

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: P269146

Luminaire Tested: **GLEON-AF-03-LED-E1-SL2-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-SL2-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10190.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

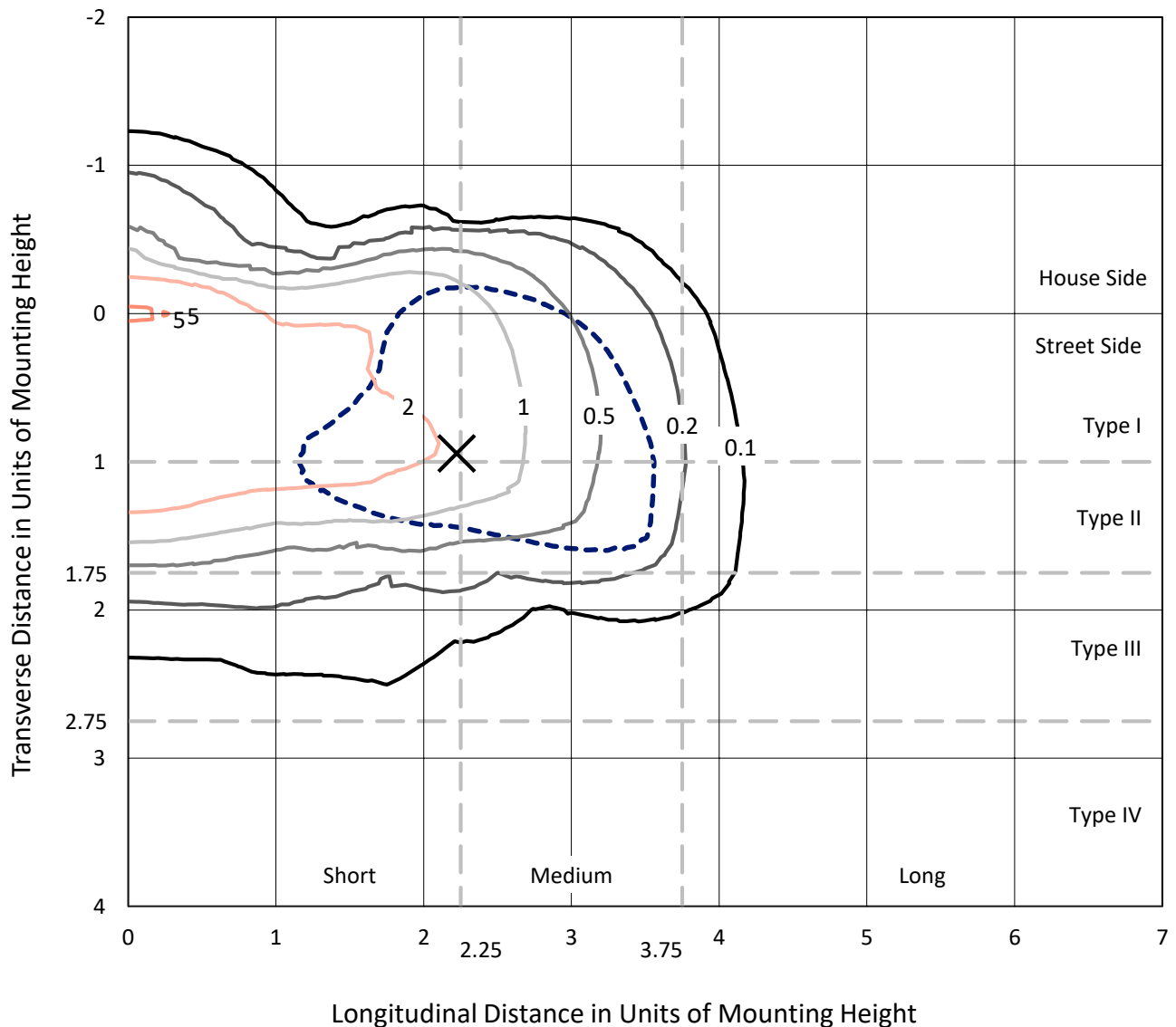
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

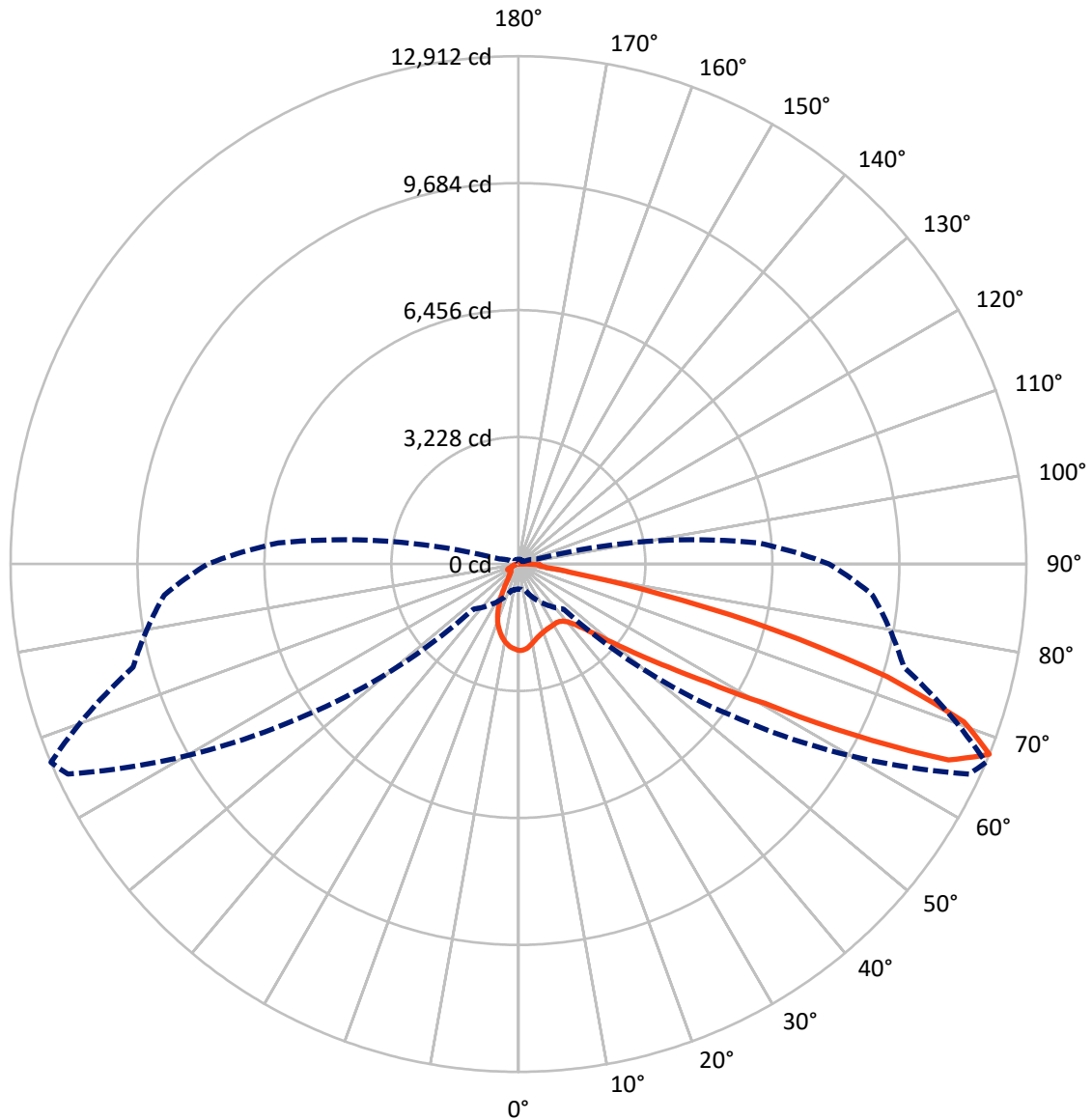
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1688.5	0.0	1688.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	8502.2	0.0	8502.2
	% Fixture	83.4	0.0	83.4
Total	Lumens	10190.7	0.0	10190.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.5	1.8
10°-20°	433.9	4.3
20°-30°	588.2	5.8
30°-40°	836.2	8.2
40°-50°	1398.9	13.7
50°-60°	2213.1	21.7
60°-70°	2819.3	27.7
70°-80°	1476.7	14.5
80°-90°	236.8	2.3
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°	10190.7	100.0
0°-180°	10190.7	100.0



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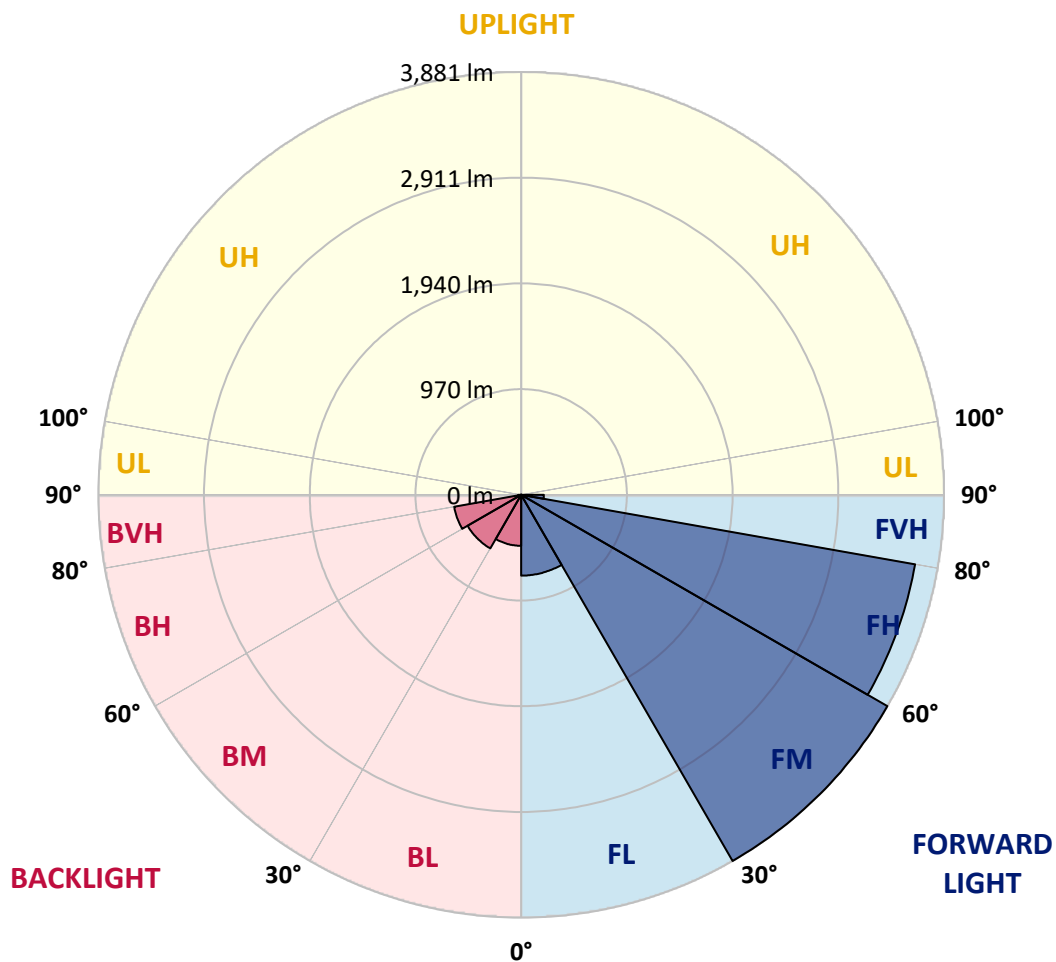
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.6	7.3			
FM (30°-60°)	3880.8	38.1			
FH (60°-80°)	3671.5	36.0			G2/5000
FVH (80°-90°)	208.3	2.0			G2/225
BL (0°-30°)	468.0	4.6	B1/500		
BM (30°-60°)	567.4	5.6	B1/1000		
BH (60°-80°)	624.5	6.1	B2/1000		G2/1000
BVH (80°-90°)	28.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2
2.5°	2107.7	2111.1	2122.2	2129.3	2161.0	2174.4	2184.0	2193.7	2195.1	2199.6	2195.1
5°	1886.5	1894.0	1914.6	1937.9	1999.1	2047.3	2098.1	2150.9	2160.5	2194.6	2204.1
7.5°	1715.1	1713.2	1730.2	1758.0	1820.8	1887.6	1976.5	2081.6	2102.2	2179.0	2216.2
10°	1590.0	1588.6	1606.6	1635.3	1695.1	1758.4	1859.0	2002.6	2031.7	2154.3	2227.7
12.5°	1497.6	1498.1	1516.2	1547.8	1608.7	1672.5	1774.5	1926.2	1963.4	2125.7	2239.8
15°	1436.3	1440.3	1454.8	1488.5	1547.8	1611.6	1711.6	1869.0	1910.7	2103.1	2253.4
17.5°	1415.6	1422.1	1427.1	1451.8	1502.5	1566.5	1664.4	1826.8	1871.0	2087.5	2265.4
20°	1434.8	1442.3	1432.7	1441.3	1473.5	1529.8	1627.2	1793.6	1838.8	2070.0	2267.0
22.5°	1516.7	1523.7	1495.6	1471.0	1468.9	1503.1	1596.6	1767.4	1814.1	2056.8	2267.4
25°	1660.8	1665.4	1618.1	1560.8	1505.1	1493.5	1575.0	1749.4	1799.0	2045.4	2257.9
27.5°	1837.8	1841.3	1787.1	1702.6	1590.5	1516.2	1567.5	1738.8	1790.5	2035.3	2241.8
30°	2052.8	2069.4	1996.7	1890.0	1726.7	1583.1	1582.5	1733.3	1781.0	2018.2	2210.2
32.5°	2273.0	2280.0	2229.8	2121.7	1910.2	1700.6	1624.8	1737.3	1778.5	1997.7	2169.9
35°	2496.1	2505.2	2472.6	2385.5	2161.0	1873.0	1707.0	1760.9	1794.1	1990.6	2141.7
37.5°	2785.0	2797.1	2751.9	2651.3	2465.9	2106.6	1844.3	1820.1	1841.9	2010.6	2133.3
40°	3242.0	3236.4	3104.3	2954.4	2799.7	2405.8	2040.3	1920.8	1933.3	2075.5	2159.4
42.5°	3773.6	3760.0	3532.3	3297.1	3166.5	2767.5	2299.7	2095.0	2092.6	2203.2	2251.4
45°	4197.7	4186.7	3981.6	3691.7	3587.1	3179.6	2634.8	2354.8	2336.3	2405.8	2421.2
47.5°	4427.3	4427.8	4309.8	4073.1	4070.6	3703.3	3065.5	2730.8	2698.7	2731.2	2714.7
50°	4347.0	4357.5	4344.9	4269.6	4511.7	4389.7	3627.9	3255.0	3190.2	3222.3	3158.5
52.5°	3958.0	3971.5	4046.0	4161.6	4697.2	5219.4	4454.1	3906.3	3830.8	3819.4	3748.4
55°	3268.6	3285.1	3436.8	3751.0	4543.0	5776.7	5757.5	4736.5	4616.3	4507.2	4477.2
57.5°	2252.9	2280.5	2524.7	2991.1	4043.9	5945.1	7310.0	5919.9	5675.8	5294.8	5301.7
60°	1269.9	1302.2	1590.0	2013.7	3036.9	5762.2	8490.9	7712.5	7197.0	6216.9	6269.2
62.5°	807.5	842.3	1060.9	1399.1	1822.2	4777.1	8974.8	10204.6	9549.8	7353.6	7405.0
65°	653.7	668.9	772.0	1154.9	1323.3	2878.1	8607.5	12257.5	12013.3	8796.5	8557.3
67.5°	638.2	643.2	696.5	969.5	1268.9	1617.7	6865.7	12641.4	12912.2	10143.8	9037.2
70°	630.7	648.2	784.9	925.2	1215.1	1364.3	4125.8	11589.2	12016.7	10496.1	8398.4
72.5°	306.1	305.1	395.0	836.7	1368.9	1415.2	2119.7	9376.9	9806.1	9093.5	6901.4
75°	246.8	225.7	215.7	306.5	1316.1	1461.5	1350.8	6452.2	6762.7	6096.8	4242.4
77.5°	234.2	209.0	191.5	192.0	556.3	1549.8	1144.4	3571.0	3661.5	2753.9	1162.3
80°	193.9	170.9	158.3	178.5	269.3	1475.9	1237.2	1616.2	1483.0	676.5	387.0
82.5°	134.7	122.6	119.0	149.7	215.7	1051.8	1438.7	868.4	728.2	338.8	238.7
85°	86.0	73.4	81.3	109.1	167.9	485.4	1482.1	677.0	538.3	215.1	134.7
87.5°	39.6	32.2	40.2	60.2	109.6	167.4	1410.1	760.3	554.3	113.5	84.9
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°	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2	2198.2
2.5°	2199.1	2189.6	2182.1	2168.0	2152.3	2137.2	2123.8	2106.6	2101.7	2097.2	2104.1
5°	2206.1	2196.6	2169.0	2125.7	2078.0	2033.3	1988.6	1950.4	1926.8	1913.7	1921.3
7.5°	2216.7	2203.2	2145.8	2066.5	1980.6	1902.2	1821.3	1756.4	1708.7	1685.9	1692.5
10°	2226.3	2200.0	2106.6	1987.6	1861.8	1745.3	1617.7	1512.1	1433.8	1392.6	1402.7
12.5°	2230.3	2188.6	2051.9	1889.0	1716.8	1545.9	1357.9	1200.0	1087.5	1046.3	1037.7
15°	2234.4	2175.4	1991.5	1776.9	1541.3	1299.6	1036.3	847.3	753.8	733.1	728.6
17.5°	2235.3	2152.9	1923.2	1655.3	1335.8	1006.6	708.7	588.5	589.0	622.2	626.2
20°	2224.7	2119.2	1840.3	1504.1	1089.6	696.0	486.4	465.9	541.8	624.6	634.7
22.5°	2200.6	2074.5	1746.3	1327.8	807.5	458.3	376.4	398.9	497.0	598.5	610.0
25°	2169.9	2020.2	1635.3	1123.2	534.8	327.6	315.7	343.2	409.5	477.4	483.9
27.5°	2128.3	1955.9	1510.6	889.1	347.3	269.9	277.8	296.5	323.6	353.8	356.7
30°	2074.5	1879.1	1377.6	648.2	262.3	242.7	254.3	264.3	275.9	292.9	294.5
32.5°	2012.7	1805.1	1240.7	447.7	232.8	228.7	237.7	242.7	251.7	262.3	263.4
35°	1960.9	1734.7	1099.0	316.7	220.2	218.1	224.1	226.2	234.6	246.2	247.3
37.5°	1931.3	1677.5	952.8	255.3	211.6	208.5	212.1	212.1	224.1	241.3	243.7
40°	1933.3	1645.9	806.6	230.7	204.5	200.5	201.0	201.0	216.6	235.1	236.8
42.5°	1988.0	1653.9	677.0	221.2	199.1	194.6	192.0	193.4	206.5	218.6	219.6
45°	2116.6	1710.6	555.3	215.1	193.4	192.0	186.5	185.9	191.0	196.5	196.5
47.5°	2327.8	1822.8	472.9	211.0	189.0	188.5	181.9	175.3	174.9	176.8	176.8
50°	2671.0	2015.6	417.6	206.5	185.9	181.9	174.5	164.3	160.7	162.4	162.4
52.5°	3185.6	2359.9	396.5	200.5	179.4	172.8	164.3	154.2	151.3	151.8	151.8
55°	3860.6	2888.6	393.5	193.4	172.4	161.9	154.8	147.2	143.6	144.7	144.7
57.5°	4685.2	3619.8	447.3	182.4	162.9	150.7	146.8	141.8	139.1	140.8	140.2
60°	5687.8	4576.7	663.4	170.9	153.3	140.8	140.8	136.7	134.7	136.3	135.6
62.5°	6842.6	5675.8	932.7	162.4	143.2	132.7	134.7	132.7	130.7	131.6	131.2
65°	7866.7	6391.8	873.4	155.8	133.2	125.1	128.6	127.6	126.1	127.1	126.7
67.5°	7896.5	6126.5	490.5	148.8	123.6	117.6	122.6	122.1	121.1	122.1	121.6
70°	7047.2	5173.2	276.4	135.6	113.5	108.5	115.6	115.2	114.1	116.2	115.6
72.5°	5646.0	3753.9	201.9	119.7	103.6	99.1	107.1	106.4	106.4	109.6	108.1
75°	3248.9	1931.7	161.3	102.5	93.0	89.4	96.5	96.9	97.9	102.0	99.1
77.5°	926.2	602.0	131.6	87.0	79.9	78.4	85.3	86.4	87.0	91.4	87.5
80°	344.2	277.3	108.5	72.9	65.3	65.8	72.4	73.9	74.4	79.0	73.9
82.5°	219.6	183.0	87.9	56.2	51.3	50.8	58.7	60.8	60.8	61.4	58.3
85°	128.2	109.6	66.4	40.8	36.2	34.7	43.7	47.3	45.8	44.7	42.7
87.5°	86.0	75.4	40.8	22.5	19.7	18.5	25.6	28.1	27.0	25.6	24.2
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)