

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: P194092

Luminaire Tested: **GLEON-AF-04-LED-E1-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194092
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-04-LED-E1-T4W-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12819 lumens
Efficiency: N/A
Efficacy: 99.4 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): 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

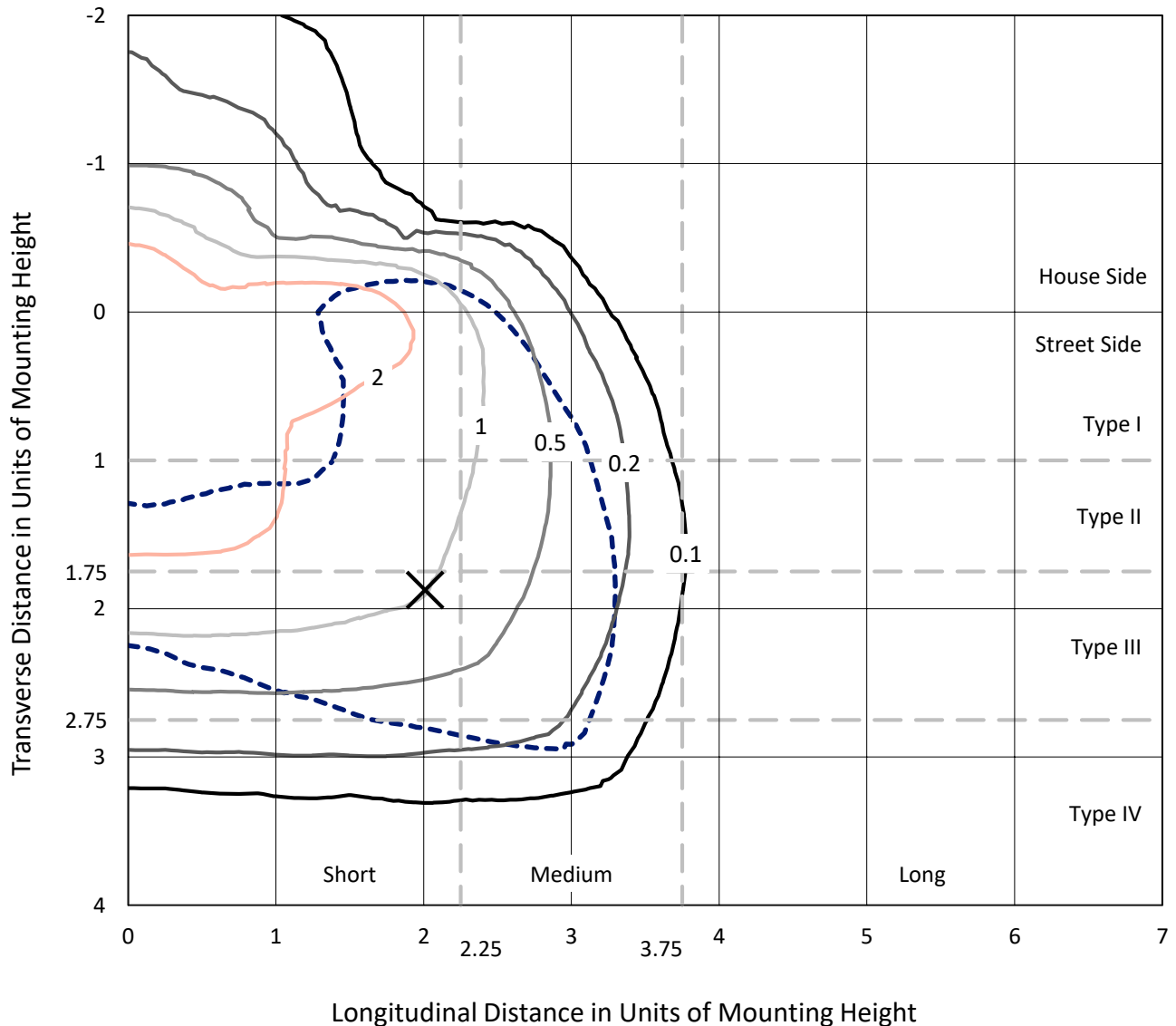


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

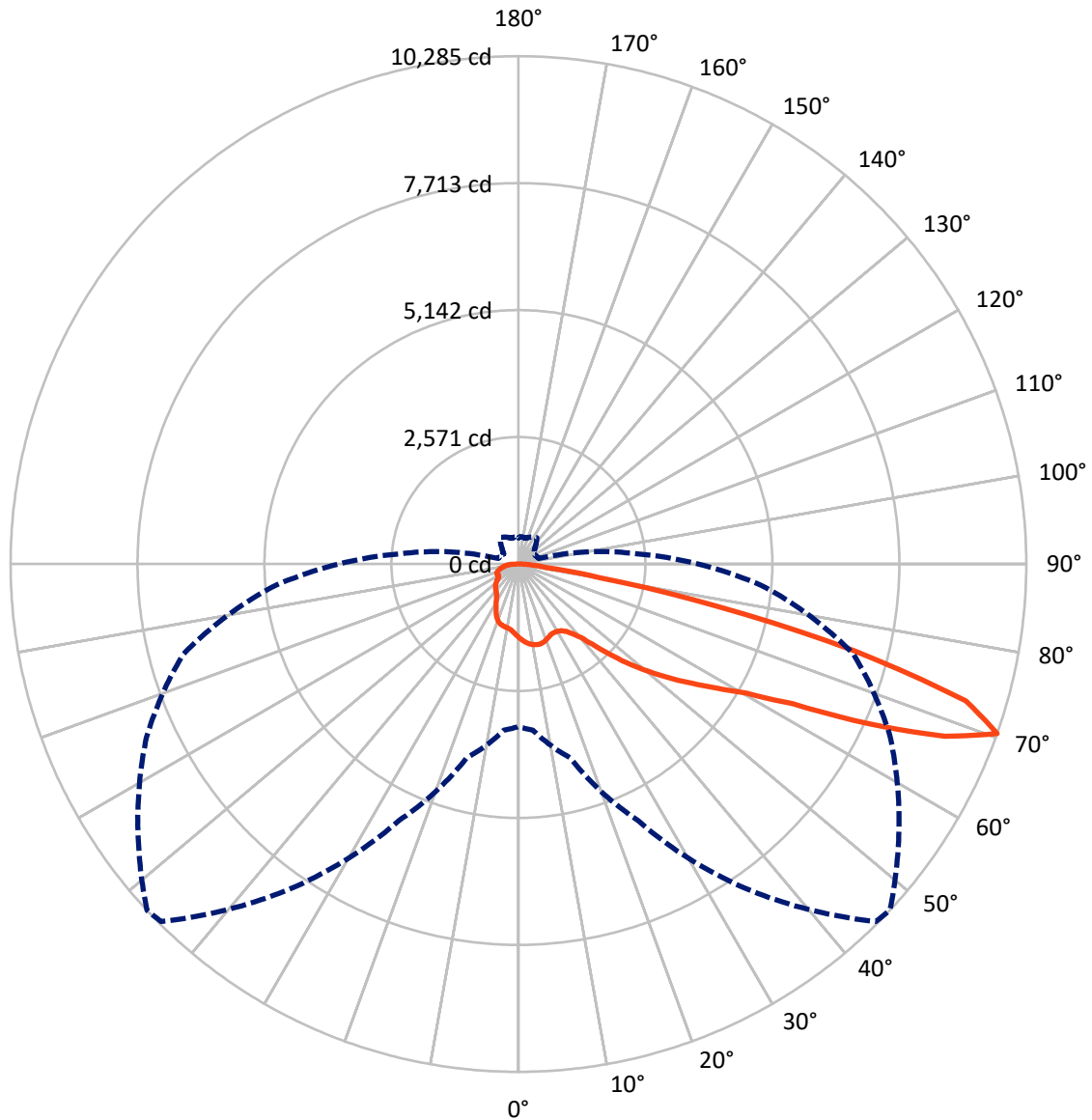


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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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	2674.3	0.0	2674.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10144.7	0.0	10144.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	12819.0	0.0	12819.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.1
10°-20°	418.1	3.3
20°-30°	617.4	4.8
30°-40°	897.4	7.0
40°-50°	1615.1	12.6
50°-60°	2797.9	21.8
60°-70°	3993.5	31.2
70°-80°	2050.0	16.0
80°-90°	287.0	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°	12819.0	100.0
0°-180°	12819.0	100.0



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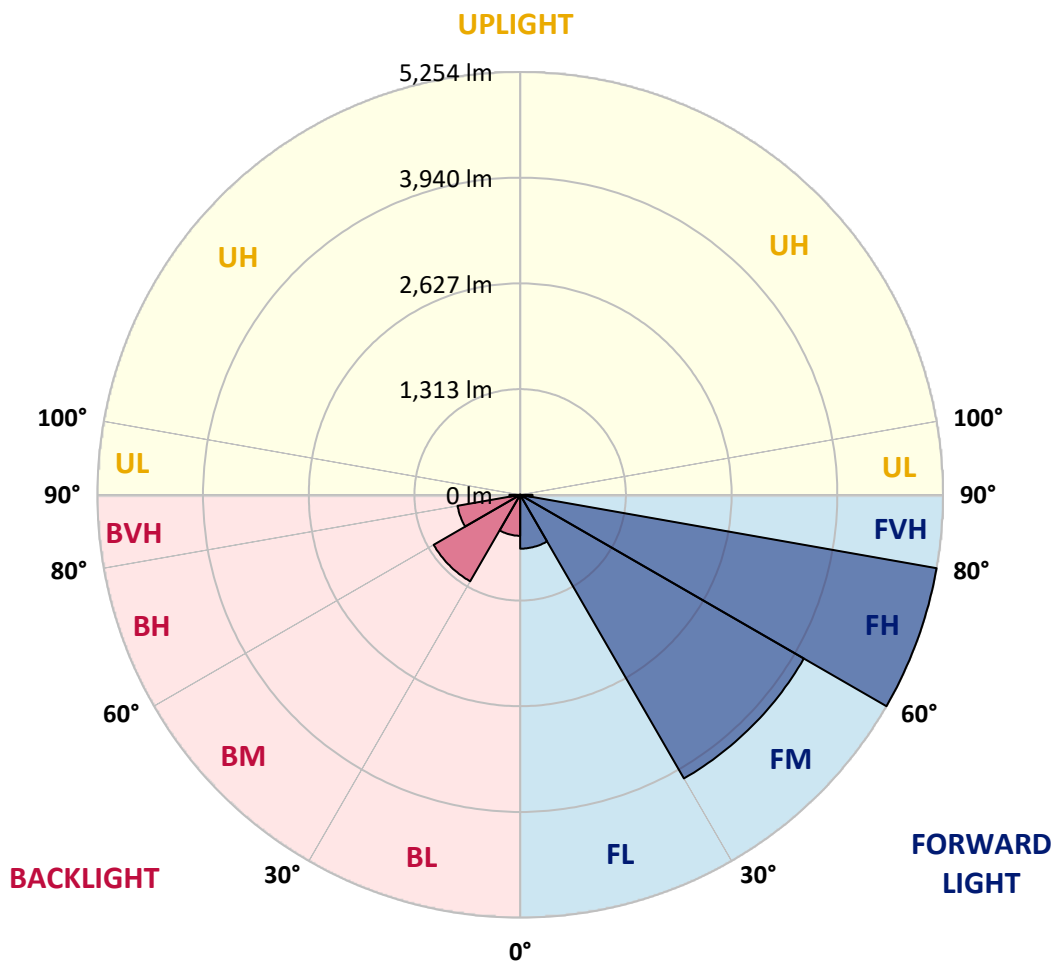
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.9	5.2			
FM	(30°-60°)	4069.1	31.7			
FH	(60°-80°)	5253.6	41.0			G3/7500
FVH	(80°-90°)	153.2	1.2			G2/225
BL	(0°-30°)	509.2	4.0	B2/1000		
BM	(30°-60°)	1241.3	9.7	B2/2500		
BH	(60°-80°)	789.9	6.2	B2/1000		G2/1000
BVH	(80°-90°)	133.9	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°	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4
2.5°	1574.7	1571.6	1570.3	1567.9	1564.7	1549.1	1546.0	1534.8	1519.2	1503.0	1486.2
5°	1678.2	1677.6	1670.8	1658.3	1638.3	1604.0	1595.9	1568.5	1531.7	1496.1	1460.6
7.5°	1769.3	1763.7	1750.6	1725.6	1690.7	1643.9	1632.7	1594.7	1544.2	1495.5	1447.5
10°	1836.0	1832.9	1804.2	1769.9	1724.4	1672.6	1659.5	1617.1	1561.6	1499.9	1440.0
12.5°	1874.1	1867.8	1834.8	1793.6	1739.4	1688.8	1675.7	1632.7	1570.3	1499.9	1429.4
15°	1871.6	1867.2	1834.2	1789.2	1734.4	1690.1	1678.2	1635.2	1568.5	1493.6	1415.7
17.5°	1821.7	1823.5	1795.5	1751.2	1706.3	1672.6	1662.0	1622.1	1556.0	1481.2	1399.5
20°	1734.4	1743.1	1724.4	1685.1	1660.2	1637.1	1630.2	1596.5	1536.7	1463.1	1382.0
22.5°	1647.1	1655.2	1647.7	1614.6	1610.9	1597.2	1593.4	1569.1	1519.8	1451.9	1371.4
25°	1582.8	1590.3	1589.1	1560.4	1571.6	1571.0	1567.9	1556.0	1516.1	1451.9	1373.3
27.5°	1565.4	1567.9	1565.4	1539.2	1554.8	1567.2	1564.7	1562.9	1527.3	1469.9	1397.0
30°	1625.2	1621.5	1602.2	1549.1	1563.5	1581.0	1578.5	1579.7	1561.0	1517.3	1450.0
32.5°	1864.1	1847.2	1786.1	1637.1	1599.0	1608.4	1609.6	1630.2	1633.3	1590.3	1532.3
35°	2221.4	2202.7	2123.5	1872.8	1709.4	1677.0	1677.0	1708.2	1726.9	1695.1	1660.2
37.5°	2600.0	2579.4	2537.0	2199.6	1941.4	1796.1	1793.0	1814.8	1841.6	1849.1	1857.9
40°	3030.3	3008.5	3020.3	2566.3	2265.1	2002.5	1958.3	1942.7	2015.0	2063.0	2132.9
42.5°	3501.2	3491.2	3495.6	2974.8	2633.7	2311.2	2248.3	2167.8	2255.1	2340.6	2487.1
45°	3937.1	3945.8	3941.5	3412.0	3044.0	2687.9	2621.2	2465.3	2550.7	2697.3	2936.1
47.5°	4318.8	4282.6	4338.7	3889.7	3503.7	3109.5	3027.2	2818.3	2905.0	3085.8	3489.9
50°	4782.1	4777.2	4694.8	4527.1	4059.3	3533.0	3425.1	3183.1	3317.8	3569.1	4187.8
52.5°	5269.2	5178.8	5103.3	5022.9	4648.7	3967.0	3834.8	3546.7	3803.0	4119.2	5038.5
55°	5369.0	5328.5	5422.0	5557.3	5216.8	4417.9	4263.9	4002.6	4349.3	4747.8	6019.5
57.5°	5582.3	5581.7	5775.0	6016.3	5801.8	4896.3	4741.0	4553.3	4963.6	5468.2	7061.0
60°	5726.3	5766.9	6126.1	6594.5	6376.2	5448.8	5306.0	5188.8	5662.1	6273.3	8031.4
62.5°	5801.8	5856.7	6346.9	6829.0	7188.2	6368.7	6225.9	6056.9	6586.4	7156.4	8598.9
65°	5488.1	5596.0	6312.6	7031.6	7899.1	7859.8	7795.6	7498.8	7742.0	7854.2	8393.7
67.5°	4620.0	4730.4	5564.8	6842.7	8406.8	9298.0	9311.7	8804.7	8452.9	7914.1	7057.2
70°	3291.6	3378.3	4068.7	5736.9	8020.1	10237.8	10284.6	9406.5	8311.4	7018.5	4930.6
72.5°	1562.9	1615.9	2269.5	3733.8	6364.3	9380.3	9470.7	8638.2	7067.2	5196.2	2689.8
75°	574.4	590.6	767.1	1588.4	3691.4	6917.5	7024.2	6192.2	4684.9	2586.9	1024.7
77.5°	344.3	354.9	430.3	670.4	1451.9	3953.9	4111.7	3367.7	2047.4	962.9	503.9
80°	240.7	248.2	308.7	417.2	686.0	1506.7	1647.1	1374.5	815.7	609.3	366.7
82.5°	162.8	166.5	217.0	281.9	455.9	538.2	580.6	611.2	550.1	453.4	232.6
85°	106.6	110.4	147.2	185.8	290.0	278.1	284.4	359.8	401.6	308.1	129.1
87.5°	61.1	63.6	88.6	99.2	142.2	117.9	119.1	189.6	256.9	207.7	78.6
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°	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4
2.5°	1481.8	1473.7	1455.6	1444.4	1433.8	1431.3	1426.9	1426.3	1425.7	1425.7	1423.8
5°	1448.7	1435.0	1407.0	1391.4	1378.3	1377.0	1376.4	1379.5	1380.8	1382.0	1380.1
7.5°	1427.5	1408.8	1373.9	1351.4	1335.9	1332.1	1338.4	1352.7	1362.0	1365.8	1363.9
10°	1414.4	1391.4	1350.8	1326.5	1313.4	1311.5	1319.6	1336.5	1355.8	1363.3	1362.7
12.5°	1399.5	1373.3	1330.2	1304.7	1297.2	1300.9	1311.5	1327.1	1347.1	1358.9	1359.6
15°	1384.5	1353.9	1309.7	1287.2	1284.1	1289.1	1299.1	1310.9	1326.5	1338.4	1339.6
17.5°	1366.4	1334.6	1290.3	1267.3	1264.8	1267.3	1267.9	1274.1	1284.1	1295.3	1298.4
20°	1347.1	1314.7	1268.5	1245.4	1234.2	1224.2	1213.0	1214.2	1217.4	1228.6	1231.1
22.5°	1333.4	1300.9	1251.7	1219.9	1189.9	1160.0	1137.5	1134.4	1135.7	1145.0	1148.1
25°	1334.6	1300.3	1247.3	1192.4	1126.9	1078.9	1049.0	1044.0	1043.4	1050.2	1054.6
27.5°	1358.9	1324.6	1263.5	1164.4	1058.3	987.2	955.4	951.7	946.7	948.6	953.6
30°	1413.2	1381.4	1302.8	1135.7	984.1	897.4	864.4	860.6	853.8	850.7	854.4
32.5°	1501.7	1475.6	1360.2	1108.2	909.9	820.7	787.0	778.9	774.6	770.8	773.9
35°	1648.9	1637.7	1436.9	1078.3	844.4	761.5	730.9	718.4	712.2	719.1	724.1
37.5°	1879.7	1885.9	1537.3	1031.5	793.9	722.2	696.6	682.3	672.9	678.5	684.1
40°	2206.5	2210.8	1648.3	965.4	750.2	699.1	671.7	658.6	645.5	635.5	634.9
42.5°	2635.5	2591.3	1757.4	893.7	699.7	684.8	654.2	638.0	618.0	590.6	585.0
45°	3144.4	2989.2	1840.4	811.4	643.0	667.3	634.9	612.4	581.2	551.3	548.2
47.5°	3730.7	3416.3	1880.9	725.9	590.0	641.7	611.2	575.6	536.3	521.4	519.5
50°	4446.6	3923.4	1900.3	643.0	543.8	608.1	576.9	535.1	502.0	498.9	497.0
52.5°	5261.7	4533.3	1906.5	575.0	505.8	564.4	548.8	508.3	482.1	484.6	484.6
55°	6114.9	5163.2	1821.7	525.7	470.9	519.5	530.1	497.7	475.8	485.8	489.6
57.5°	6898.2	5721.4	1554.8	487.7	437.8	485.2	523.2	507.7	492.7	533.2	535.7
60°	7499.4	6051.3	1161.2	453.4	413.5	473.3	541.3	545.7	549.4	646.1	659.2
62.5°	7625.4	5941.5	798.3	426.6	402.3	483.3	574.4	575.0	570.6	638.0	646.1
65°	7047.2	5247.4	580.6	411.6	392.9	501.4	602.4	589.3	560.7	611.8	596.8
67.5°	5596.6	3953.3	483.3	400.4	379.2	500.2	632.4	602.4	555.0	599.3	575.0
70°	3632.8	2390.4	430.3	391.0	363.0	476.5	649.8	601.2	538.8	557.5	528.9
72.5°	1772.4	1068.9	394.8	377.3	346.1	443.4	649.2	590.0	522.0	520.7	505.2
75°	693.5	489.6	362.3	356.7	317.4	406.0	631.8	573.8	502.0	482.1	476.5
77.5°	406.0	349.2	321.2	326.2	283.1	368.6	606.2	545.7	474.6	450.9	444.7
80°	295.6	261.3	273.8	281.9	242.0	331.2	571.9	511.4	444.0	455.9	447.2
82.5°	189.6	168.4	222.0	230.1	201.4	293.1	534.5	475.2	401.0	364.2	355.5
85°	96.7	106.6	165.3	175.2	155.3	240.7	488.9	427.2	352.4	303.1	308.1
87.5°	54.3	73.0	105.4	117.9	109.8	185.2	396.6	352.4	287.5	233.9	205.8
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)