

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: P527009

Luminaire Tested: **GALN-SA2A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4889 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

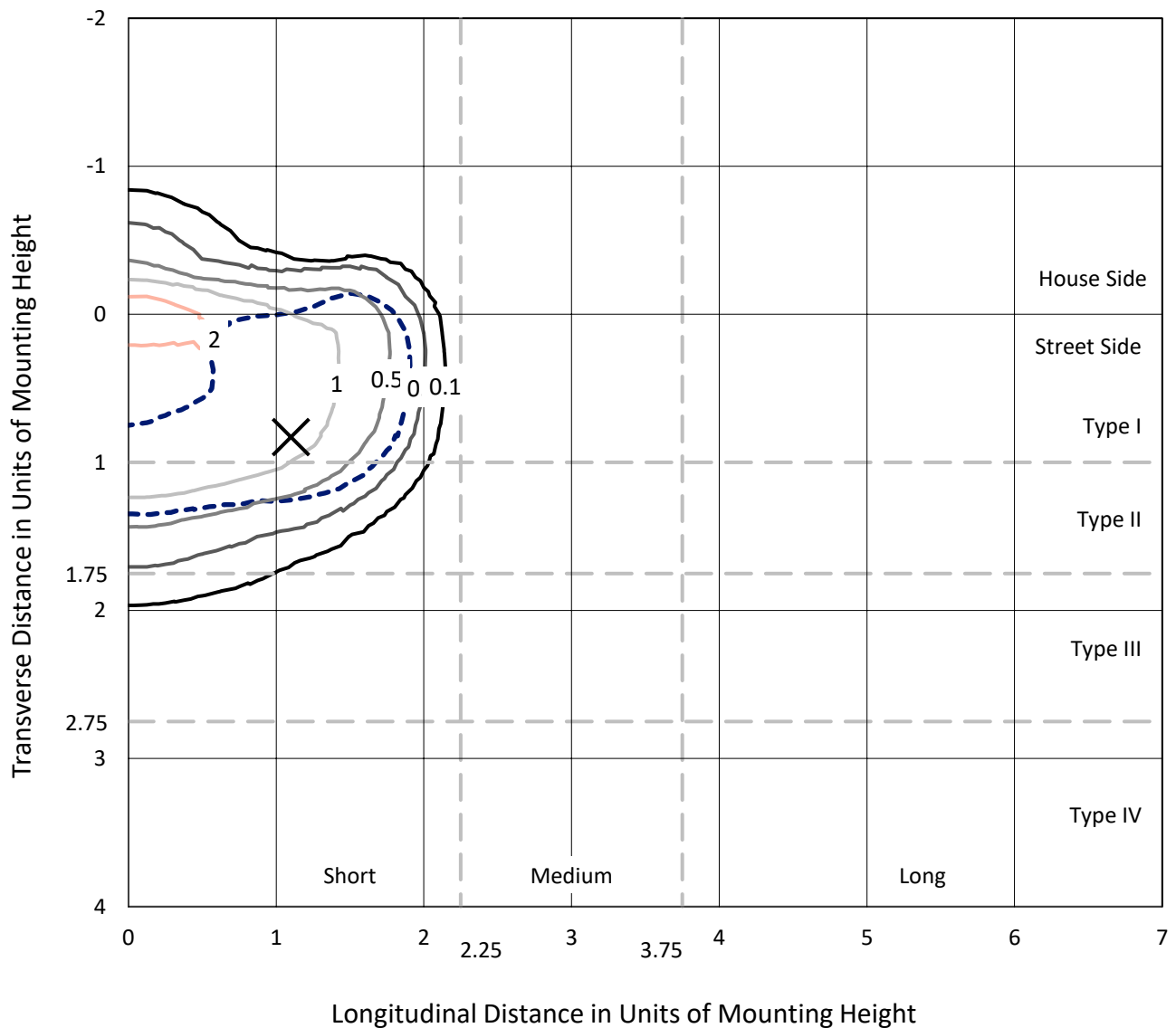
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

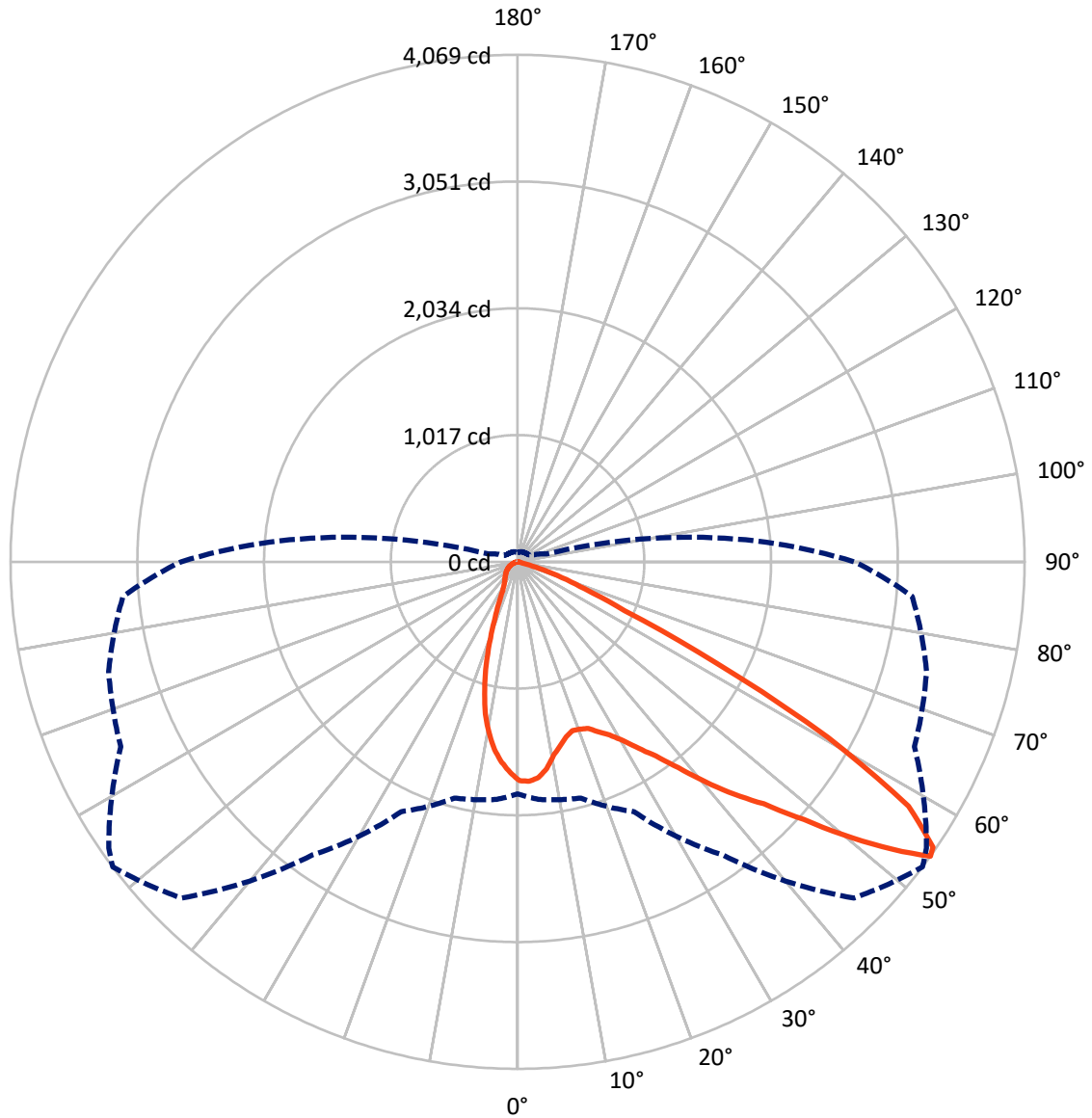
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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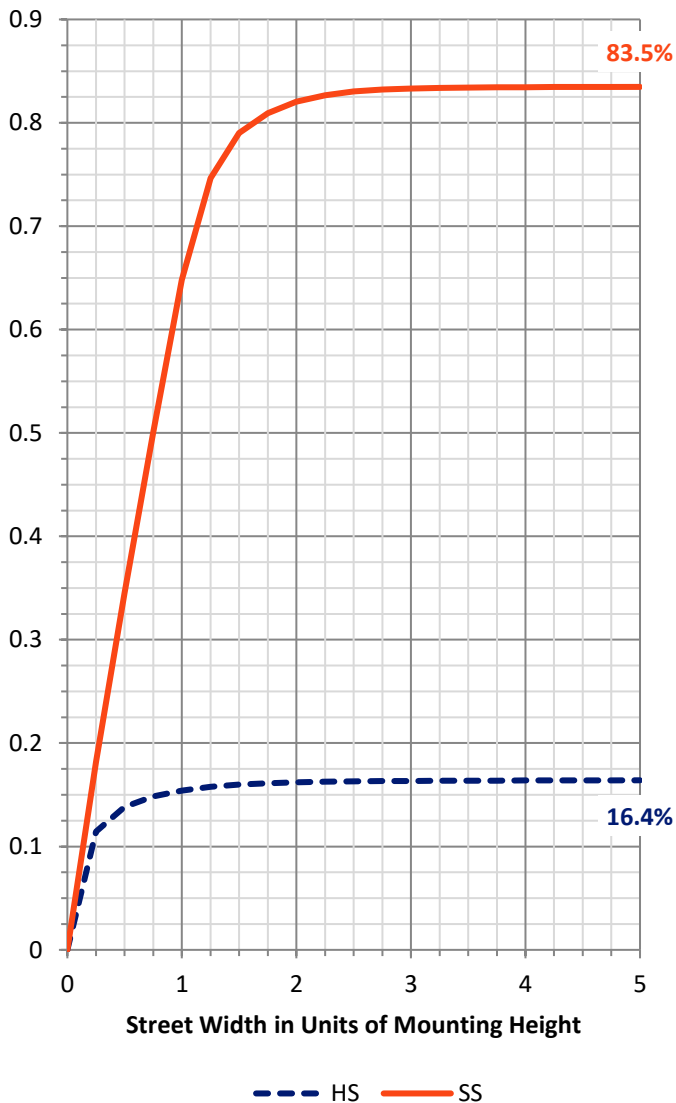
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.9	0.0	808.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	4080.1	0.0	4080.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	4889.0	0.0	4889.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.1
10°-20°	345.4	7.1
20°-30°	490.9	10.0
30°-40°	757.6	15.5
40°-50°	1187.9	24.3
50°-60°	1379.9	28.2
60°-70°	521.4	10.7
70°-80°	49.6	1.0
80°-90°	5.6	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°	4889.0	100.0
0°-180°	4889.0	100.0

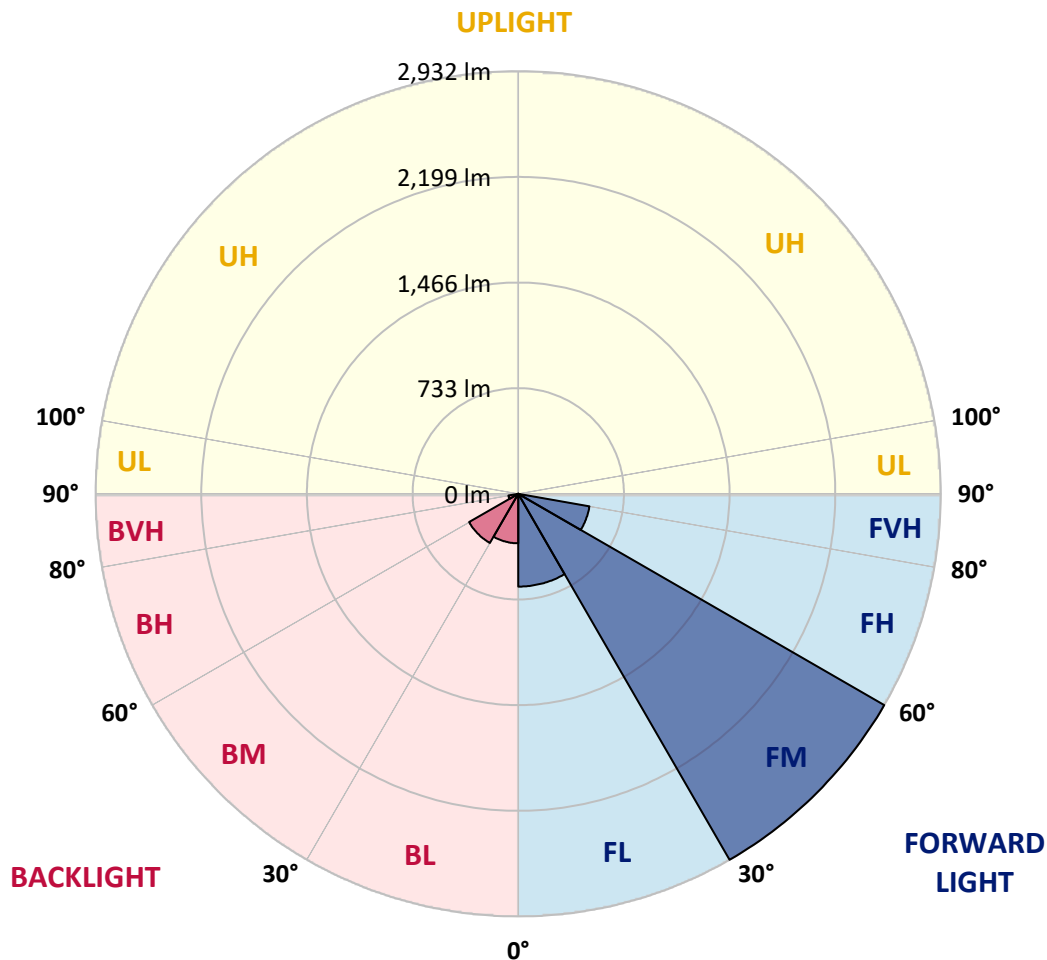


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.8	13.2			
FM (30°-60°)	2931.8	60.0			
FH (60°-80°)	501.7	10.3			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	343.3	7.0	B1/500		
BM (30°-60°)	393.6	8.1	B1/1000		
BH (60°-80°)	69.3	1.4	B0/110		G0/110
BVH (80°-90°)	2.7	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°	53°	55°	65°	75°	85°
0°	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1746.9	1731.5	1746.9	1748.8	1759.7	1769.7	1763.3	1777.9	1769.7	1760.6	1757.9
5°	1605.8	1626.7	1627.6	1660.4	1653.1	1713.2	1739.7	1732.4	1777.0	1774.3	1767.9
7.5°	1479.2	1471.0	1481.9	1520.1	1568.4	1637.6	1675.9	1675.0	1738.7	1784.3	1779.7
10°	1361.7	1360.8	1383.5	1413.6	1454.6	1527.4	1580.3	1606.7	1706.0	1775.2	1785.2
12.5°	1282.4	1278.8	1303.4	1328.0	1392.6	1449.1	1516.5	1529.3	1643.1	1743.3	1759.7
15°	1230.5	1238.7	1240.5	1287.9	1328.9	1403.6	1456.4	1482.8	1614.0	1717.8	1780.6
17.5°	1221.4	1232.3	1233.2	1272.4	1316.1	1379.0	1425.4	1460.9	1589.4	1730.5	1781.5
20°	1239.6	1233.2	1238.7	1263.3	1306.1	1366.2	1433.6	1445.5	1581.2	1736.9	1791.6
22.5°	1291.5	1289.7	1276.0	1296.1	1326.1	1389.0	1452.7	1471.0	1604.9	1769.7	1799.8
25°	1348.9	1358.9	1346.2	1343.4	1364.4	1426.3	1511.0	1534.7	1684.1	1828.9	1825.3
27.5°	1456.4	1446.4	1446.4	1433.6	1428.2	1458.2	1573.9	1613.0	1772.4	1905.4	1854.4
30°	1559.3	1570.2	1562.0	1566.6	1530.2	1527.4	1663.1	1711.4	1929.1	2022.0	1916.3
32.5°	1722.3	1707.8	1721.4	1709.6	1661.3	1612.1	1784.3	1834.4	2118.5	2155.9	2009.3
35°	1858.1	1851.7	1910.0	1908.2	1829.8	1781.5	1912.7	1987.4	2250.6	2316.2	2118.5
37.5°	2051.1	2039.3	2105.8	2137.7	2067.5	1995.6	2096.7	2183.2	2373.6	2444.6	2230.6
40°	2249.7	2279.8	2369.0	2421.9	2347.2	2251.5	2321.7	2348.1	2455.6	2528.4	2307.1
42.5°	2501.1	2544.8	2635.9	2681.4	2675.1	2571.2	2550.3	2549.4	2514.8	2504.7	2363.6
45°	2742.5	2726.1	2866.3	2965.6	3045.8	3015.7	2770.7	2743.4	2608.6	2540.3	2378.1
47.5°	2848.1	2842.6	2938.3	3115.0	3388.2	3425.6	3091.3	2985.6	2767.0	2689.6	2457.4
50°	2711.5	2739.7	2834.4	3030.3	3449.2	3734.3	3484.8	3342.7	2951.9	2871.8	2645.0
52.5°	2265.2	2284.3	2374.5	2623.1	3241.6	3916.5	3861.8	3779.9	3291.7	3158.7	2972.0
54°	1862.6	1913.6	1962.8	2212.4	2871.8	3815.4	4068.6	4005.8	3513.0	3397.3	3177.8
55°	1622.2	1652.2	1687.7	1936.4	2615.9	3644.2	4044.9	4050.4	3661.5	3472.0	3316.3
57.5°	1185.0	1205.9	1169.5	1279.7	1796.1	2959.2	3699.7	3847.3	3861.8	3584.0	3401.0
60°	905.3	914.5	873.5	890.8	1116.7	2031.1	2861.8	3039.4	3483.9	3132.3	2880.9
62.5°	702.2	704.1	703.1	733.2	769.6	1195.0	1789.7	1947.3	2401.8	2224.2	1956.4
65°	517.3	509.1	523.7	614.8	656.7	751.4	942.7	1057.5	1305.2	1102.1	787.9
67.5°	335.2	337.9	352.5	457.2	562.9	576.5	580.2	571.1	572.0	315.1	197.6
70°	201.3	205.8	201.3	258.7	402.6	413.5	378.0	368.9	287.8	74.7	73.8
72.5°	119.3	112.9	101.1	111.1	167.6	200.4	180.3	179.4	112.9	43.7	43.7
75°	50.1	45.5	37.3	33.7	44.6	42.8	42.8	38.3	30.1	29.1	27.3
77.5°	10.0	10.0	7.3	8.2	10.9	12.8	15.5	15.5	18.2	18.2	17.3
80°	0.0	0.9	2.7	5.5	8.2	11.8	13.7	13.7	15.5	15.5	12.8
82.5°	0.0	0.9	2.7	5.5	7.3	10.9	13.7	13.7	15.5	16.4	13.7
85°	0.0	0.9	2.7	4.6	7.3	9.1	9.1	8.2	6.4	5.5	3.6
87.5°	0.0	0.0	0.9	1.8	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1764.2	1763.3	1741.5	1706.0	1697.8	1667.7	1664.1	1645.8	1655.9	1622.2	1618.5
5°	1749.7	1738.7	1712.3	1689.6	1623.1	1575.7	1538.4	1492.8	1466.4	1471.0	1453.7
7.5°	1770.6	1742.4	1695.9	1616.7	1535.6	1452.7	1408.1	1315.2	1281.5	1231.4	1224.1
10°	1748.8	1727.8	1655.9	1524.7	1412.7	1293.4	1188.6	1085.7	1007.4	973.7	966.4
12.5°	1746.9	1710.5	1590.3	1444.5	1282.4	1111.2	959.1	830.7	753.2	709.5	699.5
15°	1718.7	1675.0	1516.5	1320.7	1096.6	883.5	717.7	593.8	534.6	509.1	516.4
17.5°	1721.4	1655.9	1442.7	1189.5	913.5	648.5	490.0	426.3	410.8	417.2	417.2
20°	1718.7	1613.0	1353.5	1038.3	699.5	449.9	359.8	337.0	347.0	367.1	362.5
22.5°	1704.1	1593.0	1271.5	878.9	514.6	333.4	288.7	289.6	305.1	329.7	335.2
25°	1715.1	1548.4	1167.7	717.7	375.3	266.0	250.5	256.8	273.2	291.5	295.1
27.5°	1706.9	1516.5	1059.3	557.4	274.2	228.6	227.7	235.0	242.3	255.9	255.9
30°	1716.0	1487.4	952.7	414.4	225.9	209.5	205.8	211.3	218.6	221.3	220.4
32.5°	1749.7	1465.5	829.8	309.7	199.5	191.3	191.3	191.3	190.4	194.0	194.9
35°	1823.4	1469.1	721.4	239.5	182.2	175.8	173.1	169.4	167.6	169.4	170.3
37.5°	1903.6	1467.3	609.3	204.0	169.4	163.9	157.6	152.1	151.2	153.0	150.3
40°	1939.1	1484.6	505.5	183.1	157.6	151.2	141.2	136.6	137.5	139.4	137.5
42.5°	1987.4	1490.1	438.1	166.7	146.6	136.6	130.2	124.8	123.9	126.6	125.7
45°	1986.5	1459.1	367.1	157.6	136.6	125.7	117.5	112.9	112.9	114.8	115.7
47.5°	2044.8	1454.6	315.1	149.4	129.3	118.4	108.4	104.7	103.8	103.8	102.0
50°	2180.5	1518.3	275.1	140.3	120.2	110.2	102.0	97.5	93.8	92.0	91.1
52.5°	2445.5	1716.9	244.1	129.3	110.2	102.0	94.7	91.1	86.5	82.0	81.1
54°	2702.4	1921.8	242.3	120.2	102.0	96.5	90.2	88.3	82.9	76.5	74.7
55°	2818.1	2041.1	248.7	112.9	96.5	92.9	87.4	85.6	80.2	72.9	72.0
57.5°	2913.7	2087.6	245.0	93.8	87.4	86.5	82.0	79.2	72.9	62.8	61.0
60°	2345.3	1578.4	175.8	82.9	80.2	78.3	74.7	72.9	64.7	53.7	52.8
62.5°	1481.9	908.1	112.0	72.9	70.1	67.4	62.8	61.0	53.7	42.8	40.1
65°	631.2	376.2	75.6	64.7	60.1	55.6	51.9	49.2	42.8	31.9	31.0
67.5°	163.9	133.9	62.8	56.5	50.1	43.7	41.0	36.4	29.1	21.9	20.9
70°	73.8	67.4	52.8	47.4	40.1	33.7	30.1	25.5	19.1	14.6	13.7
72.5°	43.7	42.8	40.1	35.5	30.1	25.5	21.9	17.3	12.8	8.2	8.2
75°	27.3	26.4	27.3	24.6	20.9	19.1	16.4	11.8	7.3	3.6	3.6
77.5°	16.4	16.4	16.4	15.5	14.6	14.6	11.8	7.3	3.6	0.9	0.9
80°	12.8	12.8	13.7	12.8	12.8	12.8	10.0	5.5	1.8	0.0	0.0
82.5°	12.8	13.7	15.5	14.6	12.8	10.9	9.1	5.5	1.8	0.0	0.0
85°	3.6	2.7	4.6	6.4	9.1	8.2	6.4	4.6	1.8	0.0	0.0
87.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	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)