

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: P193280

Luminaire Tested: **GLEON-AF-02-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12998.5 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 129
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

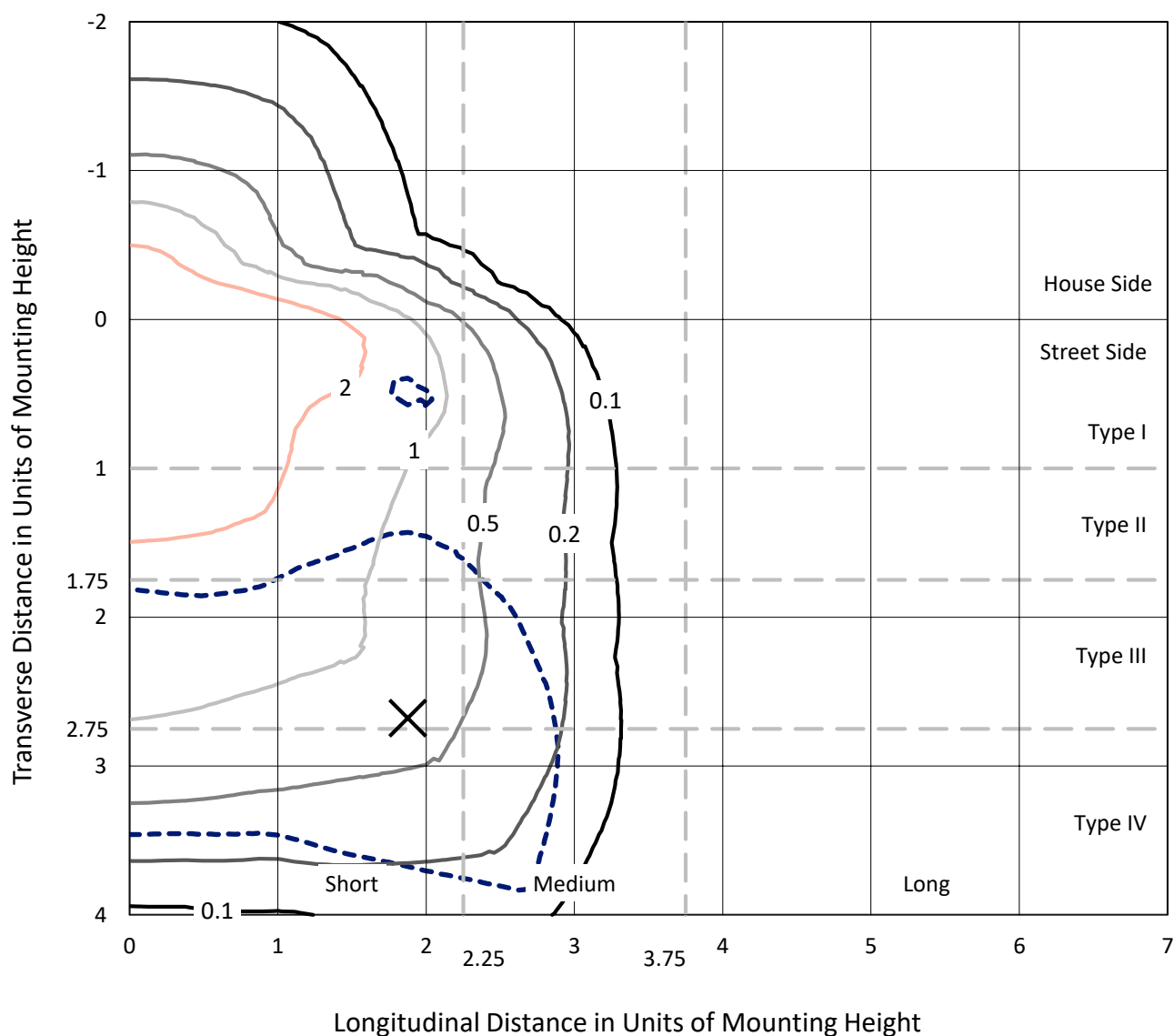


REPORT NUMBER: P193280

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

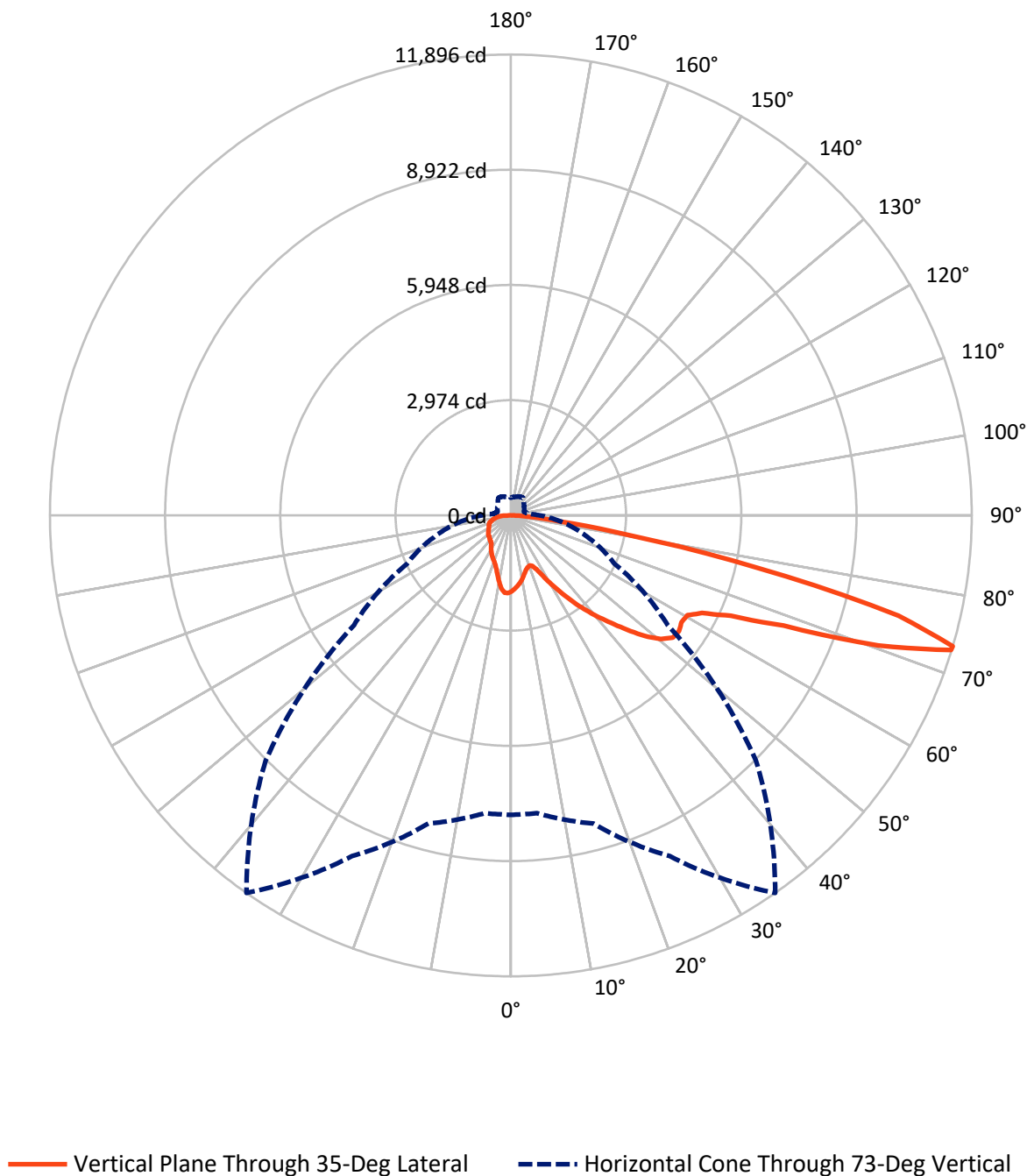


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P193280

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-1200

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2479.2	0.0	2479.2
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	10519.4	0.0	10519.4
	% Fixture	80.9	0.0	80.9
Total	Lumens	12998.5	0.0	12998.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.4
10°-20°	443.3	3.4
20°-30°	716.6	5.5
30°-40°	1201.7	9.2
40°-50°	1852.3	14.3
50°-60°	2485.1	19.1
60°-70°	3310.7	25.5
70°-80°	2525.0	19.4
80°-90°	286.2	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°	12998.5	100.0
0°-180°	12998.5	100.0

Coefficient of Utilization



REPORT NUMBER: P193280

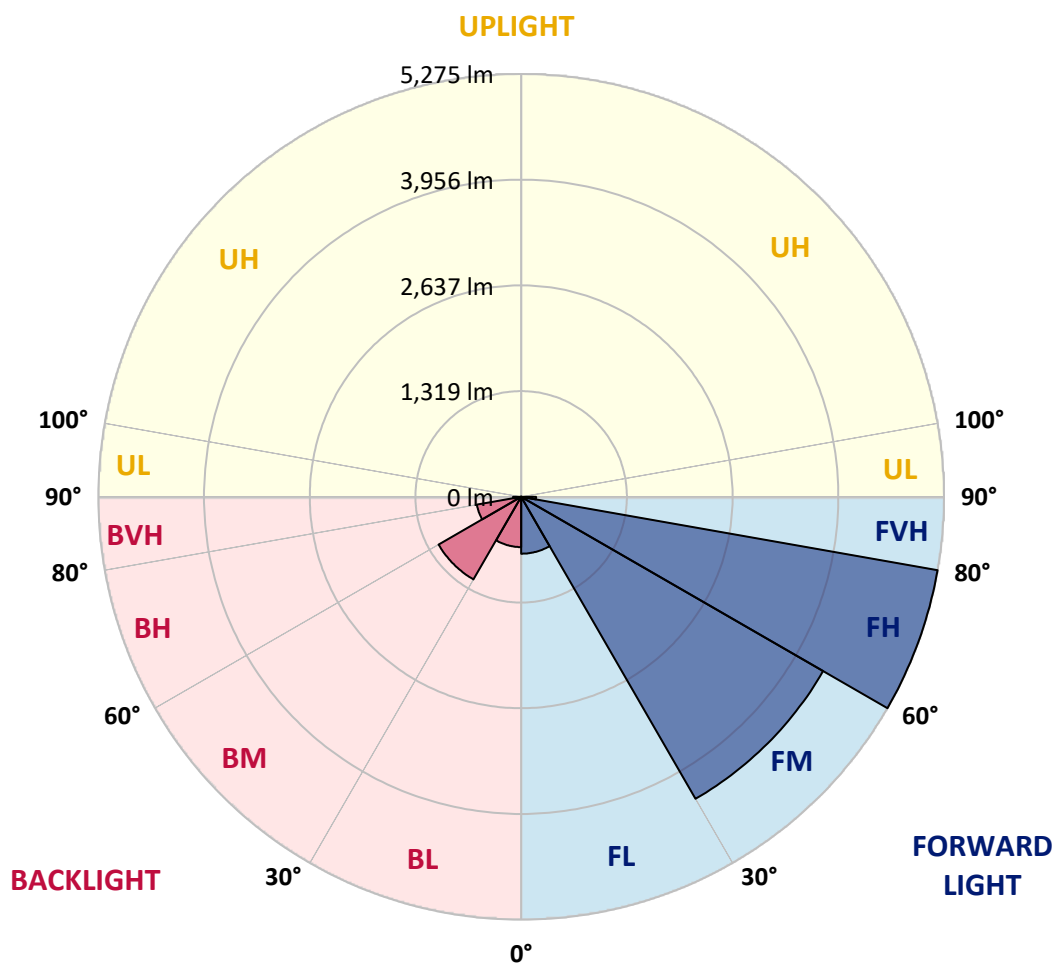
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.2	5.5			
FM	(30°-60°)	4349.4	33.5			
FH	(60°-80°)	5274.8	40.6			G3/7500
FVH	(80°-90°)	185.0	1.4			G2/225
BL	(0°-30°)	627.3	4.8	B2/1000		
BM	(30°-60°)	1189.7	9.2	B2/2500		
BH	(60°-80°)	560.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	101.2	0.8			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



REPORT NUMBER: P193280

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9
2.5°	1884.5	1888.2	1883.8	1889.5	1898.8	1908.9	1915.7	1925.7	1936.9	1952.6	1956.3
5°	1795.9	1801.4	1801.4	1811.4	1829.5	1845.8	1860.8	1877.0	1900.7	1927.6	1938.2
7.5°	1698.4	1701.6	1707.1	1722.2	1748.3	1771.5	1792.7	1818.9	1851.4	1887.0	1905.7
10°	1581.1	1585.5	1594.2	1615.4	1651.0	1682.9	1713.4	1749.7	1790.9	1835.2	1858.9
12.5°	1498.1	1496.9	1500.5	1516.2	1547.4	1586.1	1630.4	1676.6	1727.2	1779.0	1807.7
15°	1470.0	1463.2	1448.8	1445.1	1461.9	1500.5	1551.8	1608.7	1669.2	1731.5	1767.2
17.5°	1487.4	1475.6	1436.3	1407.6	1405.1	1434.5	1488.7	1552.3	1622.3	1698.4	1742.8
20°	1597.4	1569.3	1472.5	1405.7	1382.6	1397.0	1444.4	1511.8	1594.2	1695.3	1752.2
22.5°	1860.1	1818.9	1613.5	1489.3	1411.3	1393.8	1429.4	1501.2	1597.4	1734.1	1806.5
25°	2242.8	2184.1	1855.8	1697.9	1536.8	1443.8	1451.9	1525.6	1641.6	1824.0	1911.4
27.5°	2544.8	2506.9	2172.3	1991.8	1765.3	1578.6	1524.9	1586.8	1732.2	1971.2	2060.5
30°	2724.7	2701.6	2510.6	2325.1	2056.8	1793.4	1664.8	1701.6	1873.9	2175.4	2249.0
32.5°	2933.2	2919.4	2825.8	2655.4	2371.4	2075.5	1886.4	1873.2	2063.7	2420.6	2454.4
35°	3149.2	3144.8	3089.9	2967.5	2709.1	2447.5	2180.4	2091.8	2270.3	2675.3	2654.1
37.5°	3350.1	3342.7	3310.8	3239.6	3062.3	2847.0	2479.9	2315.9	2493.1	2918.8	2824.6
40°	3720.3	3661.6	3552.3	3498.7	3419.4	3183.5	2717.9	2524.9	2724.1	3151.0	2971.9
42.5°	4171.6	4076.1	3872.5	3799.0	3787.7	3448.8	2880.1	2727.7	2956.9	3381.3	3116.7
45°	4526.7	4436.9	4261.4	4168.5	4209.6	3689.0	3043.0	2944.4	3196.6	3622.9	3265.9
47.5°	4905.6	4764.6	4532.4	4560.5	4650.4	3916.3	3209.1	3177.3	3459.3	3893.2	3451.3
50°	4919.4	4811.4	4709.6	4877.6	5017.4	4125.4	3417.0	3421.2	3780.8	4233.4	3697.8
52.5°	4634.1	4611.1	4772.7	5036.8	5238.3	4290.8	3653.5	3673.6	4192.2	4624.2	3968.8
55°	4534.3	4508.0	4694.7	4981.2	5268.4	4427.5	3910.1	3946.2	4689.7	5036.1	4232.8
57.5°	4777.7	4719.7	4732.1	4955.0	5195.3	4577.3	4189.6	4262.8	5230.2	5396.4	4402.5
60°	5458.0	5333.8	5097.9	5092.2	5234.6	4802.1	4513.1	4602.3	5792.1	5568.6	4336.4
62.5°	6412.5	6288.3	5846.4	5558.6	5537.4	5172.8	4910.0	4933.7	6116.7	5335.1	3932.6
65°	7445.6	7334.5	6840.7	6434.4	6238.3	5787.0	5371.3	5081.6	6010.5	4692.8	3225.9
67.5°	8699.6	8580.3	8155.8	7780.8	7592.2	6778.3	5695.2	4939.9	5337.0	3635.4	2318.9
70°	9576.6	9454.9	9287.6	9591.6	10052.8	8208.3	5737.1	4363.9	3986.3	2416.3	1395.7
72.5°	8432.4	8375.6	8680.8	9961.1	11882.5	9075.9	5185.9	3177.3	2315.2	1282.7	807.8
73°	7725.8	7713.3	8233.9	9702.1	11895.6	8942.5	4944.3	2953.2	1985.6	1134.7	738.5
75°	3488.7	3589.1	4730.3	7410.6	10335.1	7368.8	3480.0	1694.1	1121.6	784.1	557.4
77.5°	838.3	873.3	1480.0	3519.2	6526.7	4391.3	1576.7	837.7	717.2	553.7	407.0
80°	357.1	368.9	569.9	1300.1	3073.0	1768.4	726.6	561.1	496.2	386.3	285.2
82.5°	198.6	211.0	323.3	589.9	1240.3	603.0	443.1	390.7	326.4	232.8	185.4
85°	112.3	119.2	189.1	329.6	525.5	242.2	265.3	259.7	184.1	119.8	91.1
87.5°	53.1	57.5	91.1	153.0	206.0	94.8	134.8	148.6	115.5	72.9	47.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P193280

CATALOG NUMBER: GLEON-AF-02-LED-E1-T4FT-7030-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9	1961.9
2.5°	1960.6	1971.9	1985.0	1991.8	1998.2	2005.6	2013.1	2013.1	2014.3	2015.0
5°	1946.9	1970.1	1990.6	1999.3	2001.2	2001.2	1999.3	1989.4	1980.7	1984.3
7.5°	1918.1	1951.9	1969.4	1966.2	1942.5	1915.1	1892.0	1863.9	1849.5	1847.0
10°	1877.0	1915.7	1918.8	1887.6	1828.9	1770.2	1721.6	1674.2	1651.7	1646.0
12.5°	1831.4	1867.0	1847.0	1782.8	1688.5	1603.0	1541.2	1493.1	1471.8	1466.3
15°	1794.6	1818.9	1768.4	1667.3	1548.6	1458.2	1406.9	1371.4	1356.5	1352.1
17.5°	1775.3	1780.3	1687.8	1551.2	1425.1	1349.6	1317.6	1300.8	1295.3	1292.1
20°	1784.6	1749.7	1611.1	1443.2	1323.9	1270.9	1263.4	1259.0	1257.8	1255.9
22.5°	1831.4	1740.3	1540.5	1340.8	1235.2	1212.2	1218.5	1217.8	1216.6	1215.3
25°	1915.1	1748.3	1471.8	1243.4	1161.0	1156.1	1167.2	1167.2	1162.3	1162.3
27.5°	2025.5	1765.3	1395.1	1151.0	1093.5	1094.2	1103.0	1100.5	1094.9	1091.1
30°	2160.4	1775.9	1305.2	1068.0	1030.6	1028.0	1030.6	1019.9	1003.1	1001.9
32.5°	2298.4	1762.8	1201.0	994.4	963.7	958.2	956.2	941.3	921.9	916.3
35°	2423.2	1714.8	1094.9	935.7	900.1	887.6	896.4	891.3	873.8	869.4
37.5°	2514.3	1625.4	999.4	883.9	854.5	851.4	857.0	858.9	838.3	833.9
40°	2575.5	1504.4	917.6	840.2	845.7	833.9	815.2	802.1	795.9	794.0
42.5°	2624.9	1378.3	849.0	819.6	847.7	813.3	772.8	751.6	762.7	767.8
45°	2681.5	1255.3	791.5	794.0	838.3	789.6	743.4	722.9	727.2	728.4
47.5°	2759.7	1105.4	729.8	752.8	807.1	773.4	725.4	696.0	675.4	666.1
50°	2867.6	928.1	665.4	706.6	776.5	761.5	697.3	666.1	627.9	619.2
52.5°	2942.6	762.7	612.4	667.9	749.1	737.8	674.7	634.2	594.3	586.7
55°	2901.9	633.6	566.2	624.9	712.8	708.4	656.0	601.7	570.6	564.4
57.5°	2699.0	551.8	530.6	584.2	668.5	683.5	631.1	574.2	551.8	547.4
60°	2312.0	500.6	508.0	556.7	632.3	658.5	606.1	559.3	544.3	541.2
62.5°	1793.9	466.3	491.2	536.8	604.2	641.1	592.4	557.4	551.8	548.1
65°	1285.2	438.7	473.2	516.8	578.6	624.9	587.4	554.9	556.1	553.1
67.5°	873.3	414.4	451.4	494.4	553.7	610.4	580.5	546.2	561.8	558.1
70°	611.1	390.7	425.7	465.7	522.5	590.5	568.0	533.0	531.9	516.8
72.5°	476.9	359.6	390.7	425.7	482.5	562.4	543.0	503.6	483.2	467.5
73°	455.1	352.1	382.0	417.0	473.7	555.6	536.3	495.6	472.5	458.2
75°	376.4	319.6	347.0	378.2	436.3	523.2	502.5	458.8	429.5	420.7
77.5°	295.9	273.3	299.6	327.7	384.5	475.6	452.6	410.7	394.5	387.0
80°	219.1	226.6	249.6	274.7	333.3	425.1	404.5	362.6	435.1	417.0
82.5°	154.2	171.6	192.9	215.3	279.6	375.8	350.8	307.8	318.4	264.6
85°	91.1	112.3	132.3	151.7	201.6	311.5	289.6	245.3	201.0	191.6
87.5°	53.1	62.4	68.1	88.1	138.5	234.7	204.1	181.7	104.3	70.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)