

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: P194101

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194101  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 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: 11896 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

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

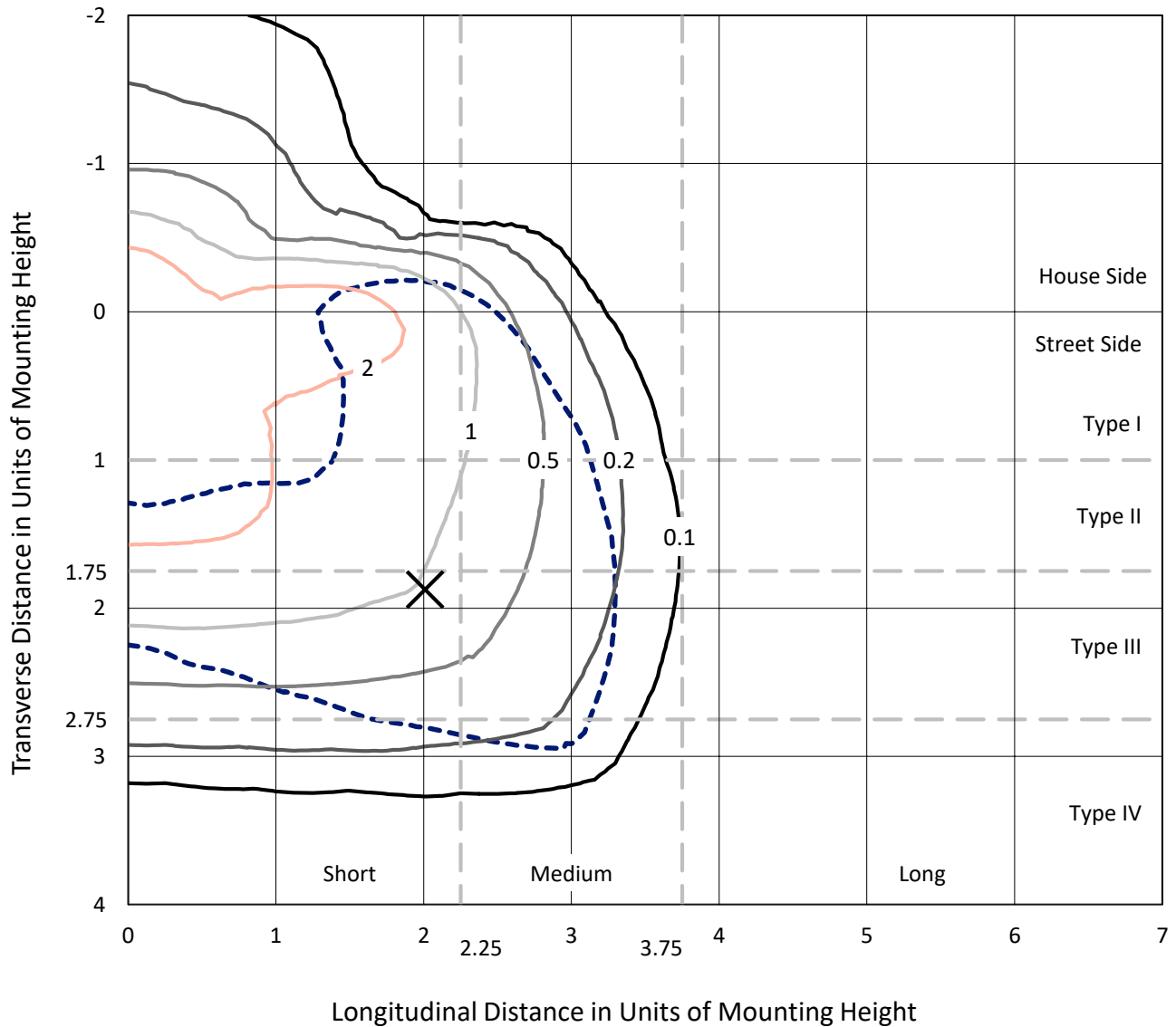


REPORT NUMBER: P194101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

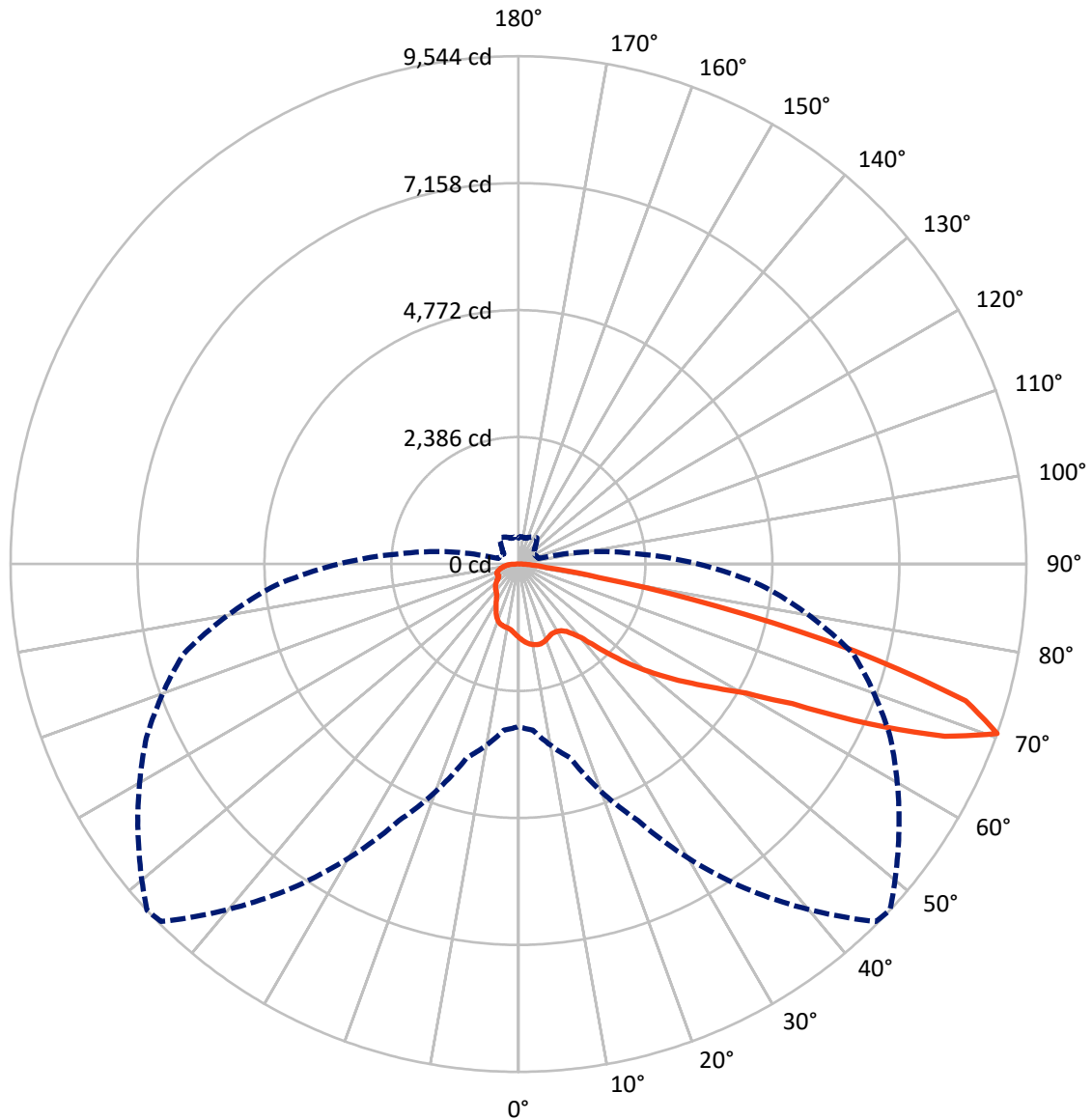


Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P194101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P194101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2481.8	0.0	2481.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	9414.3	0.0	9414.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	11896.0	0.0	11896.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	1.1
10°-20°	388.0	3.3
20°-30°	573.0	4.8
30°-40°	832.8	7.0
40°-50°	1498.8	12.6
50°-60°	2596.5	21.8
60°-70°	3705.9	31.2
70°-80°	1902.4	16.0
80°-90°	266.3	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°	11896.0	100.0
0°-180°	11896.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P194101

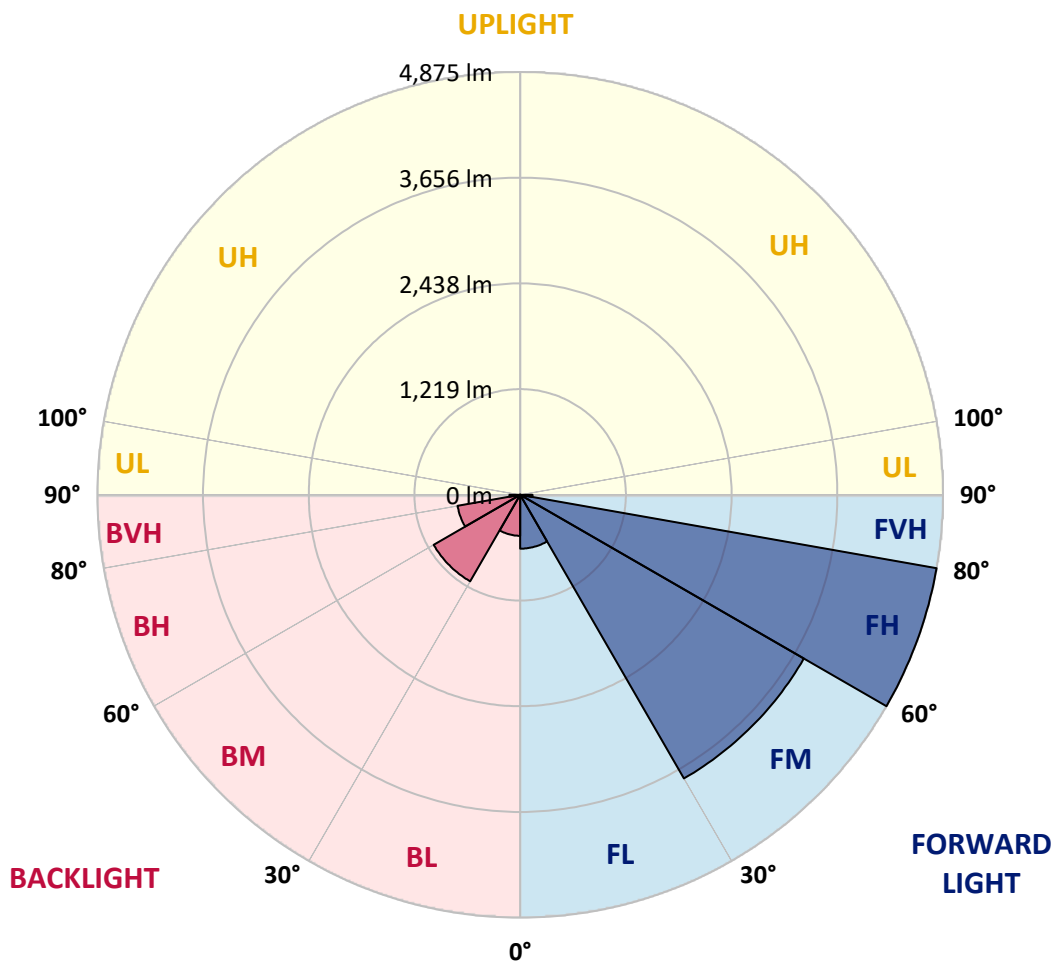
CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.7	5.2			
FM (30°-60°)	3776.1	31.7			
FH (60°-80°)	4875.3	41.0			G2/5000
FVH (80°-90°)	142.1	1.2			G2/225
BL (0°-30°)	472.5	4.0	B1/500		
BM (30°-60°)	1152.0	9.7	B2/2500		
BH (60°-80°)	733.0	6.2	B2/1000		G2/1000
BVH (80°-90°)	124.2	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-G2**

Type IV Short





REPORT NUMBER: P194101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1461.3	1458.4	1457.3	1455.0	1452.1	1437.6	1434.7	1424.3	1409.8	1394.8	1379.1
5°	1557.4	1556.8	1550.5	1538.9	1520.4	1488.5	1481.0	1455.5	1421.4	1388.4	1355.4
7.5°	1641.9	1636.7	1624.5	1601.4	1569.0	1525.6	1515.2	1479.9	1433.0	1387.8	1343.3
10°	1703.8	1700.9	1674.3	1642.5	1600.2	1552.2	1540.0	1500.7	1449.2	1391.9	1336.3
12.5°	1739.1	1733.3	1702.7	1664.5	1614.1	1567.2	1555.1	1515.2	1457.3	1391.9	1326.5
15°	1736.8	1732.8	1702.1	1660.4	1609.5	1568.4	1557.4	1517.5	1455.5	1386.1	1313.8
17.5°	1690.5	1692.2	1666.2	1625.1	1583.4	1552.2	1542.4	1505.3	1444.0	1374.5	1298.7
20°	1609.5	1617.6	1600.2	1563.8	1540.6	1519.2	1512.8	1481.6	1426.0	1357.7	1282.5
22.5°	1528.5	1536.0	1529.0	1498.4	1494.9	1482.2	1478.7	1456.1	1410.4	1347.3	1272.7
25°	1468.9	1475.8	1474.6	1448.0	1458.4	1457.9	1455.0	1444.0	1406.9	1347.3	1274.4
27.5°	1452.6	1455.0	1452.6	1428.3	1442.8	1454.4	1452.1	1450.3	1417.3	1364.1	1296.4
30°	1508.2	1504.7	1486.8	1437.6	1450.9	1467.1	1464.8	1466.0	1448.6	1408.1	1345.6
32.5°	1729.9	1714.2	1657.5	1519.2	1483.9	1492.6	1493.7	1512.8	1515.7	1475.8	1422.0
35°	2061.5	2044.1	1970.6	1738.0	1586.3	1556.2	1556.2	1585.2	1602.5	1573.0	1540.6
37.5°	2412.8	2393.7	2354.3	2041.2	1801.6	1666.8	1663.9	1684.1	1709.0	1716.0	1724.1
40°	2812.1	2791.9	2802.9	2381.5	2102.0	1858.3	1817.3	1802.8	1869.9	1914.5	1979.3
42.5°	3249.1	3239.8	3243.9	2760.6	2444.0	2144.8	2086.4	2011.7	2092.7	2172.0	2308.0
45°	3653.6	3661.7	3657.7	3166.3	2824.9	2494.4	2432.5	2287.8	2367.1	2503.1	2724.7
47.5°	4007.8	3974.2	4026.3	3609.6	3251.4	2885.6	2809.2	2615.3	2695.8	2863.6	3238.7
50°	4437.8	4433.2	4356.8	4201.1	3767.0	3278.6	3178.5	2953.9	3078.9	3312.2	3886.3
52.5°	4889.8	4805.9	4735.9	4661.2	4314.0	3681.4	3558.7	3291.3	3529.2	3822.6	4675.7
55°	4982.4	4944.8	5031.6	5157.2	4841.2	4099.8	3956.9	3714.4	4036.2	4406.0	5586.0
57.5°	5180.3	5179.8	5359.2	5583.2	5384.1	4543.7	4399.6	4225.4	4606.2	5074.4	6552.5
60°	5314.0	5351.7	5685.0	6119.6	5917.1	5056.5	4924.0	4815.2	5254.4	5821.6	7453.1
62.5°	5384.1	5435.0	5889.9	6337.3	6670.6	5910.1	5777.6	5620.8	6112.1	6641.1	7979.7
65°	5093.0	5193.1	5858.1	6525.3	7330.4	7293.9	7234.3	6958.8	7184.5	7288.7	7789.3
67.5°	4287.3	4389.8	5164.1	6350.0	7801.5	8628.5	8641.2	8170.7	7844.3	7344.3	6549.1
70°	3054.6	3135.1	3775.7	5323.9	7442.7	9500.7	9544.1	8729.2	7712.9	6513.2	4575.6
72.5°	1450.3	1499.5	2106.1	3464.9	5906.1	8704.9	8788.8	8016.2	6558.3	4822.1	2496.1
75°	533.0	548.1	711.9	1474.1	3425.6	6419.4	6518.4	5746.4	4347.5	2400.6	950.9
77.5°	319.5	329.3	399.3	622.2	1347.3	3669.2	3815.7	3125.2	1900.0	893.6	467.6
80°	223.4	230.3	286.5	387.2	636.6	1398.2	1528.5	1275.6	757.0	565.4	340.3
82.5°	151.1	154.5	201.4	261.6	423.1	499.5	538.8	567.2	510.5	420.7	215.9
85°	99.0	102.4	136.6	172.5	269.1	258.1	263.9	333.9	372.7	285.9	119.8
87.5°	56.7	59.0	82.2	92.0	132.0	109.4	110.5	175.9	238.4	192.7	72.9
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: P194101

CATALOG NUMBER: GLEON-AF-03-LED-E1-T4W-8030-800

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3	1380.3
2.5°	1375.1	1367.6	1350.8	1340.4	1330.5	1328.2	1324.2	1323.6	1323.0	1323.0	1321.3
5°	1344.4	1331.7	1305.6	1291.2	1279.0	1277.9	1277.3	1280.2	1281.3	1282.5	1280.8
7.5°	1324.7	1307.4	1275.0	1254.1	1239.7	1236.2	1242.0	1255.3	1264.0	1267.5	1265.7
10°	1312.6	1291.2	1253.6	1231.0	1218.8	1217.1	1224.6	1240.3	1258.2	1265.1	1264.6
12.5°	1298.7	1274.4	1234.5	1210.7	1203.8	1207.3	1217.1	1231.6	1250.1	1261.1	1261.7
15°	1284.8	1256.5	1215.4	1194.5	1191.6	1196.3	1205.5	1216.5	1231.0	1242.0	1243.1
17.5°	1268.0	1238.5	1197.4	1176.0	1173.7	1176.0	1176.6	1182.4	1191.6	1202.1	1204.9
20°	1250.1	1220.0	1177.2	1155.8	1145.3	1136.1	1125.7	1126.8	1129.7	1140.1	1142.4
22.5°	1237.4	1207.3	1161.5	1132.0	1104.2	1076.5	1055.6	1052.7	1053.9	1062.6	1065.5
25°	1238.5	1206.7	1157.5	1106.6	1045.8	1001.2	973.4	968.8	968.2	974.6	978.7
27.5°	1261.1	1229.3	1172.5	1080.5	982.1	916.2	886.6	883.2	878.5	880.3	884.9
30°	1311.4	1281.9	1209.0	1053.9	913.3	832.8	802.1	798.7	792.3	789.4	792.9
32.5°	1393.6	1369.3	1262.2	1028.4	844.4	761.6	730.4	722.9	718.8	715.3	718.2
35°	1530.2	1519.8	1333.4	1000.6	783.6	706.6	678.3	666.7	660.9	667.3	671.9
37.5°	1744.3	1750.1	1426.6	957.2	736.7	670.2	646.5	633.1	624.5	629.7	634.9
40°	2047.6	2051.7	1529.6	895.9	696.2	648.8	623.3	611.2	599.0	589.7	589.2
42.5°	2445.8	2404.7	1630.9	829.3	649.4	635.5	607.1	592.1	573.5	548.1	542.9
45°	2918.0	2773.9	1707.9	752.9	596.7	619.3	589.2	568.3	539.4	511.6	508.7
47.5°	3462.1	3170.4	1745.5	673.7	547.5	595.5	567.2	534.2	497.7	483.8	482.1
50°	4126.5	3640.9	1763.4	596.7	504.7	564.3	535.3	496.6	465.9	463.0	461.3
52.5°	4882.9	4206.9	1769.2	533.6	469.4	523.8	509.3	471.7	447.4	449.7	449.7
55°	5674.6	4791.4	1690.5	487.9	437.0	482.1	491.9	461.8	441.6	450.8	454.3
57.5°	6401.5	5309.4	1442.8	452.6	406.3	450.3	485.6	471.1	457.2	494.8	497.1
60°	6959.4	5615.6	1077.6	420.7	383.7	439.3	502.4	506.4	509.9	599.6	611.7
62.5°	7076.3	5513.7	740.8	395.9	373.3	448.5	533.0	533.6	529.6	592.1	599.6
65°	6539.8	4869.6	538.8	382.0	364.6	465.3	559.1	546.9	520.3	567.7	553.9
67.5°	5193.7	3668.7	448.5	371.6	351.9	464.2	586.8	559.1	515.1	556.2	533.6
70°	3371.2	2218.3	399.3	362.9	336.8	442.2	603.1	557.9	500.0	517.4	490.8
72.5°	1644.8	992.0	366.3	350.1	321.2	411.5	602.5	547.5	484.4	483.3	468.8
75°	643.6	454.3	336.3	331.0	294.6	376.8	586.3	532.4	465.9	447.4	442.2
77.5°	376.8	324.1	298.1	302.7	262.8	342.0	562.5	506.4	440.4	418.4	412.6
80°	274.3	242.5	254.1	261.6	224.6	307.3	530.7	474.6	412.1	423.1	415.0
82.5°	175.9	156.3	206.0	213.6	186.9	272.0	496.0	441.0	372.1	338.0	329.9
85°	89.7	99.0	153.4	162.6	144.1	223.4	453.7	396.4	327.0	281.3	285.9
87.5°	50.4	67.7	97.8	109.4	101.9	171.9	368.1	327.0	266.8	217.0	191.0
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)