

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: P526414

Luminaire Tested: **GALN-SA1B-760-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-760-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4871 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

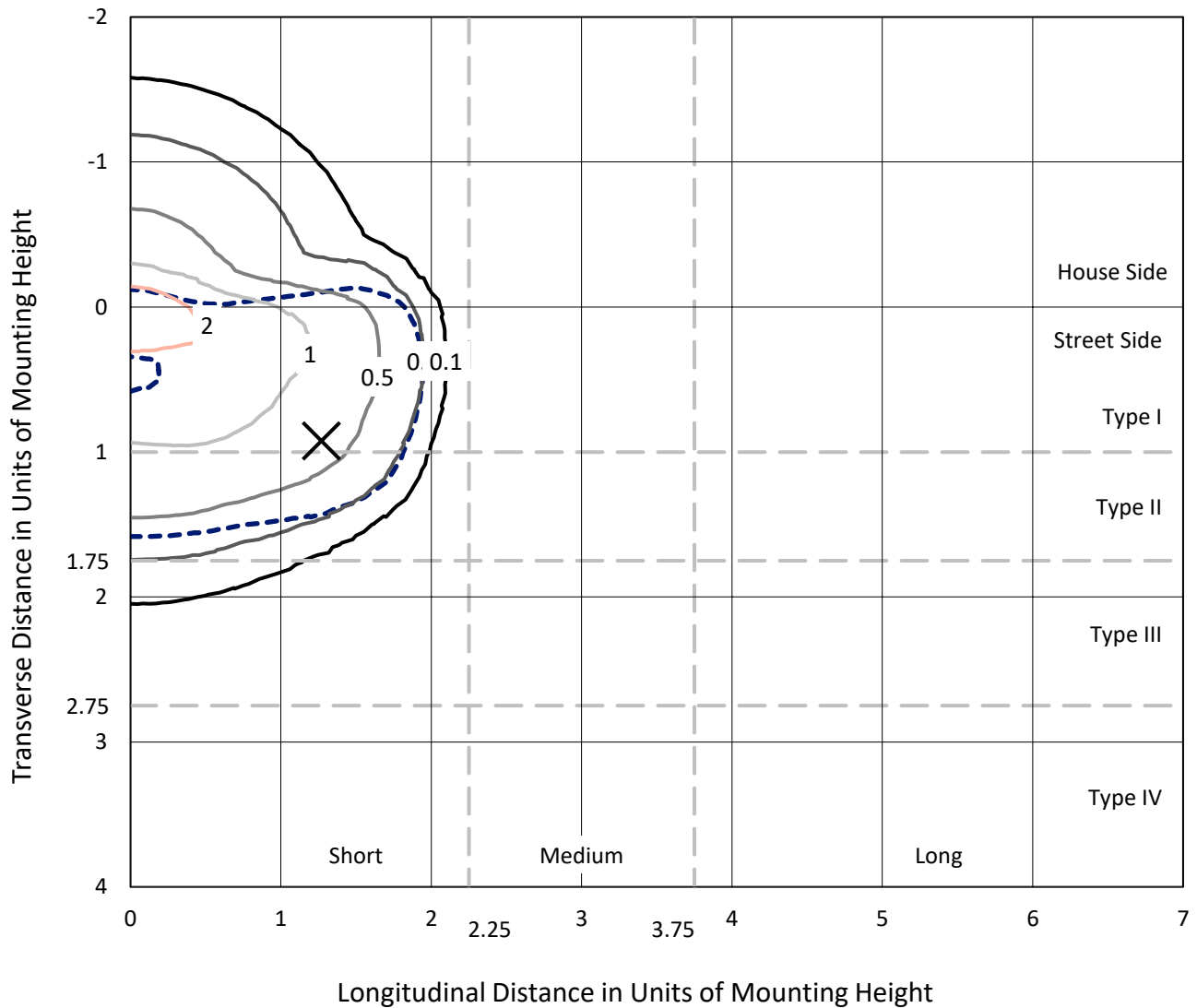
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

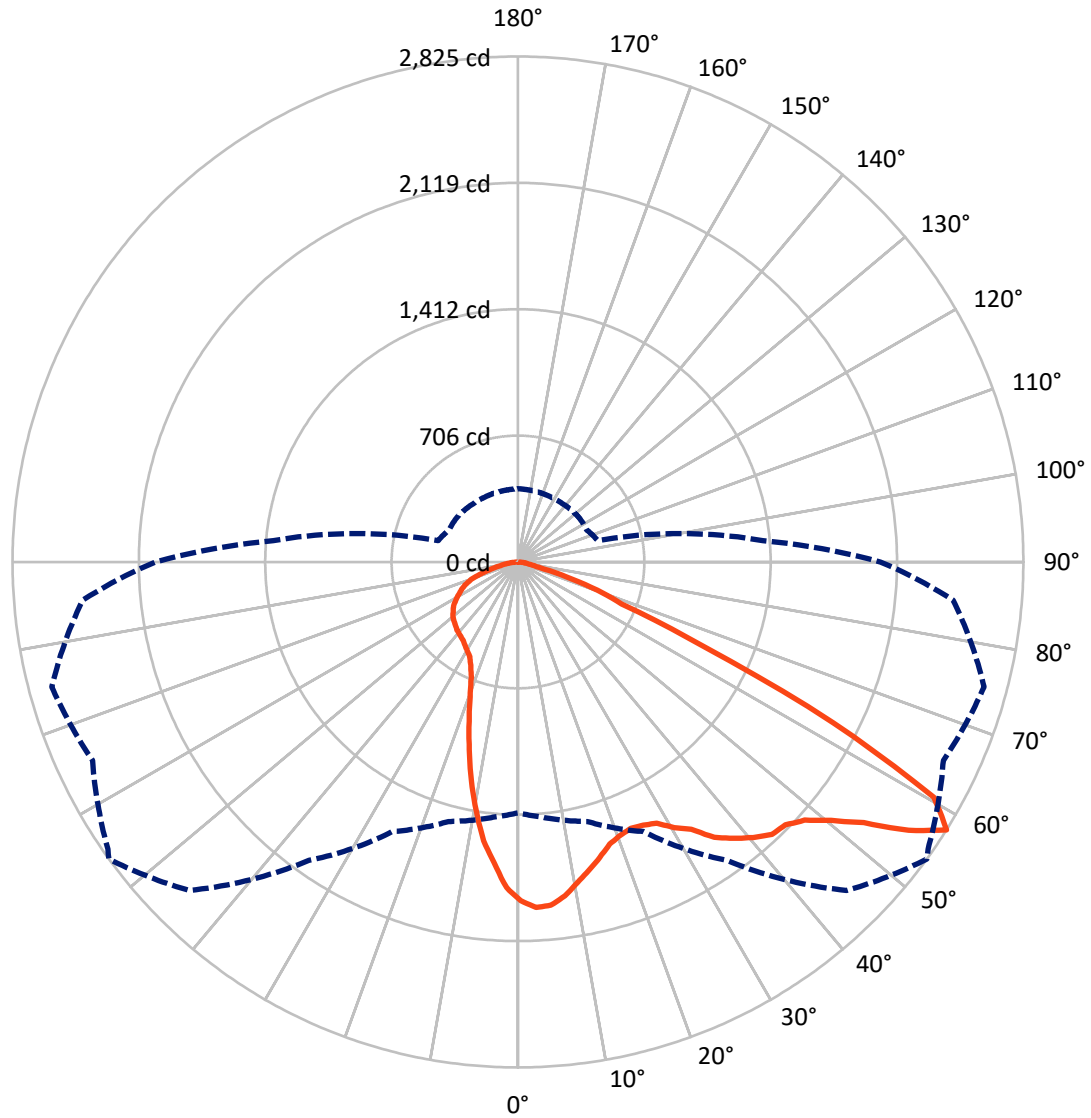
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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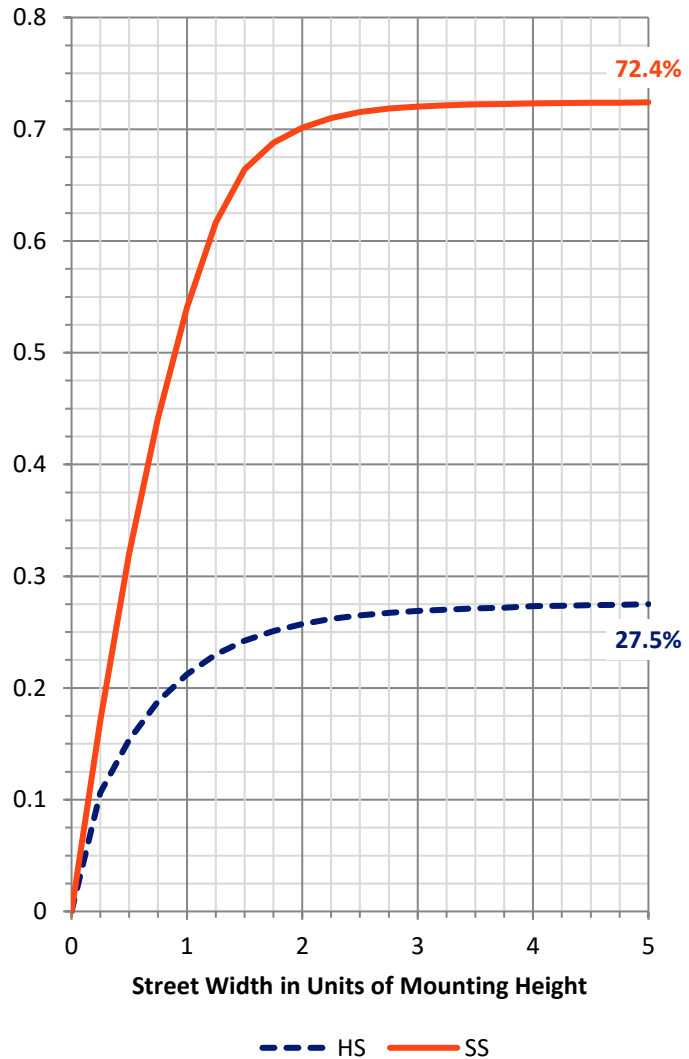
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1347.6	0.0	1347.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	3523.4	0.0	3523.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	4871.0	0.0	4871.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.4
10°-20°	378.1	7.8
20°-30°	531.2	10.9
30°-40°	742.6	15.2
40°-50°	1005.3	20.6
50°-60°	1224.5	25.1
60°-70°	637.8	13.1
70°-80°	163.4	3.4
80°-90°	24.9	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°	4871.0	100.0
0°-180°	4871.0	100.0



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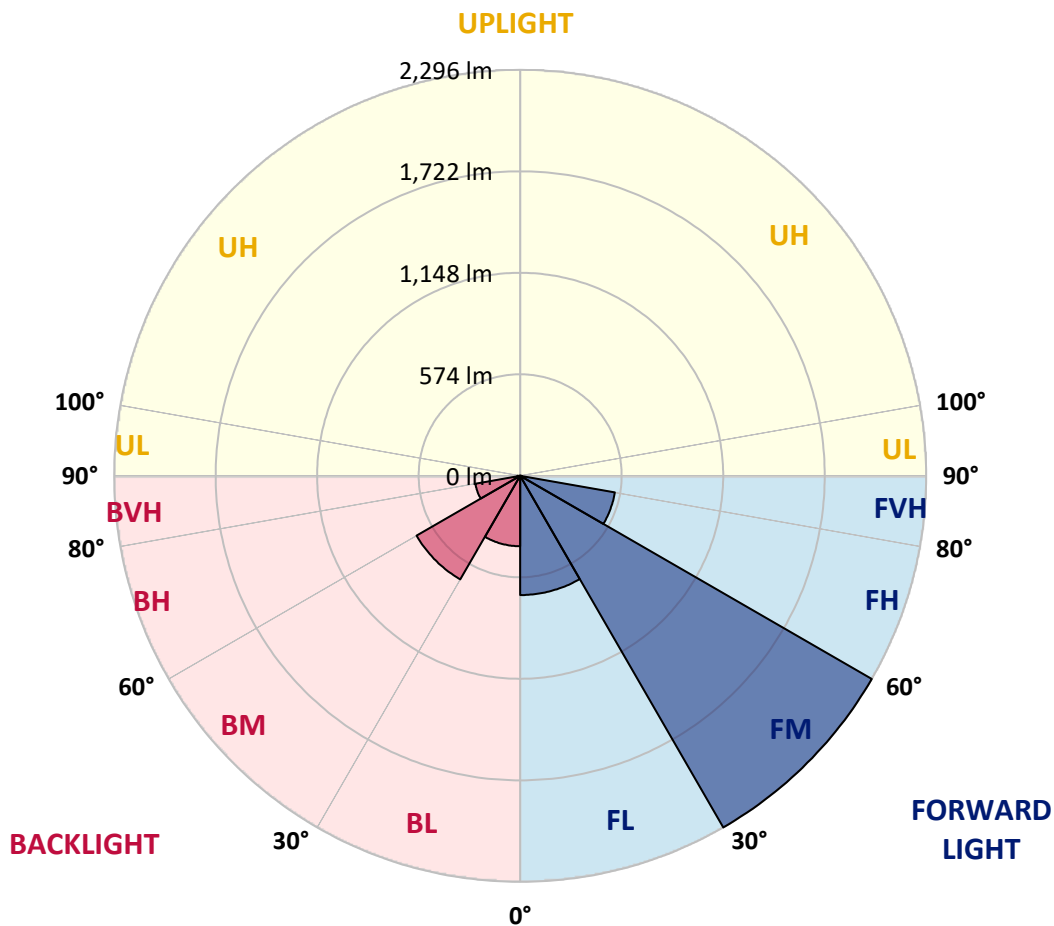
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	674.2	13.8			
FM (30°-60°)	2296.0	47.1			
FH (60°-80°)	543.7	11.2			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	398.3	8.2	B1/500		
BM (30°-60°)	676.3	13.9	B1/1000		
BH (60°-80°)	257.4	5.3	B1/500		G1/500
BVH (80°-90°)	15.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1947.1	1939.6	1940.9	1950.9	1938.4	1933.4	1933.4	1909.0	1910.8	1893.9	1889.5
5°	1902.1	1884.5	1896.4	1911.5	1914.0	1919.0	1927.1	1920.8	1903.3	1885.2	1855.7
7.5°	1784.4	1800.0	1804.4	1815.0	1837.6	1858.2	1883.9	1866.4	1865.8	1847.6	1830.1
10°	1681.1	1671.7	1695.5	1711.1	1748.7	1783.1	1822.6	1820.7	1830.1	1809.4	1779.4
12.5°	1578.4	1570.9	1582.1	1617.8	1670.4	1720.5	1767.5	1749.9	1800.0	1796.3	1731.8
15°	1469.4	1475.1	1491.4	1524.5	1593.4	1653.5	1713.0	1713.6	1758.1	1773.1	1686.7
17.5°	1393.1	1386.8	1407.5	1456.9	1518.3	1590.3	1657.9	1671.7	1739.9	1748.7	1672.9
20°	1336.1	1344.8	1371.8	1396.8	1467.6	1554.6	1631.0	1636.0	1736.2	1759.9	1651.0
22.5°	1322.3	1317.3	1326.1	1366.8	1425.0	1519.5	1616.6	1635.4	1735.5	1756.2	1609.7
25°	1307.9	1324.2	1323.6	1364.3	1406.8	1491.4	1628.5	1649.1	1768.7	1775.6	1615.3
27.5°	1340.5	1338.6	1356.1	1359.2	1411.8	1498.9	1653.5	1669.2	1823.8	1818.2	1619.7
30°	1373.0	1363.6	1374.3	1411.2	1435.6	1542.1	1722.4	1721.1	1895.2	1891.4	1633.5
32.5°	1413.1	1408.7	1415.6	1448.2	1489.5	1599.7	1780.6	1817.5	1967.8	1991.6	1681.1
35°	1420.6	1438.8	1455.0	1498.9	1557.7	1693.0	1890.2	1920.8	2051.7	2126.2	1771.8
37.5°	1468.2	1475.1	1513.3	1590.9	1644.7	1817.5	1959.7	1979.1	2128.1	2212.6	1867.6
40°	1518.9	1527.0	1584.6	1666.0	1739.9	1898.9	2024.8	2031.0	2152.5	2279.0	1930.2
42.5°	1587.8	1595.3	1652.3	1754.3	1853.2	1968.4	2082.4	2089.3	2150.6	2355.4	2029.8
45°	1659.1	1677.3	1744.3	1860.1	1949.0	2049.8	2095.5	2123.7	2168.2	2423.6	2110.6
47.5°	1759.3	1776.2	1831.3	1944.6	2048.6	2121.2	2156.3	2183.8	2210.1	2483.1	2162.5
50°	1865.8	1868.9	1935.9	2038.6	2114.9	2202.0	2269.6	2279.0	2265.2	2552.0	2250.8
52.5°	1944.0	1954.0	2006.0	2106.2	2220.1	2327.2	2419.8	2429.9	2402.9	2577.6	2280.9
55°	1814.4	1808.8	1893.3	2026.7	2290.9	2513.8	2648.4	2655.9	2503.1	2657.1	2379.1
57.5°	1402.4	1429.4	1501.4	1662.3	2035.4	2596.4	2824.9	2798.0	2623.3	2697.2	2441.8
60°	1019.3	1013.0	1061.2	1168.9	1533.9	2237.7	2670.9	2698.5	2525.0	2431.1	2013.5
62.5°	830.2	821.4	825.2	828.9	989.9	1485.1	1977.2	1976.6	1944.6	1747.4	1358.0
65°	663.7	684.3	686.2	714.4	735.0	887.2	1145.7	1207.1	1051.2	862.1	625.5
67.5°	500.2	492.7	517.8	618.0	656.8	640.5	625.5	632.4	449.5	324.3	305.5
70°	294.9	291.8	321.8	430.8	540.9	509.0	471.4	472.1	308.7	226.6	252.3
72.5°	161.5	160.9	167.2	218.5	307.4	319.3	283.0	291.8	184.1	183.4	197.2
75°	90.2	88.3	86.4	96.4	110.8	117.1	119.6	120.8	126.5	141.5	147.1
77.5°	33.2	31.9	31.9	36.9	47.0	58.9	74.5	75.8	89.5	102.7	108.3
80°	11.3	12.5	16.9	23.2	31.3	41.9	50.7	52.0	63.2	72.0	73.9
82.5°	6.9	7.5	11.3	16.3	22.5	29.4	37.6	38.2	47.0	52.6	55.1
85°	3.1	3.8	6.3	10.0	14.4	19.4	20.0	20.0	19.4	20.0	18.8
87.5°	0.0	0.0	1.3	1.3	1.3	1.9	2.5	1.9	3.1	3.8	3.8
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°	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3	1893.3
2.5°	1876.4	1869.5	1848.2	1829.4	1823.8	1798.8	1761.8	1766.2	1739.3	1751.8	1738.7
5°	1850.7	1827.6	1773.1	1749.9	1689.2	1661.6	1642.9	1595.9	1574.0	1569.6	1550.8
7.5°	1785.0	1770.6	1702.3	1639.7	1575.2	1520.2	1449.4	1401.2	1366.8	1357.4	1329.8
10°	1733.0	1701.1	1606.6	1511.4	1419.4	1323.6	1231.5	1159.5	1124.5	1083.8	1070.0
12.5°	1681.7	1633.5	1505.8	1383.7	1264.7	1143.9	1032.4	944.8	868.4	850.2	844.0
15°	1649.8	1565.9	1415.6	1268.5	1099.4	941.6	830.2	772.6	725.6	706.2	720.0
17.5°	1607.8	1510.1	1329.2	1133.2	947.3	802.0	708.7	673.0	656.1	658.0	652.4
20°	1555.2	1457.5	1215.9	1010.5	811.4	695.6	642.4	629.2	631.7	636.1	634.2
22.5°	1517.6	1393.7	1133.9	885.3	701.2	636.7	614.8	605.4	613.6	617.3	614.2
25°	1488.8	1339.2	1034.3	774.5	637.4	603.6	593.5	592.9	605.4	610.4	607.3
27.5°	1462.6	1288.5	935.4	690.0	594.8	577.9	574.8	582.3	590.4	595.4	599.8
30°	1446.9	1249.7	842.7	619.2	573.5	565.4	559.7	566.6	571.0	576.0	573.5
32.5°	1461.9	1222.1	753.2	579.1	556.0	547.8	555.3	551.0	558.5	562.9	556.0
35°	1508.9	1197.7	689.3	557.8	535.9	539.1	540.3	538.4	541.6	537.8	546.0
37.5°	1555.2	1188.9	630.5	539.7	526.5	526.5	525.3	521.5	527.8	526.5	530.3
40°	1614.1	1194.6	580.4	520.3	517.8	516.5	511.5	510.9	508.4	509.0	510.3
42.5°	1665.4	1207.1	551.6	507.8	509.6	512.1	502.8	495.2	498.4	492.1	492.1
45°	1719.9	1218.4	525.9	499.0	497.1	496.5	489.0	484.6	482.1	482.7	488.4
47.5°	1805.6	1234.7	506.5	487.1	488.4	479.0	477.1	471.4	474.0	477.7	478.3
50°	1866.4	1269.1	491.5	473.3	477.7	471.4	460.2	457.7	457.7	463.9	462.7
52.5°	1909.0	1317.3	477.1	458.3	460.2	455.2	451.4	445.8	442.0	450.8	455.2
55°	2039.2	1397.4	473.3	445.8	445.2	440.1	433.3	427.6	425.7	427.0	435.8
57.5°	2026.7	1372.4	461.4	423.9	422.6	415.7	408.8	407.0	406.3	407.6	410.1
60°	1645.4	1013.6	412.0	398.8	396.9	395.7	388.8	381.3	377.5	381.3	378.2
62.5°	1088.8	678.7	363.1	368.8	370.0	366.9	355.6	348.1	349.4	353.7	346.9
65°	534.7	398.8	329.3	344.4	345.6	336.8	326.2	317.4	313.0	316.8	313.7
67.5°	305.5	304.9	301.8	317.4	316.8	308.0	291.1	283.6	276.1	277.4	275.5
70°	259.2	264.2	270.5	279.9	279.2	269.2	249.2	243.5	232.9	231.7	228.5
72.5°	204.1	212.9	226.6	233.5	227.9	215.4	202.2	192.8	183.4	177.8	179.7
75°	151.5	164.0	171.5	175.9	167.2	160.3	149.6	138.4	127.1	122.1	120.2
77.5°	110.2	113.9	120.8	124.0	118.3	111.4	105.2	93.9	83.3	76.4	74.5
80°	77.0	79.5	84.5	84.5	84.5	81.4	73.3	62.0	55.1	48.8	47.6
82.5°	53.8	56.3	61.4	58.9	58.2	54.5	49.5	40.7	33.2	28.8	27.5
85°	18.8	20.7	25.0	30.1	31.9	31.3	28.2	22.5	17.5	14.4	13.1
87.5°	4.4	4.4	5.0	4.4	4.4	5.0	4.4	4.4	4.4	3.1	2.5
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)