

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: P191561

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14913.6 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

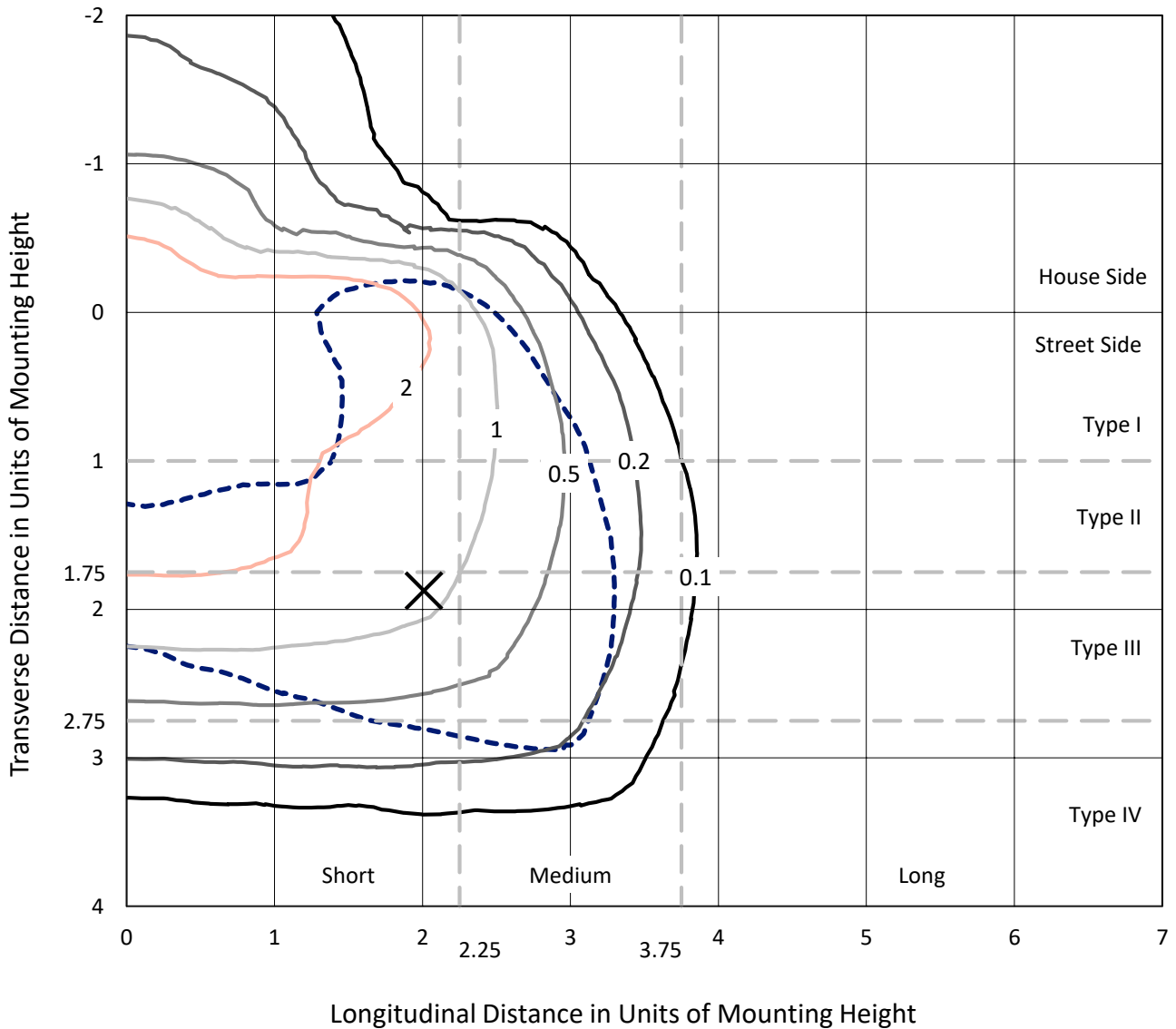
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

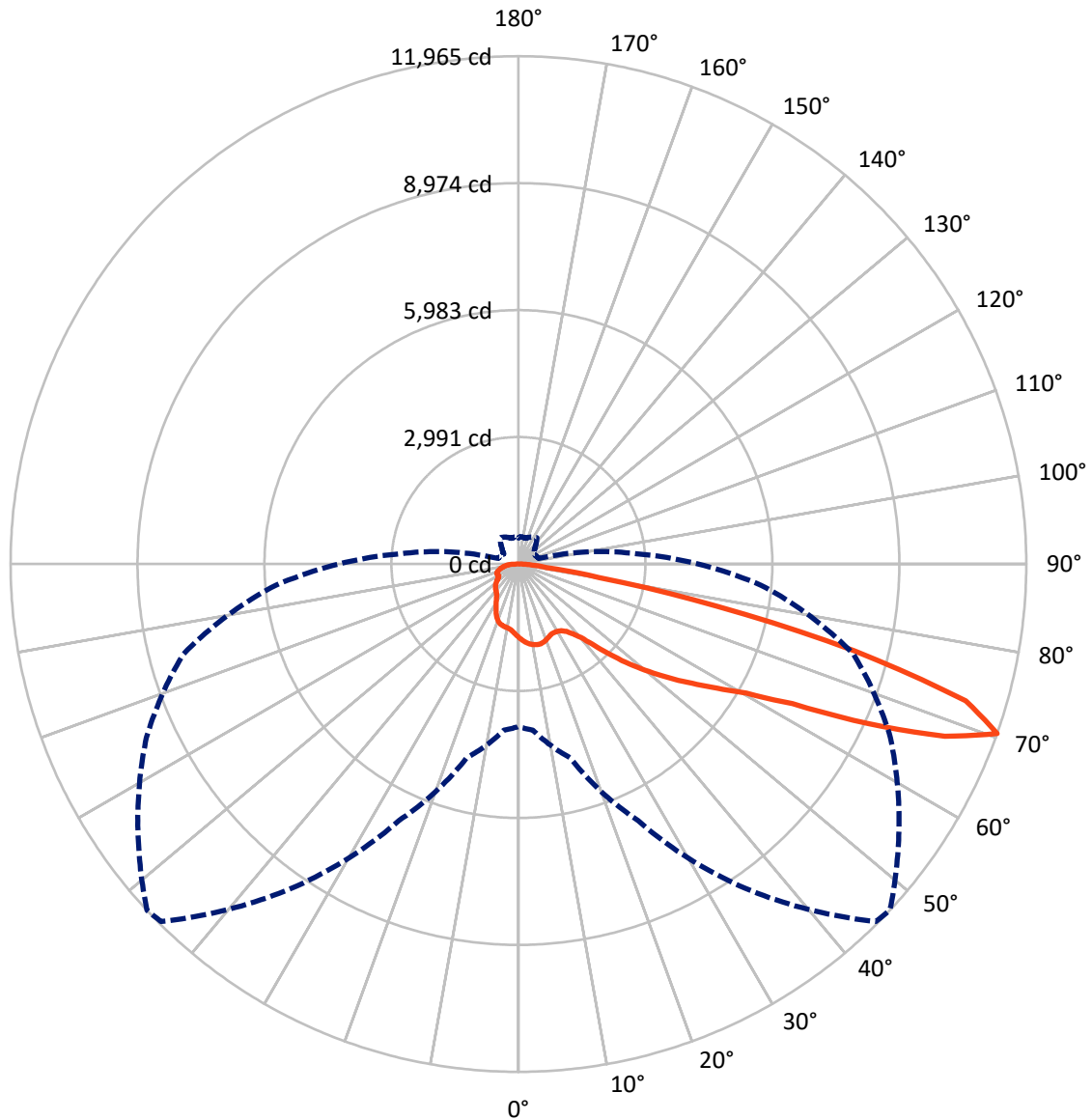
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3111.3	0.0	3111.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	11802.3	0.0	11802.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	14913.6	0.0	14913.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	1.1
10°-20°	486.4	3.3
20°-30°	718.3	4.8
30°-40°	1044.1	7.0
40°-50°	1879.0	12.6
50°-60°	3255.1	21.8
60°-70°	4646.0	31.2
70°-80°	2385.0	16.0
80°-90°	333.9	2.2
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°	14913.6	100.0
0°-180°	14913.6	100.0



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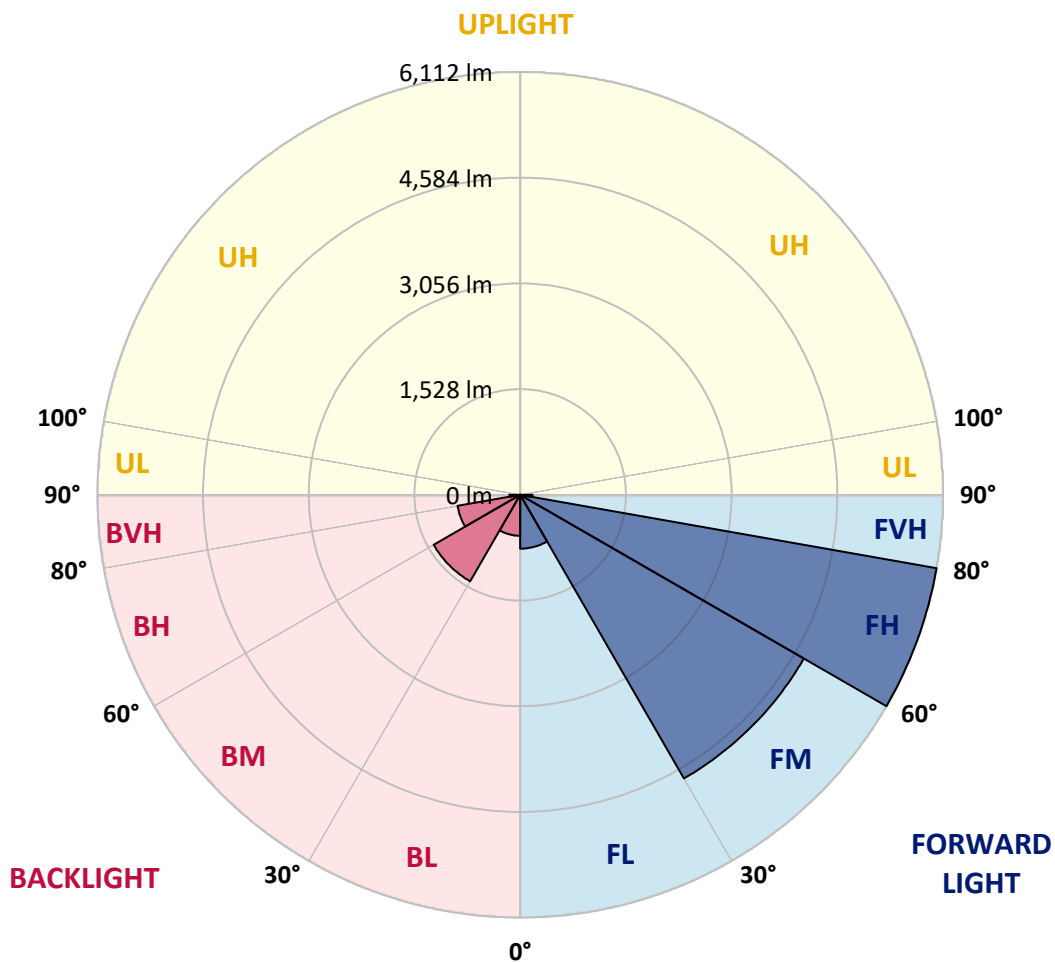
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	778.2	5.2			
FM	(30°-60°)	4734.0	31.7			
FH	(60°-80°)	6112.0	41.0			G3/7500
FVH	(80°-90°)	178.2	1.2			G2/225
BL	(0°-30°)	592.4	4.0	B2/1000		
BM	(30°-60°)	1444.2	9.7	B2/2500		
BH	(60°-80°)	919.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	155.7	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4
2.5°	1832.0	1828.4	1827.0	1824.0	1820.4	1802.2	1798.7	1785.6	1767.5	1748.5	1729.0
5°	1952.5	1951.7	1943.7	1929.3	1906.1	1866.2	1856.7	1824.7	1782.0	1740.6	1699.2
7.5°	2058.4	2051.8	2036.6	2007.6	1966.9	1912.5	1899.5	1855.2	1796.5	1739.8	1684.0
10°	2136.0	2132.4	2099.0	2059.1	2006.1	1946.0	1930.7	1881.3	1816.8	1744.9	1675.3
12.5°	2180.3	2173.1	2134.6	2086.7	2023.6	1964.8	1949.5	1899.5	1827.0	1744.9	1663.0
15°	2177.4	2172.3	2133.9	2081.6	2017.8	1966.2	1952.5	1902.4	1824.7	1737.7	1647.1
17.5°	2119.3	2121.5	2088.9	2037.3	1985.1	1946.0	1933.6	1887.1	1810.2	1723.2	1628.1
20°	2017.8	2027.9	2006.1	1960.5	1931.4	1904.5	1896.6	1857.4	1787.8	1702.2	1607.9
22.5°	1916.2	1925.6	1916.9	1878.4	1874.1	1858.2	1853.8	1825.5	1768.2	1689.1	1595.5
25°	1841.4	1850.1	1848.7	1815.3	1828.4	1827.7	1824.0	1810.2	1763.8	1689.1	1597.6
27.5°	1821.2	1824.0	1821.2	1790.7	1808.8	1823.3	1820.4	1818.2	1776.9	1710.2	1625.3
30°	1890.8	1886.4	1863.9	1802.2	1818.9	1839.3	1836.4	1837.8	1816.0	1765.3	1686.9
32.5°	2168.7	2149.1	2078.0	1904.5	1860.3	1871.2	1872.6	1896.6	1900.2	1850.1	1782.7
35°	2584.4	2562.7	2470.5	2178.8	1988.7	1951.0	1951.0	1987.3	2009.1	1972.0	1931.4
37.5°	3024.9	3000.9	2951.5	2559.0	2258.7	2089.6	2086.0	2111.4	2142.6	2151.3	2161.4
40°	3525.5	3500.0	3513.8	2985.7	2635.2	2329.8	2278.2	2260.1	2344.3	2400.1	2481.4
42.5°	4073.3	4061.6	4066.7	3460.8	3064.0	2688.9	2615.6	2522.0	2623.6	2723.0	2893.5
45°	4580.4	4590.6	4585.5	3969.5	3541.5	3127.2	3049.5	2868.1	2967.5	3138.0	3415.9
47.5°	5024.4	4982.4	5047.6	4525.2	4076.2	3617.6	3521.8	3278.8	3379.6	3590.0	4060.2
50°	5563.5	5557.7	5461.9	5266.8	4722.7	4110.2	3984.7	3703.2	3859.9	4152.4	4872.1
52.5°	6130.2	6025.0	5937.2	5843.6	5408.2	4615.2	4461.4	4126.2	4424.5	4792.3	5861.7
55°	6246.2	6199.1	6307.9	6465.4	6069.3	5139.8	4960.6	4656.6	5060.0	5523.6	7003.0
57.5°	6494.4	6493.7	6718.6	6999.4	6749.8	5696.3	5515.6	5297.2	5774.7	6361.6	8214.7
60°	6662.1	6709.2	7127.1	7672.0	7418.0	6339.1	6173.0	6036.6	6587.3	7298.3	9343.6
62.5°	6749.8	6813.7	7384.0	7944.7	8362.7	7409.3	7243.2	7046.6	7662.5	8325.7	10003.9
65°	6384.8	6510.4	7344.1	8180.6	9189.9	9144.2	9069.4	8724.0	9007.0	9137.6	9765.2
67.5°	5374.9	5503.3	6474.1	7960.8	9780.4	10817.3	10833.3	10243.3	9834.1	9207.3	8210.3
70°	3829.4	3930.3	4733.5	6674.3	9330.6	11910.6	11965.0	10943.5	9669.4	8165.4	5736.2
72.5°	1818.2	1879.9	2640.2	4343.9	7404.2	10913.0	11018.2	10049.7	8222.0	6045.3	3129.3
75°	668.2	687.1	892.4	1848.0	4294.6	8047.9	8171.9	7204.0	5450.4	3009.6	1192.0
77.5°	400.5	412.9	500.6	780.0	1689.1	4600.0	4783.5	3918.0	2381.9	1120.2	586.3
80°	280.1	288.8	359.2	485.4	798.1	1752.9	1916.2	1599.1	949.0	708.9	426.7
82.5°	189.3	193.7	252.5	328.0	530.4	626.1	675.5	711.1	640.0	527.4	270.7
85°	124.1	128.4	171.2	216.3	337.4	323.6	330.8	418.7	467.3	358.4	150.2
87.5°	71.1	74.0	103.0	115.4	165.4	137.2	138.6	220.5	298.9	241.6	91.5
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°	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4	1730.4
2.5°	1723.9	1714.5	1693.4	1680.4	1668.0	1665.2	1660.0	1659.3	1658.6	1658.6	1656.5
5°	1685.4	1669.5	1636.8	1618.7	1603.5	1602.0	1601.3	1604.9	1606.3	1607.9	1605.6
7.5°	1660.8	1639.0	1598.4	1572.3	1554.2	1549.8	1557.0	1573.7	1584.7	1588.9	1586.8
10°	1645.5	1618.7	1571.6	1543.2	1528.0	1525.8	1535.2	1554.9	1577.4	1586.1	1585.4
12.5°	1628.1	1597.6	1547.6	1517.9	1509.2	1513.5	1525.8	1543.9	1567.2	1581.0	1581.7
15°	1610.7	1575.1	1523.7	1497.5	1493.9	1499.7	1511.3	1525.1	1543.2	1557.0	1558.5
17.5°	1589.7	1552.6	1501.2	1474.3	1471.4	1474.3	1475.1	1482.3	1493.9	1507.0	1510.6
20°	1567.2	1529.4	1475.8	1448.9	1435.9	1424.3	1411.2	1412.7	1416.3	1429.4	1432.2
22.5°	1551.2	1513.5	1456.2	1419.1	1384.4	1349.5	1323.4	1319.8	1321.2	1332.1	1335.8
25°	1552.6	1512.7	1451.1	1387.2	1311.1	1255.2	1220.4	1214.5	1213.8	1221.8	1226.9
27.5°	1581.0	1541.1	1470.0	1354.6	1231.2	1148.6	1111.5	1107.2	1101.4	1103.6	1109.4
30°	1644.1	1607.1	1515.7	1321.2	1144.9	1044.0	1005.7	1001.3	993.3	989.6	994.0
32.5°	1747.1	1716.6	1582.4	1289.3	1058.5	954.8	915.6	906.2	901.1	896.8	900.4
35°	1918.3	1905.3	1671.7	1254.4	982.4	885.9	850.4	835.9	828.6	836.6	842.4
37.5°	2186.9	2194.0	1788.5	1200.0	923.6	840.1	810.5	793.7	782.9	789.4	796.0
40°	2567.0	2572.1	1917.6	1123.2	872.9	813.3	781.4	766.2	750.9	739.3	738.6
42.5°	3066.2	3014.6	2044.6	1039.7	814.1	796.7	761.1	742.3	719.0	687.1	680.6
45°	3658.3	3477.5	2141.1	944.0	748.1	776.3	738.6	712.5	676.2	641.4	637.8
47.5°	4340.3	3974.6	2188.3	844.5	686.4	746.5	711.1	669.7	624.0	606.6	604.4
50°	5173.2	4564.4	2210.8	748.1	632.7	707.4	671.2	622.6	584.1	580.4	578.3
52.5°	6121.4	5274.0	2218.0	669.0	588.4	656.6	638.5	591.4	560.9	563.7	563.7
55°	7114.0	6006.9	2119.3	611.6	547.8	604.4	616.7	579.0	553.6	565.2	569.6
57.5°	8025.4	6656.2	1808.8	567.4	509.3	564.5	608.8	590.5	573.2	620.3	623.3
60°	8724.7	7040.0	1351.0	527.4	481.0	550.7	629.7	634.8	639.2	751.7	766.9
62.5°	8871.3	6912.4	928.7	496.2	468.0	562.3	668.2	669.0	663.9	742.3	751.7
65°	8198.7	6104.8	675.5	478.8	457.1	583.4	700.9	685.7	652.2	711.8	694.4
67.5°	6511.1	4599.3	562.3	465.9	441.1	581.9	735.7	700.9	645.8	697.2	669.0
70°	4226.3	2781.0	500.6	454.9	422.3	554.3	756.1	699.4	626.9	648.7	615.3
72.5°	2062.1	1243.6	459.3	438.9	402.6	515.9	755.3	686.4	607.3	605.8	587.7
75°	806.8	569.6	421.6	415.0	369.3	472.3	735.0	667.5	584.1	560.9	554.3
77.5°	472.3	406.3	373.7	379.5	329.4	428.8	705.2	634.8	552.2	524.6	517.3
80°	343.9	304.0	318.5	328.0	281.5	385.2	665.3	594.9	516.6	530.4	520.2
82.5°	220.5	195.9	258.3	267.7	234.4	341.1	621.7	552.9	466.6	423.7	413.6
85°	112.4	124.1	192.3	203.9	180.7	280.1	568.9	497.1	409.9	352.6	358.4
87.5°	63.1	84.9	122.7	137.2	127.7	215.5	461.5	409.9	334.5	272.1	239.5
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)