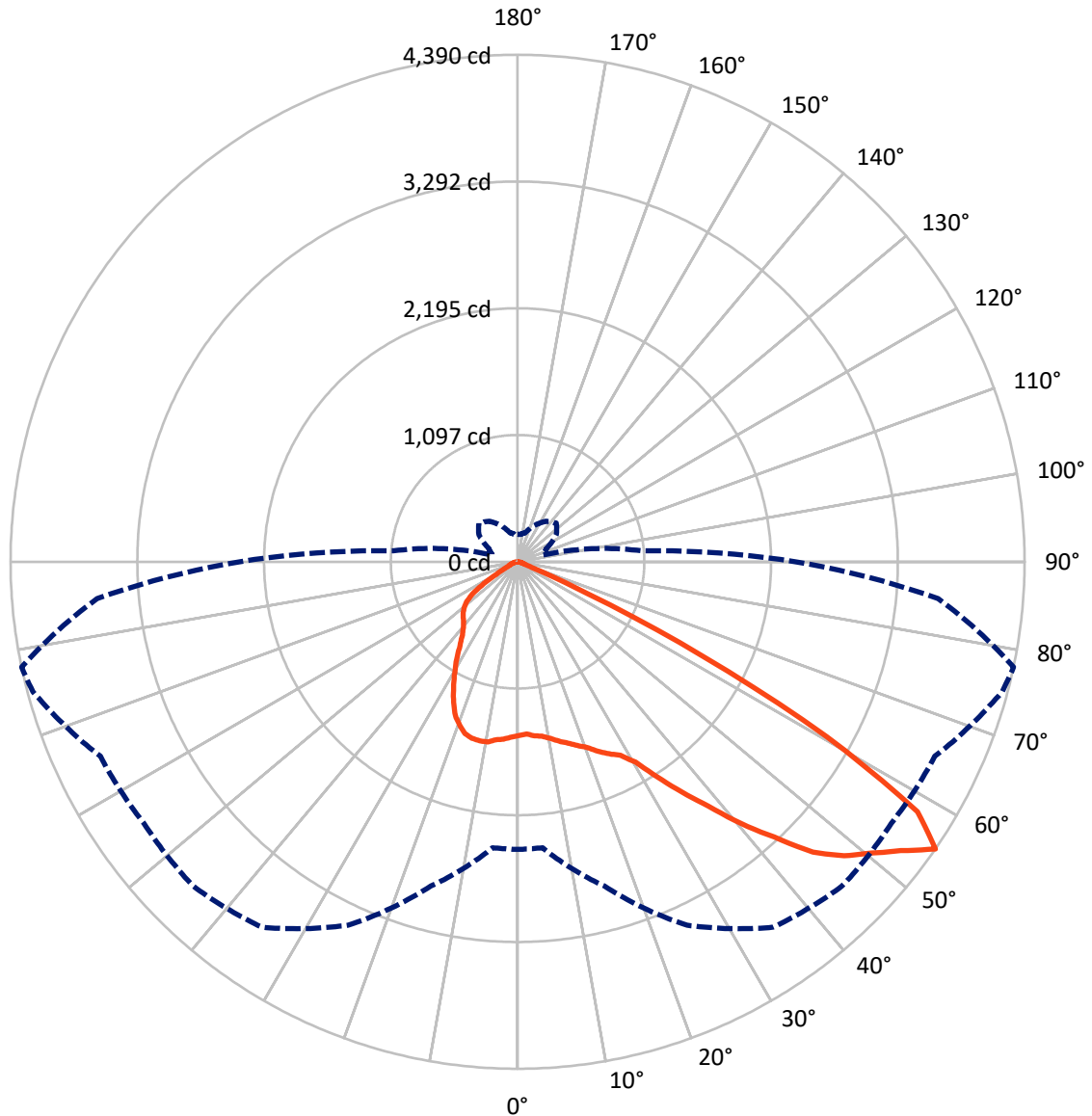
✕ Max cd  
 - - - 1/2 Max cd



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 78-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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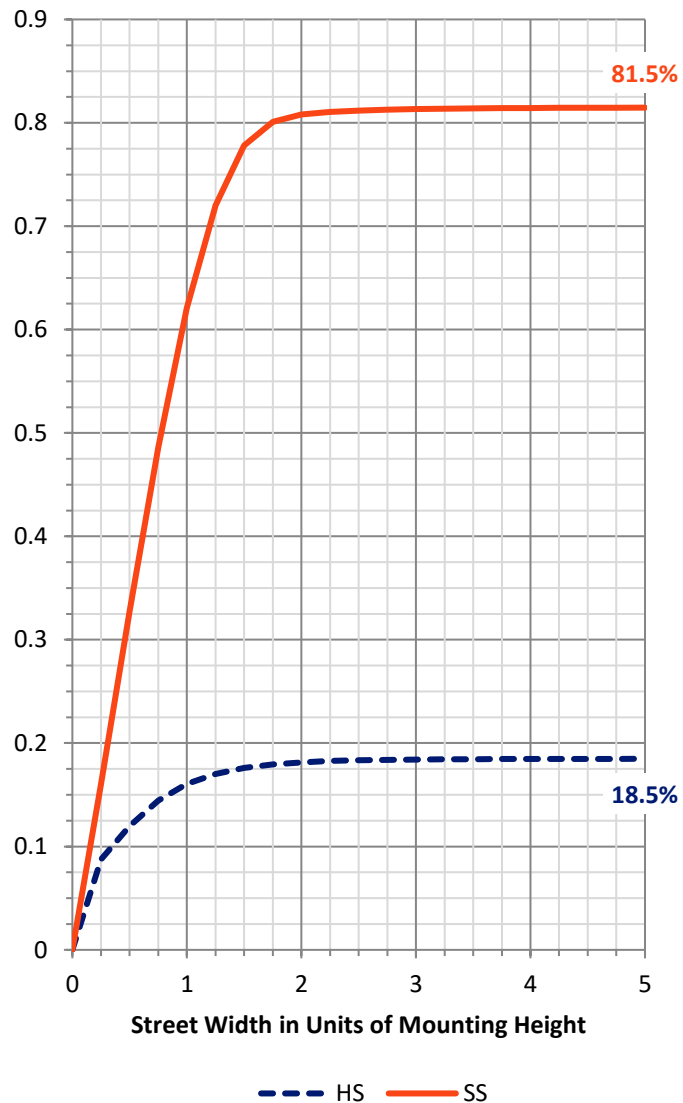
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1087.0	0.0	1087.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	4765.5	0.0	4765.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	5852.5	0.0	5852.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	2.3
10°-20°	355.1	6.1
20°-30°	622.4	10.6
30°-40°	1026.3	17.5
40°-50°	1493.3	25.5
50°-60°	1692.1	28.9
60°-70°	483.8	8.3
70°-80°	37.6	0.6
80°-90°	7.8	0.1
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°	5852.5	100.0
0°-180°	5852.5	100.0

**Coefficient of Utilization**

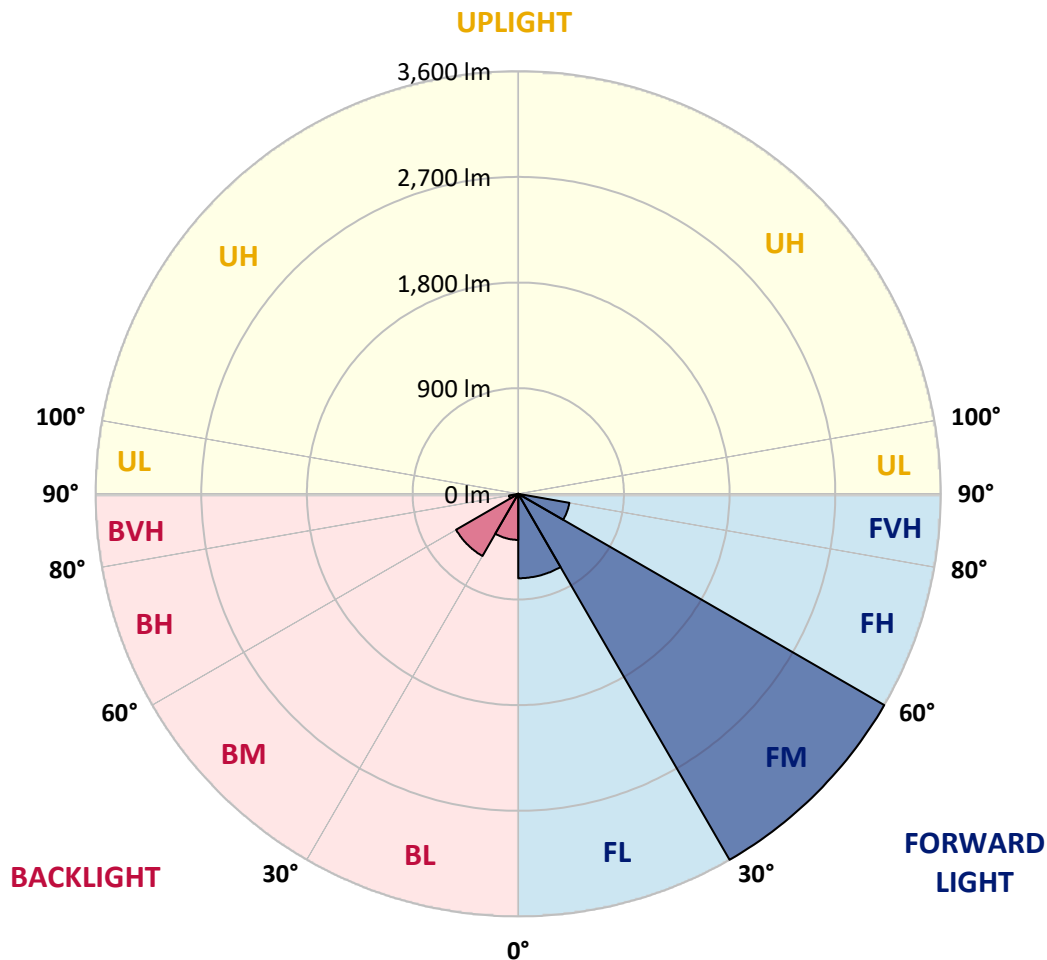


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.4	12.3			
FM (30°-60°)	3600.2	61.5			
FH (60°-80°)	442.0	7.6			G0/660
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	392.2	6.7	B1/500		
BM (30°-60°)	611.5	10.4	B1/1000		
BH (60°-80°)	79.3	1.4	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1414.7	1428.3	1430.4	1447.1	1446.1	1474.4	1482.7	1483.8	1502.6	1493.2	1517.2
5°	1375.0	1367.6	1364.4	1393.8	1402.1	1427.3	1448.2	1460.7	1499.4	1513.0	1538.2
7.5°	1339.4	1339.4	1341.5	1367.6	1364.4	1396.9	1418.9	1457.6	1514.1	1525.6	1555.9
10°	1304.8	1292.3	1308.0	1335.2	1358.2	1372.8	1418.9	1455.5	1521.5	1554.9	1596.8
12.5°	1287.1	1293.3	1295.4	1315.3	1340.4	1384.4	1409.4	1470.2	1573.8	1593.6	1638.6
15°	1399.0	1386.5	1356.1	1338.3	1359.2	1380.2	1443.0	1504.7	1600.9	1629.2	1679.4
17.5°	1528.8	1518.3	1493.2	1445.0	1398.0	1436.7	1485.9	1542.4	1630.3	1672.1	1746.4
20°	1698.2	1681.5	1656.4	1562.2	1521.5	1479.6	1531.9	1598.8	1678.4	1716.1	1792.4
22.5°	1900.2	1900.2	1843.7	1729.7	1644.9	1605.1	1627.1	1665.9	1731.8	1783.0	1858.4
25°	2110.6	2104.3	2053.0	1934.7	1791.4	1744.3	1769.4	1796.6	1814.4	1842.6	1892.9
27.5°	2351.2	2314.6	2249.7	2118.9	1992.3	1901.2	1928.5	1904.4	1882.4	1897.0	1969.3
30°	2514.4	2537.5	2454.8	2329.2	2210.0	2108.5	2113.7	2092.7	1992.3	2013.2	2056.2
32.5°	2684.0	2698.6	2652.6	2583.5	2464.2	2346.0	2303.1	2285.2	2210.0	2219.4	2177.5
35°	2825.2	2853.4	2812.6	2782.3	2747.8	2652.6	2534.4	2591.9	2470.5	2447.5	2338.7
37.5°	2954.9	2946.6	2994.7	2963.3	2956.0	2889.0	2759.3	2770.8	2689.2	2684.0	2558.4
40°	3071.1	3073.2	3139.1	3153.8	3124.5	3005.1	2816.8	2907.8	2973.8	2980.1	2818.9
42.5°	3167.4	3195.6	3252.1	3370.4	3326.4	3127.6	2876.5	2975.9	3220.8	3259.5	3065.9
45°	3251.1	3308.7	3378.7	3484.4	3459.3	3301.3	3025.1	3116.1	3484.4	3585.9	3298.1
47.5°	3256.4	3331.6	3408.1	3565.0	3596.4	3394.4	3178.9	3337.9	3693.7	3803.6	3467.7
50°	3235.4	3275.2	3427.9	3598.5	3669.6	3546.2	3394.4	3524.2	3896.7	3965.7	3553.5
52.5°	2987.4	3017.8	3324.3	3629.8	3801.5	3717.8	3680.1	3783.7	4103.9	4155.1	3634.0
55°	2490.4	2485.2	2906.8	3471.9	3862.2	3972.0	3949.0	3985.7	4343.5	4389.5	3654.0
57.5°	1703.5	1798.7	2162.9	2891.1	3490.7	3912.4	3936.5	3875.7	4064.1	4081.9	3185.2
60°	918.7	958.5	1251.5	1929.5	2657.8	3188.3	3251.1	3141.2	3126.6	3076.4	2273.8
62.5°	365.2	385.1	551.4	955.4	1448.2	1937.9	2072.9	2027.9	1931.6	1799.7	1177.1
65°	173.7	186.3	274.2	446.8	642.4	807.8	942.8	984.6	726.2	654.0	388.2
67.5°	118.2	127.7	199.8	255.3	229.2	239.6	311.8	289.8	170.6	145.4	107.8
70°	90.0	96.3	160.1	173.7	102.5	72.2	80.6	75.4	70.1	71.1	70.1
72.5°	63.8	69.0	117.2	102.5	45.0	33.5	42.9	51.3	51.3	51.3	50.2
75°	38.7	44.0	68.0	39.8	17.8	17.8	27.2	34.6	36.6	37.7	35.6
77.5°	19.8	25.1	23.0	11.5	11.5	13.6	19.8	24.1	26.2	26.2	25.1
80°	4.2	4.2	4.2	6.3	11.5	14.6	19.8	22.0	25.1	25.1	23.0
82.5°	0.0	1.0	3.1	6.3	10.4	13.6	18.8	22.0	25.1	26.2	24.1
85°	0.0	1.0	2.1	4.2	7.3	8.4	7.3	6.3	6.3	6.3	6.3
87.5°	0.0	0.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
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°	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7	1504.7
2.5°	1519.4	1522.5	1517.2	1516.2	1512.0	1524.6	1494.2	1486.9	1505.7	1488.0	1492.1
5°	1539.2	1546.5	1537.1	1521.5	1498.4	1462.8	1432.5	1392.7	1373.9	1360.3	1358.2
7.5°	1553.8	1559.1	1549.7	1499.4	1430.4	1340.4	1273.4	1224.2	1185.6	1174.0	1155.2
10°	1613.5	1614.6	1567.5	1456.5	1321.5	1203.3	1100.8	1025.4	986.7	962.7	952.2
12.5°	1653.2	1651.2	1555.9	1371.8	1191.8	1034.9	917.7	826.6	791.0	779.5	772.2
15°	1703.5	1692.0	1528.8	1285.0	1024.4	854.9	749.2	686.4	683.3	676.0	683.3
17.5°	1743.2	1710.8	1489.0	1126.9	864.3	704.2	635.1	639.3	647.7	655.1	656.1
20°	1808.2	1741.2	1398.0	988.8	715.7	603.8	602.7	621.6	642.4	650.8	659.2
22.5°	1857.3	1753.7	1300.6	841.3	594.3	563.0	580.7	609.0	624.7	633.0	645.6
25°	1875.1	1719.2	1170.9	693.7	535.7	544.1	571.3	590.1	610.1	619.5	614.2
27.5°	1892.9	1701.4	1016.0	571.3	504.3	531.6	554.6	573.4	579.7	592.2	600.6
30°	1935.8	1639.7	876.8	493.9	488.6	523.2	539.9	546.2	563.0	570.3	570.3
32.5°	1970.3	1615.6	729.3	457.3	486.6	527.4	529.5	529.5	531.6	526.3	524.2
35°	2041.4	1533.0	597.4	435.3	485.5	528.4	533.6	515.9	467.8	448.9	443.6
37.5°	2129.4	1479.6	500.1	430.1	492.8	541.0	549.3	482.4	419.6	389.2	384.0
40°	2236.1	1441.9	436.3	428.0	509.6	570.3	545.1	456.2	374.6	330.7	328.6
42.5°	2360.6	1407.4	393.4	426.9	530.5	600.6	541.0	434.2	328.6	299.2	303.4
45°	2460.0	1388.6	364.2	419.6	537.8	618.4	544.1	395.5	309.7	290.9	293.0
47.5°	2537.5	1348.8	340.1	407.0	536.8	624.7	515.9	379.8	300.3	305.5	310.7
50°	2539.6	1295.4	309.7	379.8	521.1	613.2	483.4	365.2	298.2	320.2	330.7
52.5°	2511.3	1220.0	277.3	341.1	484.5	573.4	454.1	358.9	288.8	286.7	299.2
55°	2410.8	1078.8	222.9	276.3	409.1	473.0	428.0	347.4	260.5	236.5	238.6
57.5°	1948.3	773.3	164.2	197.8	289.8	346.3	386.1	342.2	234.4	200.9	201.9
60°	1206.5	438.4	120.3	135.0	179.0	210.3	312.9	318.1	209.2	169.5	167.4
62.5°	619.5	216.6	93.1	95.2	109.8	123.5	214.5	266.8	189.4	161.1	161.1
65°	207.2	106.7	81.6	73.3	73.3	76.4	129.8	185.2	160.1	135.0	135.0
67.5°	89.0	79.6	71.1	63.8	58.6	55.4	73.3	107.8	119.3	102.5	98.4
70°	69.0	66.9	61.7	53.4	46.0	41.9	42.9	55.4	68.0	65.9	63.8
72.5°	51.3	51.3	49.2	41.9	35.6	30.4	28.3	29.3	32.5	33.5	34.6
75°	35.6	36.6	36.6	32.5	26.2	22.0	18.8	15.7	12.5	10.4	9.4
77.5°	24.1	25.1	27.2	24.1	19.8	14.6	11.5	8.4	5.2	2.1	2.1
80°	20.9	24.1	26.2	24.1	20.9	15.7	11.5	6.3	3.1	0.0	0.0
82.5°	22.0	24.1	27.2	23.0	19.8	14.6	11.5	7.3	3.1	1.0	0.0
85°	5.2	5.2	6.3	7.3	9.4	10.4	8.4	5.2	3.1	1.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	0.0	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)