

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: P191490

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12738.8 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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

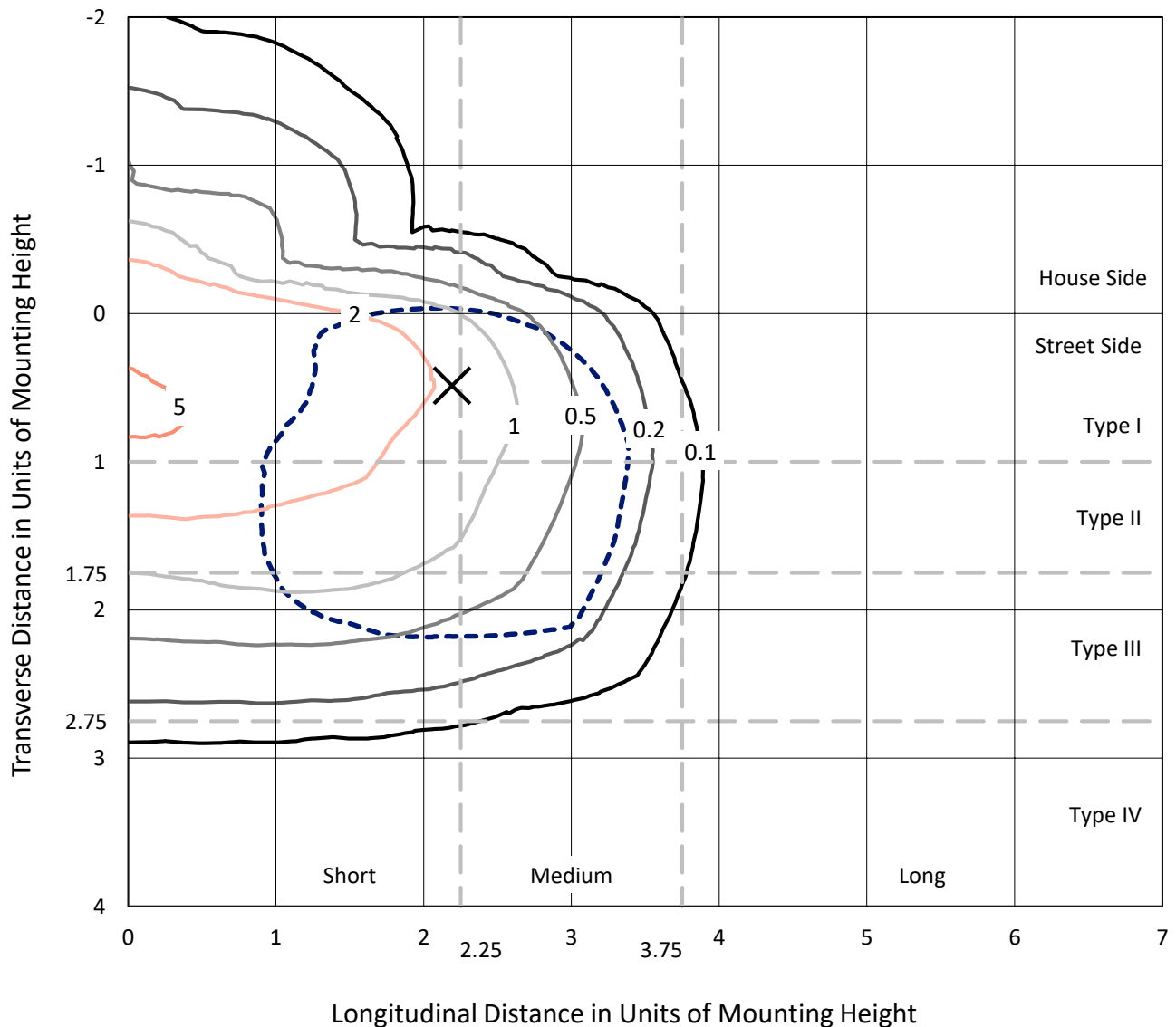


REPORT NUMBER: P191490

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R

Iso-Footcandle Lines of Horizontal Illumination

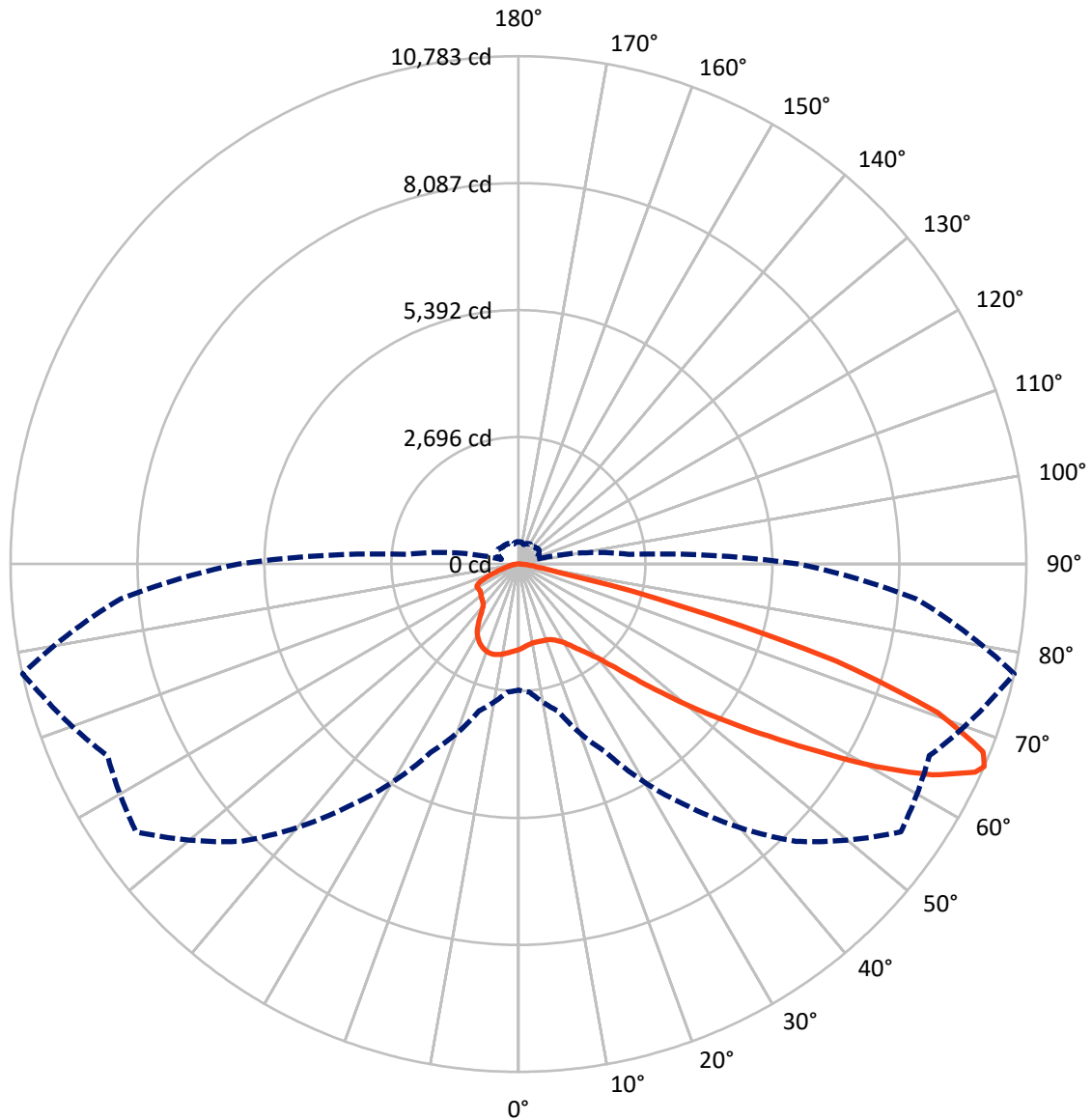
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P191490
CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P191490

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.4	0.0	2176.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	10562.5	0.0	10562.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	12738.8	0.0	12738.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.3
10°-20°	457.6	3.6
20°-30°	780.9	6.1
30°-40°	1250.1	9.8
40°-50°	1931.2	15.2
50°-60°	2739.1	21.5
60°-70°	3664.2	28.8
70°-80°	1591.3	12.5
80°-90°	162.3	1.3
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°	12738.8	100.0
0°-180°	12738.8	100.0



REPORT NUMBER: P191490

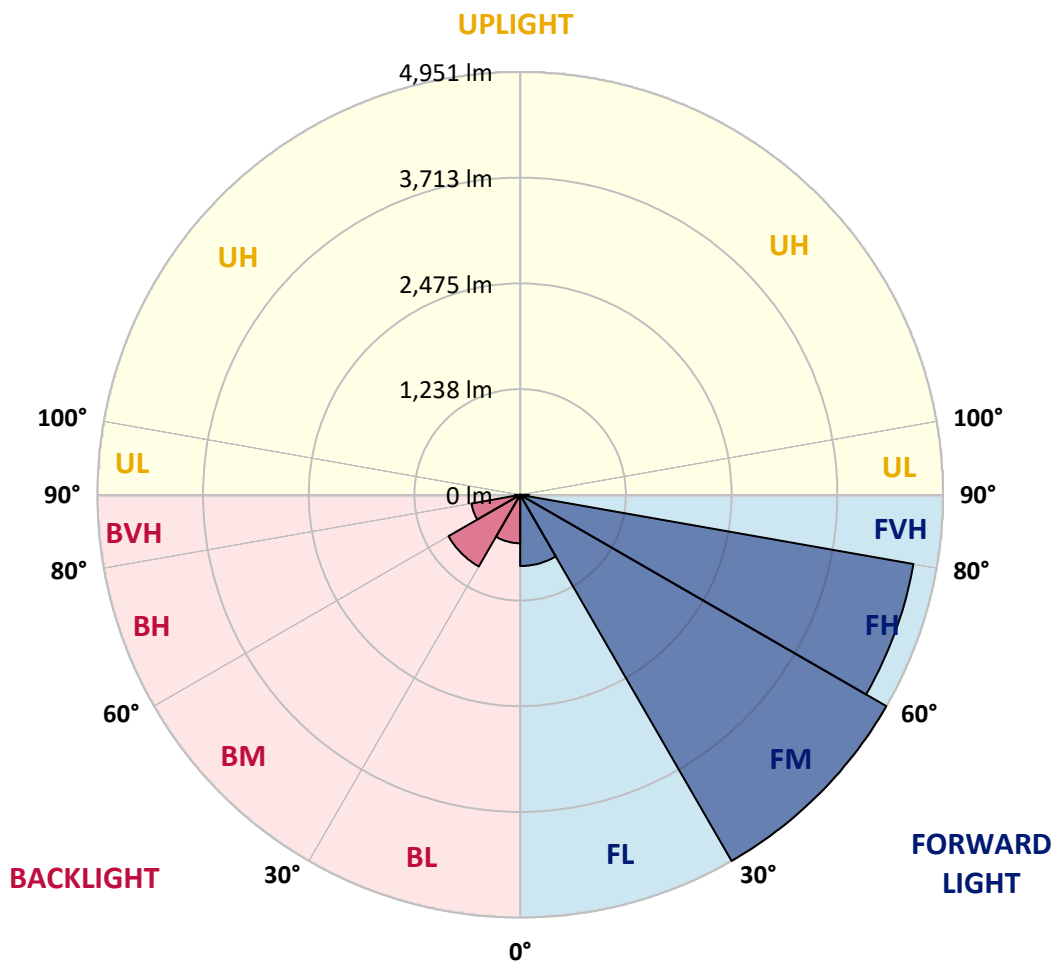
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.8	6.5			
FM	(30°-60°)	4951.0	38.9			
FH	(60°-80°)	4675.9	36.7			G2/5000
FVH	(80°-90°)	101.8	0.8			G2/225
BL	(0°-30°)	566.8	4.4	B2/1000		
BM	(30°-60°)	969.4	7.6	B1/1000		
BH	(60°-80°)	579.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	60.5	0.5			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 III Short





REPORT NUMBER: P191490

CATALOG NUMBER: GLEON-AF-02-LED-E1-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3
2.5°	1605.8	1616.7	1625.8	1634.2	1651.0	1678.7	1710.6	1736.5	1773.8	1781.1	1800.9
5°	1458.4	1458.4	1465.7	1478.3	1501.2	1542.7	1586.0	1643.8	1725.1	1744.3	1797.3
7.5°	1386.8	1387.4	1391.6	1402.5	1422.3	1460.3	1507.7	1575.8	1685.9	1717.8	1808.2
10°	1413.3	1407.3	1398.3	1392.8	1395.8	1418.1	1463.2	1539.0	1661.9	1702.8	1832.2
12.5°	1561.3	1549.9	1518.6	1477.0	1437.3	1421.1	1447.6	1521.6	1651.7	1699.2	1864.1
15°	1803.3	1798.4	1740.1	1654.0	1557.7	1477.0	1459.0	1515.0	1652.8	1703.4	1902.0
17.5°	2106.7	2100.0	2023.0	1897.8	1740.8	1583.6	1499.3	1520.4	1657.1	1710.6	1938.7
20°	2413.0	2392.6	2309.5	2160.3	1958.6	1728.7	1566.1	1534.2	1662.5	1718.5	1977.3
22.5°	2641.8	2624.9	2550.2	2405.2	2172.8	1896.6	1655.9	1558.4	1679.9	1741.3	2024.8
25°	2842.8	2844.0	2769.9	2629.7	2389.5	2074.7	1771.4	1622.7	1724.5	1788.2	2089.8
27.5°	3091.4	3076.9	3007.7	2868.7	2603.8	2254.7	1911.1	1711.2	1790.7	1855.0	2175.3
30°	3388.7	3378.5	3298.4	3140.8	2841.6	2447.9	2070.6	1814.1	1876.1	1943.0	2287.2
32.5°	3738.4	3733.6	3650.5	3447.8	3116.0	2675.4	2257.8	1950.2	2003.8	2072.9	2447.9
35°	4148.9	4149.5	4051.4	3807.6	3416.5	2940.3	2470.2	2125.3	2159.0	2231.3	2639.3
37.5°	4401.8	4432.4	4395.7	4147.1	3756.5	3236.4	2745.9	2357.7	2336.0	2408.8	2844.6
40°	4455.9	4493.2	4609.4	4483.0	4136.9	3562.6	2990.3	2581.0	2553.9	2643.0	3108.8
42.5°	4380.1	4431.8	4677.3	4766.4	4540.8	3964.8	3318.9	2912.6	2878.3	2998.1	3437.4
45°	4335.0	4373.4	4657.5	4913.9	4891.0	4419.1	3737.2	3329.1	3316.5	3473.6	3816.6
47.5°	4256.7	4291.6	4564.8	4948.2	5097.0	4835.7	4239.8	3838.3	3863.0	4068.9	4244.6
50°	4298.7	4313.3	4461.3	4861.0	5156.5	5140.8	4801.4	4428.3	4512.4	4769.5	4729.2
52.5°	4292.8	4330.0	4449.2	4717.7	5164.4	5329.3	5354.5	5086.1	5263.7	5558.6	5266.7
55°	3470.6	3539.2	4307.9	4681.6	5192.0	5514.0	5846.9	5779.5	6110.5	6454.2	5873.4
57.5°	3314.1	3357.4	3783.6	4757.4	5338.9	5866.7	6394.7	6542.7	7096.4	7495.5	6612.6
60°	3283.4	3337.0	3778.2	4850.1	5636.9	6441.5	7206.6	7466.6	8296.0	8733.0	7469.6
62.5°	3187.7	3245.4	3742.7	4838.1	6060.0	7236.7	8246.1	8449.0	9433.7	9858.6	8186.5
65°	2884.3	2938.5	3453.1	4643.7	6345.3	8085.4	9476.4	9349.4	10331.7	10651.3	8544.0
66°	2676.7	2729.6	3225.0	4415.0	6279.1	8326.1	9912.2	9628.0	10532.7	10783.1	8474.2
67.5°	2296.8	2338.4	2782.0	3902.8	5927.0	8393.5	10278.7	9837.5	10553.8	10642.3	8075.2
70°	1451.2	1463.2	1808.2	2694.1	4486.6	7279.4	9720.7	9317.4	9683.5	9443.9	6769.6
72.5°	629.6	625.3	868.0	1370.5	2540.0	4884.5	7863.2	7688.1	7596.0	7049.5	4738.8
75°	350.3	355.2	450.8	636.2	1032.3	2399.2	5143.9	4922.3	4156.1	3546.4	2148.8
77.5°	281.1	287.8	373.8	451.4	463.5	836.7	2407.0	1958.6	1179.2	946.2	597.1
80°	222.1	234.2	326.2	351.5	312.4	344.9	777.6	621.7	466.5	428.0	309.3
82.5°	175.7	184.2	279.9	266.1	218.5	232.3	372.6	362.9	303.4	276.3	178.8
85°	126.4	142.1	230.0	200.4	143.2	156.5	247.3	237.1	173.9	142.1	78.9
87.5°	51.8	67.4	162.5	133.0	80.1	72.8	123.4	116.2	82.4	60.1	39.1
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°	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3	1815.3
2.5°	1813.5	1828.0	1846.6	1858.1	1864.1	1868.3	1875.0	1874.4	1876.1	1876.7	1879.2
5°	1825.6	1849.7	1876.7	1884.0	1884.0	1877.3	1870.7	1859.9	1855.6	1854.5	1855.6
7.5°	1856.9	1883.4	1906.8	1898.4	1880.4	1853.9	1819.5	1789.4	1773.2	1767.8	1766.6
10°	1896.6	1928.5	1938.1	1906.3	1853.3	1789.4	1721.4	1672.1	1643.8	1636.0	1633.6
12.5°	1944.7	1974.8	1961.6	1894.2	1796.1	1693.2	1599.3	1520.4	1461.4	1442.8	1441.5
15°	1997.7	2021.1	1974.8	1856.9	1710.6	1559.0	1391.6	1255.6	1182.1	1158.7	1156.9
17.5°	2047.0	2059.1	1967.0	1791.9	1584.9	1339.2	1117.2	1012.4	987.1	993.2	994.3
20°	2089.2	2089.2	1940.5	1698.6	1386.8	1049.8	909.5	907.7	925.8	943.8	947.4
22.5°	2135.5	2107.9	1894.2	1566.8	1106.3	858.9	838.4	855.3	875.7	895.6	898.7
25°	2192.7	2122.9	1829.8	1367.0	869.7	780.1	787.9	801.7	812.0	824.6	826.4
27.5°	2256.5	2142.2	1744.9	1091.9	754.8	730.7	736.7	741.5	740.3	745.1	746.3
30°	2332.9	2164.5	1628.7	853.4	707.3	688.5	677.7	673.5	673.5	681.4	684.4
32.5°	2435.3	2197.5	1462.0	731.3	684.4	658.5	623.6	607.9	614.0	640.5	646.4
35°	2547.9	2233.1	1236.3	689.8	679.5	644.7	590.4	561.6	562.2	586.9	594.6
37.5°	2670.6	2278.2	988.9	682.0	690.4	645.3	573.1	533.3	517.0	517.0	520.1
40°	2827.7	2324.6	800.6	687.4	713.3	652.4	564.0	511.1	465.2	466.5	468.9
42.5°	3032.4	2364.2	699.4	698.8	740.9	662.1	563.3	481.5	441.8	468.9	493.6
45°	3259.9	2384.1	654.9	709.0	763.2	668.1	553.7	476.7	444.8	525.5	572.4
47.5°	3521.7	2372.7	630.2	712.7	768.6	668.1	542.9	488.2	465.9	608.6	663.3
50°	3808.9	2339.6	606.1	705.4	766.8	666.9	553.1	499.6	473.7	623.0	660.9
52.5°	4146.5	2311.9	580.8	689.8	754.2	660.3	565.2	494.8	449.0	566.4	592.9
55°	4531.8	2319.7	552.6	667.5	734.3	647.6	561.0	475.5	423.1	499.0	515.3
57.5°	5024.1	2413.0	518.8	639.2	707.3	626.6	545.9	466.5	415.3	452.7	462.3
60°	5573.6	2575.6	476.7	610.9	673.5	592.9	534.5	470.7	418.9	449.0	453.9
62.5°	5976.9	2670.0	440.6	569.4	627.8	555.6	520.1	476.1	428.5	461.7	460.4
65°	6086.5	2514.7	395.5	508.6	565.8	516.4	502.0	482.1	432.8	471.9	466.5
66°	5932.9	2347.5	375.6	480.3	534.5	497.2	493.0	481.5	431.0	473.1	464.1
67.5°	5560.4	2004.4	341.3	438.7	484.6	468.3	478.5	476.1	426.2	471.9	459.2
70°	4534.7	1367.5	292.0	365.4	403.2	412.4	450.8	456.8	410.5	450.8	423.1
72.5°	3168.4	833.0	258.2	283.5	326.2	351.5	412.9	430.4	389.4	393.6	367.1
75°	1531.3	442.4	234.2	219.7	253.4	293.7	367.1	394.2	356.3	329.3	319.6
77.5°	477.3	270.3	198.7	177.0	198.7	237.1	307.0	345.5	317.2	275.7	272.1
80°	256.5	198.7	152.9	142.1	157.1	186.0	241.3	288.3	272.6	247.3	220.9
82.5°	169.1	128.8	113.1	110.2	119.8	142.1	179.3	239.0	239.0	211.9	154.1
85°	87.3	78.9	77.6	77.6	83.7	94.5	122.1	184.2	196.2	111.9	92.7
87.5°	43.4	45.1	42.1	44.0	47.0	46.3	58.4	92.7	110.8	68.0	56.6
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)