

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: P269076

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8549.7 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

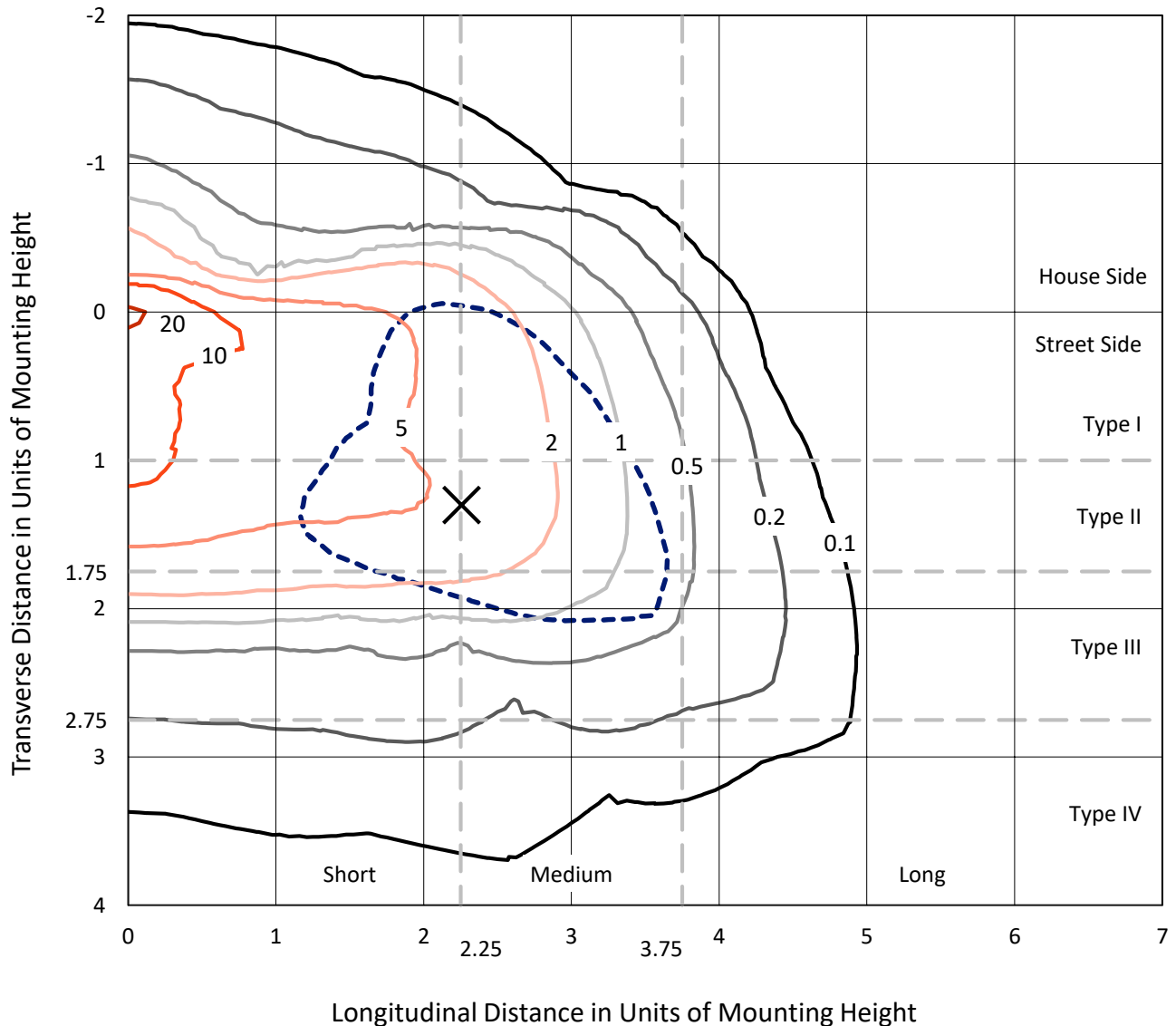
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

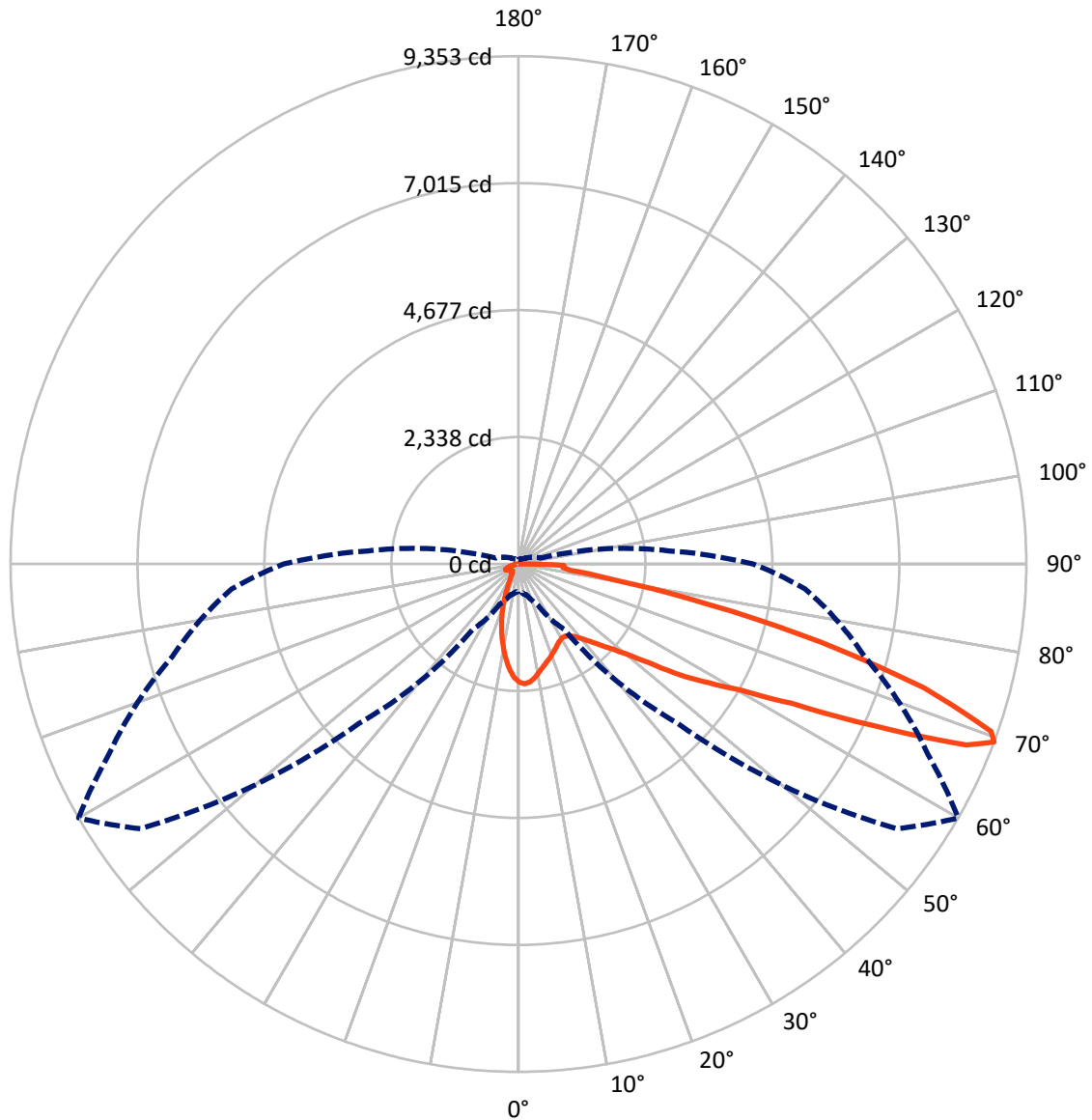


Based on 10 foot mounting height. Maximum calculated value = 21.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1216.3	0.0	1216.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	7333.3	0.0	7333.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	8549.7	0.0	8549.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	2.2
10°-20°	392.5	4.6
20°-30°	500.1	5.8
30°-40°	687.5	8.0
40°-50°	1115.5	13.0
50°-60°	1789.0	20.9
60°-70°	2381.0	27.8
70°-80°	1285.5	15.0
80°-90°	214.5	2.5
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°	8549.7	100.0
0°-180°	8549.7	100.0



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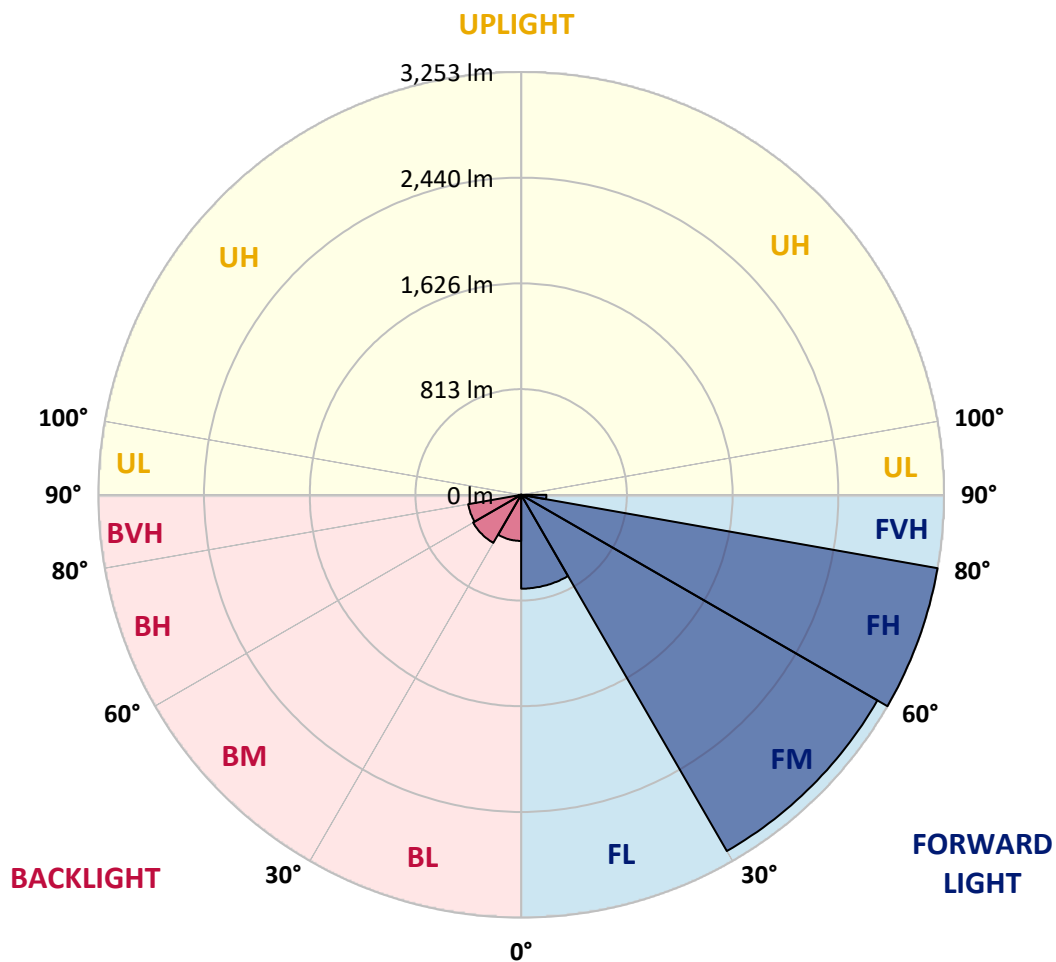
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.9	8.4			
FM (30°-60°)	3164.6	37.0			
FH (60°-80°)	3253.0	38.0			G2/5000
FVH (80°-90°)	193.8	2.3			G2/225
BL (0°-30°)	354.8	4.2	B1/500		
BM (30°-60°)	427.3	5.0	B1/1000		
BH (60°-80°)	413.5	4.8	B1/500		G1/500
BVH (80°-90°)	20.7	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°	60°	65°	75°	85°
0°	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6
2.5°	2223.1	2228.2	2226.1	2224.8	2228.5	2222.8	2210.8	2207.0	2201.2	2187.7	2164.6
5°	2139.8	2154.7	2153.7	2164.9	2183.5	2188.5	2183.2	2184.0	2173.2	2156.3	2117.8
7.5°	1995.7	2001.9	2005.1	2029.5	2063.3	2090.6	2113.7	2121.2	2116.2	2101.8	2052.2
10°	1846.9	1851.9	1859.8	1888.2	1931.1	1968.7	2012.6	2037.7	2048.4	2046.0	1990.6
12.5°	1719.4	1724.2	1734.5	1766.8	1818.0	1864.3	1927.9	1959.4	1984.8	2000.2	1940.7
15°	1604.9	1615.7	1625.7	1662.8	1720.2	1780.9	1852.8	1892.4	1932.1	1966.3	1896.5
17.5°	1515.7	1526.5	1532.2	1566.1	1627.2	1701.6	1785.8	1832.5	1882.0	1938.3	1852.8
20°	1464.1	1469.1	1466.6	1485.5	1540.6	1619.4	1719.4	1773.4	1833.4	1911.9	1808.9
22.5°	1449.7	1450.0	1441.1	1438.9	1474.4	1541.0	1648.3	1714.0	1787.4	1894.4	1771.4
25°	1484.8	1483.6	1458.7	1438.5	1442.1	1481.0	1579.7	1656.1	1749.1	1890.8	1742.4
27.5°	1562.8	1566.6	1529.8	1491.7	1454.1	1453.0	1527.7	1608.2	1717.6	1907.7	1730.0
30°	1672.3	1678.5	1639.1	1590.9	1520.2	1462.0	1507.4	1579.7	1698.2	1942.8	1728.0
32.5°	1791.9	1798.6	1768.9	1718.1	1625.7	1518.1	1521.5	1582.3	1697.4	1991.9	1742.1
35°	1919.7	1927.0	1911.9	1868.8	1766.0	1621.9	1575.2	1622.2	1724.2	2067.1	1779.6
37.5°	2062.1	2073.6	2077.8	2036.9	1927.0	1758.5	1663.1	1698.2	1785.0	2171.6	1848.6
40°	2267.4	2283.5	2282.2	2223.7	2111.6	1943.2	1799.0	1808.1	1879.6	2311.2	1958.8
42.5°	2660.6	2663.8	2561.1	2433.4	2314.9	2137.2	1959.4	1951.8	2010.0	2487.9	2121.2
45°	3160.6	3147.1	2918.2	2671.6	2527.1	2360.2	2167.9	2131.5	2175.7	2703.4	2324.4
47.5°	3575.8	3544.4	3255.3	2915.0	2751.9	2602.7	2412.8	2349.2	2373.5	2948.0	2587.1
50°	3719.9	3696.3	3456.9	3117.4	2964.5	2898.4	2714.3	2624.2	2630.9	3239.6	2894.8
52.5°	3688.9	3685.7	3525.8	3250.7	3163.7	3209.0	3141.4	3019.5	2955.1	3563.3	3226.8
55°	3615.9	3622.9	3565.1	3406.1	3391.2	3508.9	3699.3	3609.2	3408.9	3890.1	3570.0
57.5°	3361.8	3380.1	3507.3	3601.3	3757.5	3932.6	4148.6	4123.0	3897.4	4243.2	3978.1
60°	2708.5	2750.6	3091.7	3563.3	4134.5	4682.2	4778.9	4719.3	4401.3	4681.3	4516.9
62.5°	1897.8	1941.5	2347.1	3085.0	4072.6	5528.9	5905.5	5649.0	5124.9	5326.9	5214.7
65°	1016.1	1037.1	1346.7	2140.7	3438.3	5703.6	7552.2	7161.8	6270.6	6122.8	5811.3
67.5°	560.5	572.0	690.5	1080.8	2202.1	5022.6	8601.2	8896.0	7702.4	6652.7	5702.7
69°	506.7	517.6	595.1	818.5	1473.6	4152.8	8498.8	9353.3	8330.3	6600.1	5301.3
70°	495.7	505.6	575.4	754.5	1192.8	3423.0	8155.5	9236.5	8479.8	6412.3	4951.1
72.5°	446.1	456.8	524.5	677.7	1019.2	1706.5	6460.3	7809.4	7698.7	5559.8	3755.5
75°	415.8	425.7	540.6	663.7	975.9	1080.0	4258.9	5755.6	5659.4	3889.2	2025.0
77.5°	178.0	177.1	250.6	561.7	990.4	1045.7	2288.4	3595.6	3280.5	1662.4	581.6
80°	118.9	116.9	118.9	165.2	908.1	1051.5	1199.0	1825.0	1378.5	423.7	286.6
82.5°	102.4	100.8	104.6	100.8	319.3	1200.1	1019.2	970.6	655.5	240.7	142.1
85°	69.0	66.0	90.0	90.5	150.7	1066.4	1148.2	819.9	530.3	142.9	70.2
87.5°	33.1	32.2	52.5	64.0	88.5	433.3	1288.2	840.0	534.9	73.1	33.4
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°	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6	2178.6
2.5°	2157.5	2140.7	2124.1	2104.3	2083.6	2060.4	2048.9	2037.4	2034.4	2031.2	2019.6
5°	2098.0	2074.0	2032.9	1987.4	1939.5	1892.8	1857.2	1835.0	1818.0	1809.4	1794.1
7.5°	2021.2	1986.2	1913.8	1835.3	1754.8	1681.4	1617.8	1577.7	1539.7	1521.9	1501.6
10°	1948.2	1895.8	1783.3	1667.8	1552.0	1441.1	1336.5	1262.6	1196.9	1160.2	1134.1
12.5°	1885.4	1813.5	1657.8	1501.2	1342.6	1184.4	1028.0	905.0	802.0	748.0	720.4
15°	1824.3	1737.5	1538.4	1339.8	1136.1	921.0	715.3	575.8	490.7	456.8	445.2
17.5°	1768.9	1657.8	1418.7	1177.0	923.1	662.9	480.8	403.9	371.3	360.1	356.4
20°	1709.0	1577.2	1294.4	1006.9	700.9	463.3	375.4	341.5	328.3	325.0	323.4
22.5°	1651.2	1498.0	1175.4	824.7	503.4	357.6	322.5	308.5	306.4	309.3	309.3
25°	1602.0	1426.9	1047.0	634.4	369.7	301.1	288.6	285.4	293.2	303.9	306.1
27.5°	1565.2	1368.7	910.3	468.3	294.5	261.9	261.4	266.7	286.2	307.0	311.1
30°	1540.1	1313.3	764.1	337.9	246.9	230.4	237.1	248.7	277.1	306.4	314.2
32.5°	1527.3	1272.4	611.7	261.4	211.5	202.4	213.5	227.6	255.7	282.8	293.2
35°	1537.2	1242.4	467.9	218.1	186.7	179.7	191.2	204.9	221.3	232.9	240.7
37.5°	1574.4	1230.3	353.2	195.3	169.7	163.1	172.2	180.1	186.7	190.0	193.8
40°	1654.5	1243.2	282.8	183.9	160.3	152.1	155.6	158.6	162.8	166.0	167.7
42.5°	1772.6	1281.5	253.6	179.2	155.2	143.3	142.6	143.6	149.1	155.2	156.6
45°	1937.9	1349.3	251.5	182.1	152.8	136.4	132.6	134.2	142.6	152.1	153.6
47.5°	2148.8	1452.5	268.1	190.8	154.9	132.6	126.4	128.5	138.8	151.5	153.6
50°	2404.6	1596.6	295.7	203.6	164.0	133.4	124.3	125.6	136.4	150.3	152.4
52.5°	2706.5	1801.1	325.8	216.0	173.5	138.8	125.9	123.1	132.9	145.3	147.9
55°	3042.2	2063.3	356.8	227.1	178.5	145.3	129.3	119.7	126.8	137.1	139.1
57.5°	3454.3	2430.2	410.5	238.0	181.6	149.8	132.6	116.5	118.9	126.4	128.0
60°	4012.3	2948.9	505.0	255.7	189.2	151.5	132.2	113.5	111.1	115.3	116.1
62.5°	4681.0	3512.2	584.0	277.9	201.5	152.8	129.6	111.5	104.6	104.6	105.3
65°	5077.8	3662.8	540.2	296.5	211.9	151.5	126.8	109.5	99.5	95.0	95.4
67.5°	4741.3	3221.4	462.9	300.3	211.5	145.7	122.3	105.7	94.6	87.6	87.1
69°	4319.6	2779.5	428.3	290.3	201.5	138.3	116.5	101.6	90.9	83.5	83.1
70°	3979.8	2509.9	405.6	279.6	190.8	132.9	111.8	97.8	87.9	80.9	80.0
72.5°	2893.5	1644.5	346.4	240.3	157.4	111.5	96.7	85.9	78.5	74.3	73.5
75°	1445.9	784.3	281.3	194.9	120.6	89.2	79.3	71.9	68.1	67.4	67.0
77.5°	474.9	359.3	201.1	145.3	89.7	69.8	64.0	58.7	57.9	60.2	59.5
80°	261.0	208.9	127.6	96.2	61.2	51.3	50.3	47.5	48.8	52.9	52.0
82.5°	132.9	108.7	79.0	57.9	41.3	36.8	40.1	38.4	40.1	43.7	43.4
85°	65.7	59.5	49.9	35.2	27.3	23.5	28.4	29.7	30.5	33.4	33.4
87.5°	38.0	35.2	26.4	16.4	13.7	12.3	16.4	16.1	19.0	20.7	20.2
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)