

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: P382775

Luminaire Tested: **GLEON-SA1C-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382775  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6899.1 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

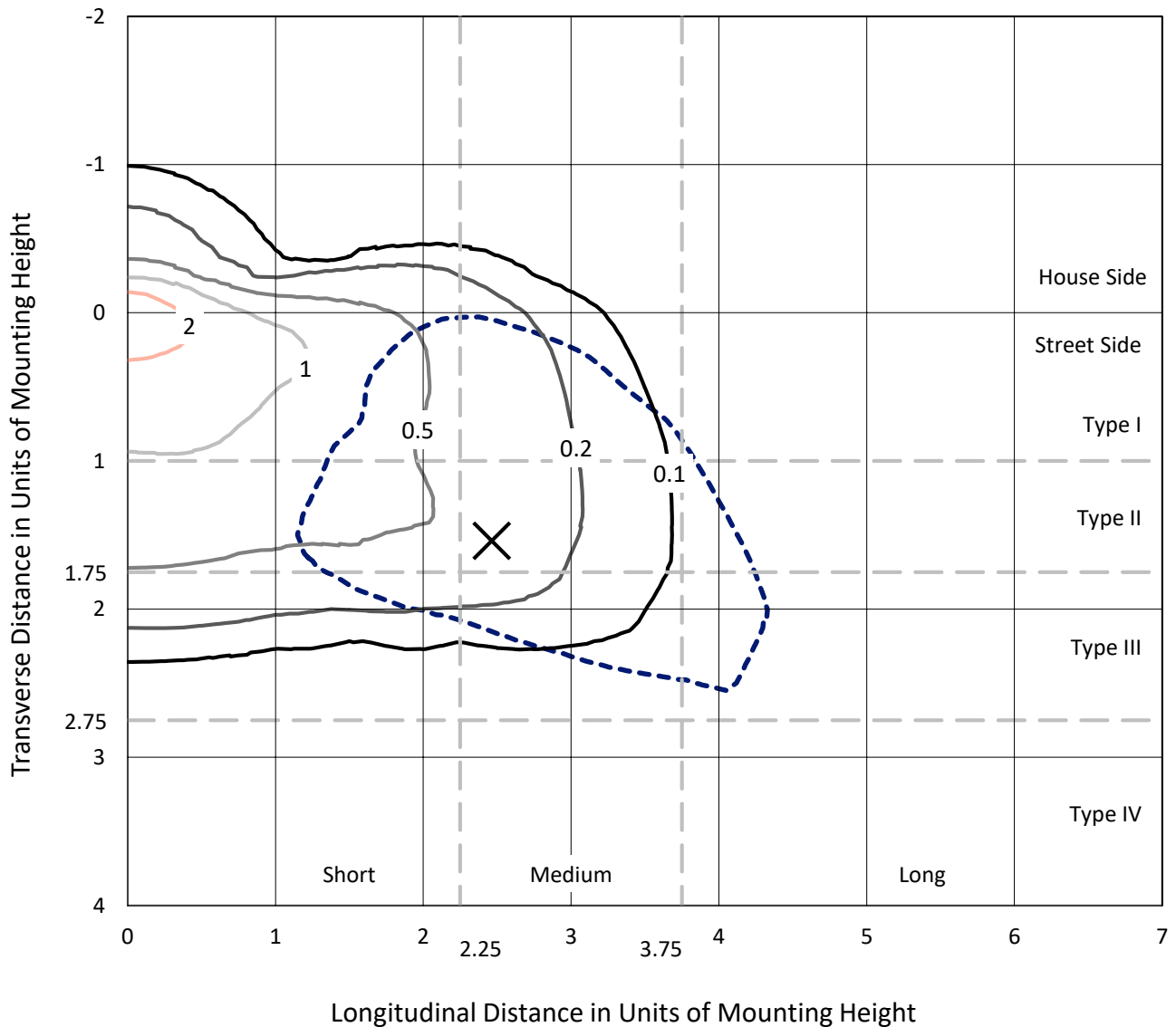
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

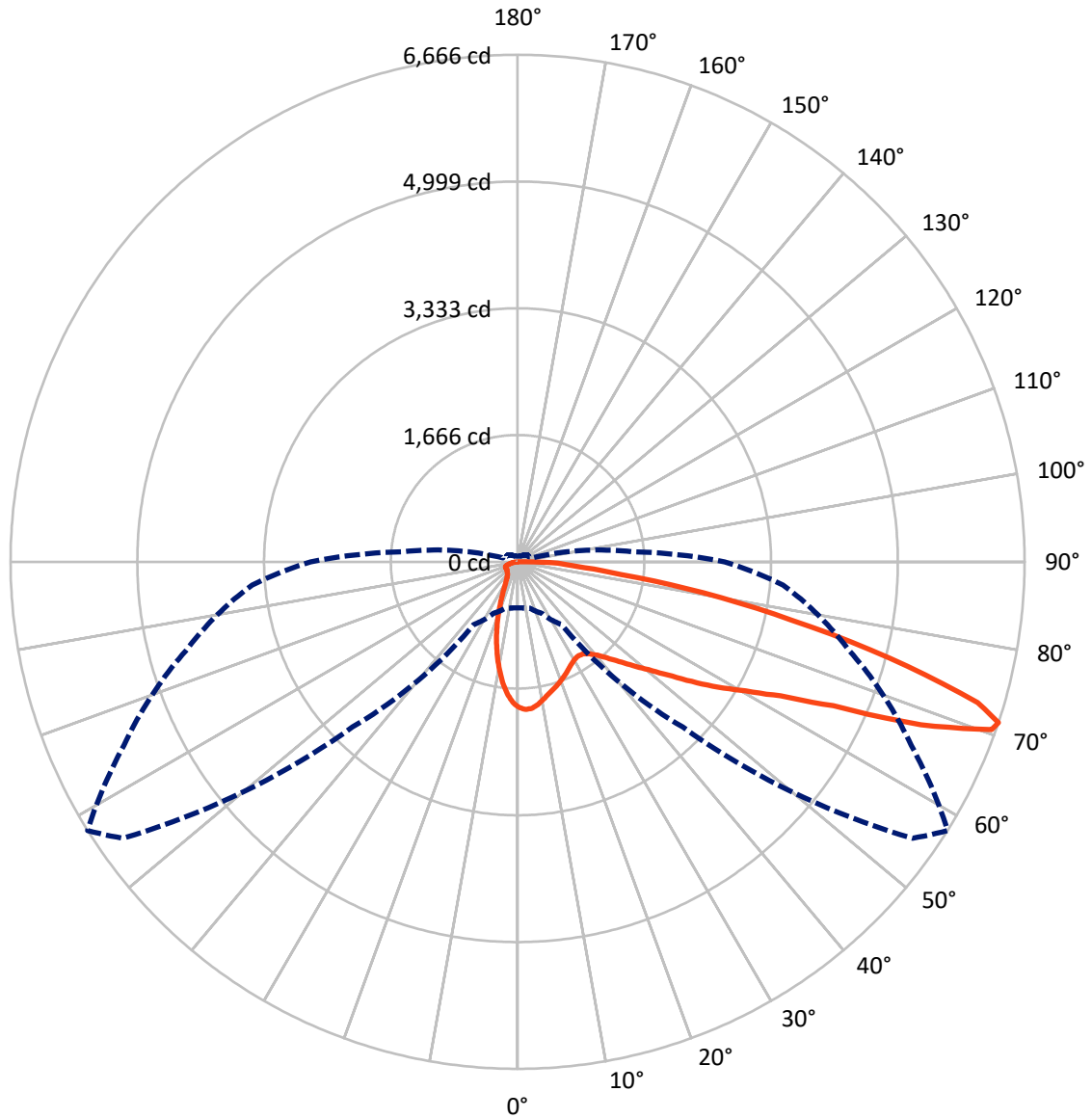
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1031.5	0.0	1031.5
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5867.6	0.0	5867.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	6899.1	0.0	6899.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.9	2.4
10°-20°	366.7	5.3
20°-30°	466.0	6.8
30°-40°	593.6	8.6
40°-50°	841.8	12.2
50°-60°	1302.7	18.9
60°-70°	1773.4	25.7
70°-80°	1183.1	17.1
80°-90°	206.8	3.0
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°	6899.1	100.0
0°-180°	6899.1	100.0

**Coefficient of Utilization**

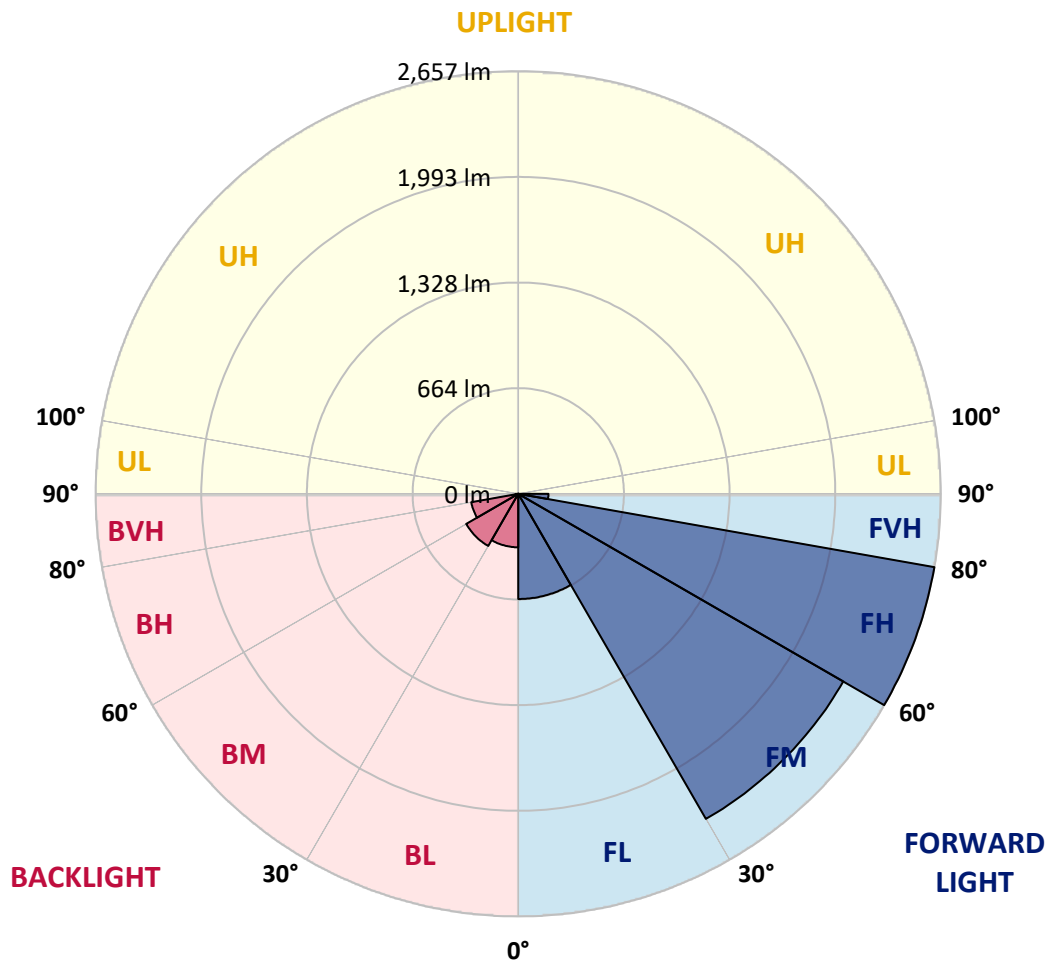


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.4	9.6			
FM (30°-60°)	2359.8	34.2			
FH (60°-80°)	2656.7	38.5			G2/5000
FVH (80°-90°)	189.7	2.7			G2/225
BL (0°-30°)	336.2	4.9	B1/500		
BM (30°-60°)	378.3	5.5	B1/1000		
BH (60°-80°)	299.8	4.3	B1/500		G1/500
BVH (80°-90°)	17.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5
2.5°	1962.2	1959.6	1960.5	1958.6	1954.0	1949.4	1942.7	1944.0	1934.5	1920.7	1903.3
5°	1925.2	1924.2	1931.5	1935.6	1938.9	1936.2	1934.4	1936.7	1923.0	1903.8	1873.8
7.5°	1847.5	1837.0	1846.1	1859.8	1872.8	1882.7	1895.6	1897.3	1888.6	1868.5	1829.1
10°	1737.2	1727.2	1740.6	1762.0	1788.0	1811.5	1837.8	1842.5	1844.2	1825.9	1778.1
12.5°	1622.8	1615.2	1628.6	1658.7	1701.7	1738.0	1779.8	1787.0	1801.9	1789.7	1731.0
15°	1520.5	1517.6	1534.0	1563.5	1613.0	1668.5	1728.9	1742.1	1767.3	1763.2	1694.2
17.5°	1432.1	1431.3	1443.8	1474.8	1529.6	1599.8	1678.2	1700.5	1738.0	1742.8	1663.9
20°	1366.2	1364.8	1373.4	1396.3	1452.7	1532.3	1623.3	1654.1	1708.2	1725.0	1632.7
22.5°	1330.9	1330.6	1330.9	1341.7	1387.8	1461.9	1570.0	1607.5	1679.1	1710.8	1598.2
25°	1324.8	1324.2	1318.9	1317.7	1343.9	1403.0	1517.1	1558.5	1651.4	1701.0	1565.2
27.5°	1340.5	1341.4	1334.5	1323.2	1328.5	1364.3	1471.2	1515.4	1629.4	1699.0	1542.4
30°	1372.9	1372.4	1366.5	1354.7	1344.3	1349.9	1438.6	1482.7	1614.5	1707.4	1526.7
32.5°	1408.8	1411.4	1410.2	1403.7	1388.3	1366.2	1428.7	1471.9	1610.2	1727.6	1520.0
35°	1451.7	1454.6	1463.3	1468.3	1450.3	1414.7	1449.9	1487.3	1622.7	1765.7	1530.8
37.5°	1492.6	1500.1	1524.4	1545.7	1530.3	1490.7	1506.0	1532.8	1661.3	1825.5	1559.9
40°	1539.8	1546.2	1585.9	1631.3	1628.9	1587.8	1596.7	1614.5	1729.6	1911.3	1612.5
42.5°	1586.1	1599.1	1656.5	1720.9	1739.4	1703.1	1717.3	1726.7	1825.7	2024.9	1704.4
45°	1647.9	1661.8	1741.6	1819.2	1862.4	1842.0	1864.7	1868.2	1946.6	2179.7	1837.8
47.5°	1741.3	1757.2	1850.2	1931.7	1997.8	1999.9	2037.2	2035.7	2097.5	2356.8	2005.7
50°	1886.9	1909.9	1986.0	2062.2	2142.5	2187.2	2236.9	2229.9	2278.5	2545.5	2199.2
52.5°	2077.8	2088.3	2144.9	2201.1	2300.8	2401.1	2472.4	2466.2	2483.7	2739.4	2418.8
55°	2275.6	2283.5	2306.8	2337.6	2471.7	2635.1	2786.0	2776.2	2731.7	2940.8	2635.8
57.5°	2453.4	2469.5	2485.6	2498.3	2643.7	2879.8	3106.8	3107.5	3000.9	3158.0	2860.0
60°	2481.1	2495.2	2601.7	2702.1	2938.1	3206.1	3450.3	3443.1	3279.4	3393.8	3110.0
62.5°	2193.1	2225.1	2402.9	2670.2	3221.8	3803.0	3888.4	3879.4	3612.4	3684.4	3401.0
65°	1571.7	1607.9	1822.6	2224.2	3084.3	4460.8	4679.0	4559.4	4066.7	4041.7	3741.7
67.5°	906.8	915.3	1008.4	1330.9	2348.4	4495.2	5885.1	5717.7	4772.0	4447.1	3908.6
70°	670.5	670.2	692.3	819.0	1270.8	3668.7	6458.8	6609.1	5514.6	4580.5	3672.8
71°	606.3	607.1	631.8	745.4	1006.4	3070.8	6336.9	6665.7	5710.2	4514.7	3502.2
72.5°	518.6	521.0	555.4	668.6	846.7	2117.7	5812.1	6325.4	5803.0	4352.2	3235.2
75°	393.4	398.9	446.5	563.6	773.8	1074.0	4265.6	5051.0	5155.1	3840.3	2404.0
77.5°	280.7	286.9	340.8	473.9	735.6	809.4	2856.7	3684.4	3793.6	2461.1	1084.3
80°	177.4	184.8	225.4	377.1	691.1	768.5	1795.2	2476.5	2068.7	787.5	275.9
82.5°	104.1	109.8	139.8	246.3	564.5	740.2	1056.2	1372.7	805.0	237.9	125.5
85°	60.4	63.0	87.2	157.0	410.0	698.6	776.0	767.3	349.4	116.4	59.3
87.5°	28.1	31.2	51.7	82.0	227.6	506.4	613.3	529.9	217.2	54.6	27.9
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°	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5	1911.5
2.5°	1895.0	1890.9	1873.8	1858.6	1842.8	1822.1	1799.3	1796.4	1782.4	1785.1	1780.3
5°	1857.4	1847.1	1806.0	1768.7	1724.8	1685.4	1642.6	1622.8	1594.5	1592.6	1585.4
7.5°	1803.8	1784.6	1720.9	1650.2	1579.6	1512.4	1445.8	1402.0	1357.4	1338.4	1336.7
10°	1743.5	1710.8	1617.1	1512.6	1410.6	1312.4	1217.3	1146.8	1083.4	1053.3	1052.1
12.5°	1686.3	1638.0	1509.5	1367.1	1227.8	1100.4	969.9	877.4	797.9	771.2	759.9
15°	1637.8	1569.8	1404.7	1222.7	1053.6	876.7	728.2	630.8	557.3	531.8	527.0
17.5°	1590.7	1503.2	1297.3	1076.9	872.4	678.0	529.2	456.8	417.7	407.4	407.1
20°	1543.9	1434.7	1185.0	927.6	697.2	507.0	406.9	374.4	361.2	360.0	358.1
22.5°	1490.7	1362.1	1067.0	777.9	544.1	398.7	345.8	332.8	331.2	335.5	335.5
25°	1440.9	1290.0	947.3	631.3	423.2	332.6	308.8	306.2	310.8	318.4	319.1
27.5°	1394.5	1220.6	830.6	501.1	339.1	293.0	283.1	286.3	294.4	303.3	303.5
30°	1356.3	1154.9	717.1	394.9	286.5	263.3	261.7	267.9	276.9	283.8	285.5
32.5°	1326.8	1098.9	607.6	317.5	252.1	241.3	242.8	248.0	253.6	257.4	260.0
35°	1313.1	1050.9	506.4	267.7	230.2	224.2	226.2	229.1	231.4	234.3	236.5
37.5°	1315.5	1013.7	416.0	236.7	215.6	212.5	212.5	212.5	212.5	213.9	214.2
40°	1337.9	992.3	342.4	217.1	205.7	202.3	199.7	197.3	195.3	196.4	195.9
42.5°	1395.1	990.3	288.6	204.5	197.8	192.3	187.0	183.6	181.2	182.1	182.7
45°	1492.2	1014.4	252.4	195.6	190.3	181.9	175.2	171.6	169.9	173.0	173.5
47.5°	1617.8	1066.8	230.2	189.1	183.3	172.3	165.1	161.7	162.2	166.7	168.0
50°	1779.8	1151.9	219.7	185.0	178.6	164.1	156.7	153.8	155.3	161.7	163.2
52.5°	1957.6	1274.5	220.9	183.9	175.4	158.1	150.2	146.8	149.2	155.3	156.4
55°	2162.9	1421.7	240.8	185.6	170.8	154.3	144.9	139.2	141.0	146.6	147.6
57.5°	2390.9	1590.4	281.0	185.0	165.1	150.7	139.4	130.7	132.2	135.5	136.5
60°	2628.4	1794.3	343.2	186.5	162.5	146.3	131.9	121.1	120.6	123.5	124.0
62.5°	2913.4	2029.9	414.4	187.4	164.1	140.8	122.1	111.5	110.1	110.8	111.2
65°	3207.0	2200.6	387.6	183.6	169.4	136.3	113.5	102.1	99.5	99.0	99.2
67.5°	3216.2	2017.7	271.8	175.9	171.6	133.9	106.9	94.2	89.9	88.2	87.9
70°	2884.4	1639.2	211.7	167.8	162.9	130.0	101.0	87.8	81.2	78.6	78.3
71°	2722.4	1508.9	200.7	163.7	156.4	126.1	98.3	84.9	78.1	75.2	74.7
72.5°	2468.3	1352.8	187.2	157.2	143.9	116.4	93.2	80.8	73.8	70.4	69.7
75°	1771.4	884.6	160.8	140.1	119.2	92.8	81.7	72.6	66.6	62.5	62.0
77.5°	682.5	352.0	121.6	116.5	91.3	72.6	67.3	62.7	58.4	54.3	54.0
80°	211.0	157.4	88.7	87.8	66.0	54.0	52.4	51.1	49.5	45.2	44.2
82.5°	112.7	90.4	61.0	56.7	43.2	36.1	38.0	38.5	38.7	34.1	33.6
85°	53.8	47.8	34.4	32.2	25.2	20.2	23.3	25.2	25.4	20.9	19.5
87.5°	25.7	25.0	16.1	12.3	9.4	6.7	8.2	10.1	11.1	7.9	7.0
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)