

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: P269199

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269199
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 12666 lumens
Efficiency: N/A
Efficacy: 102.1 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

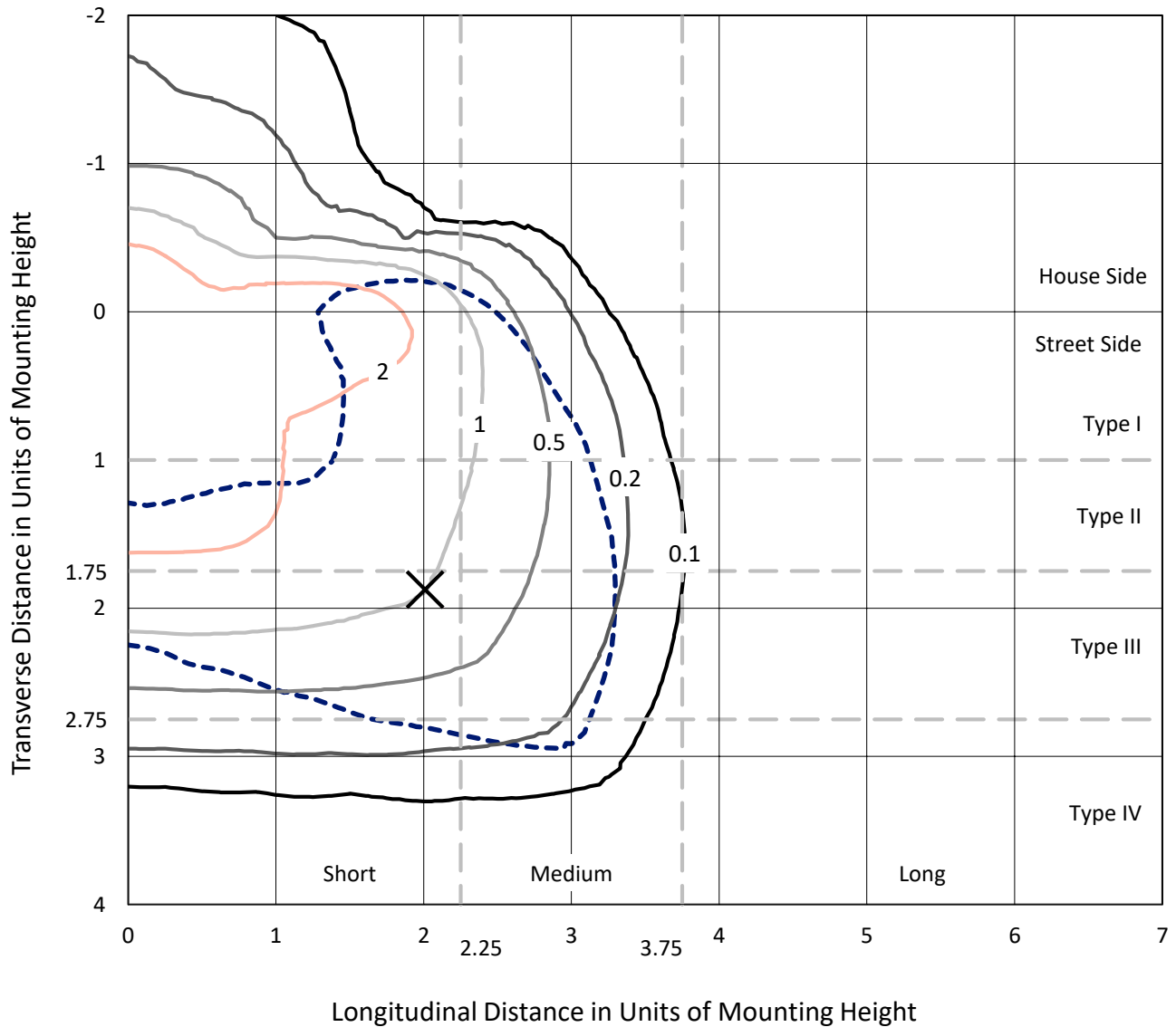


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

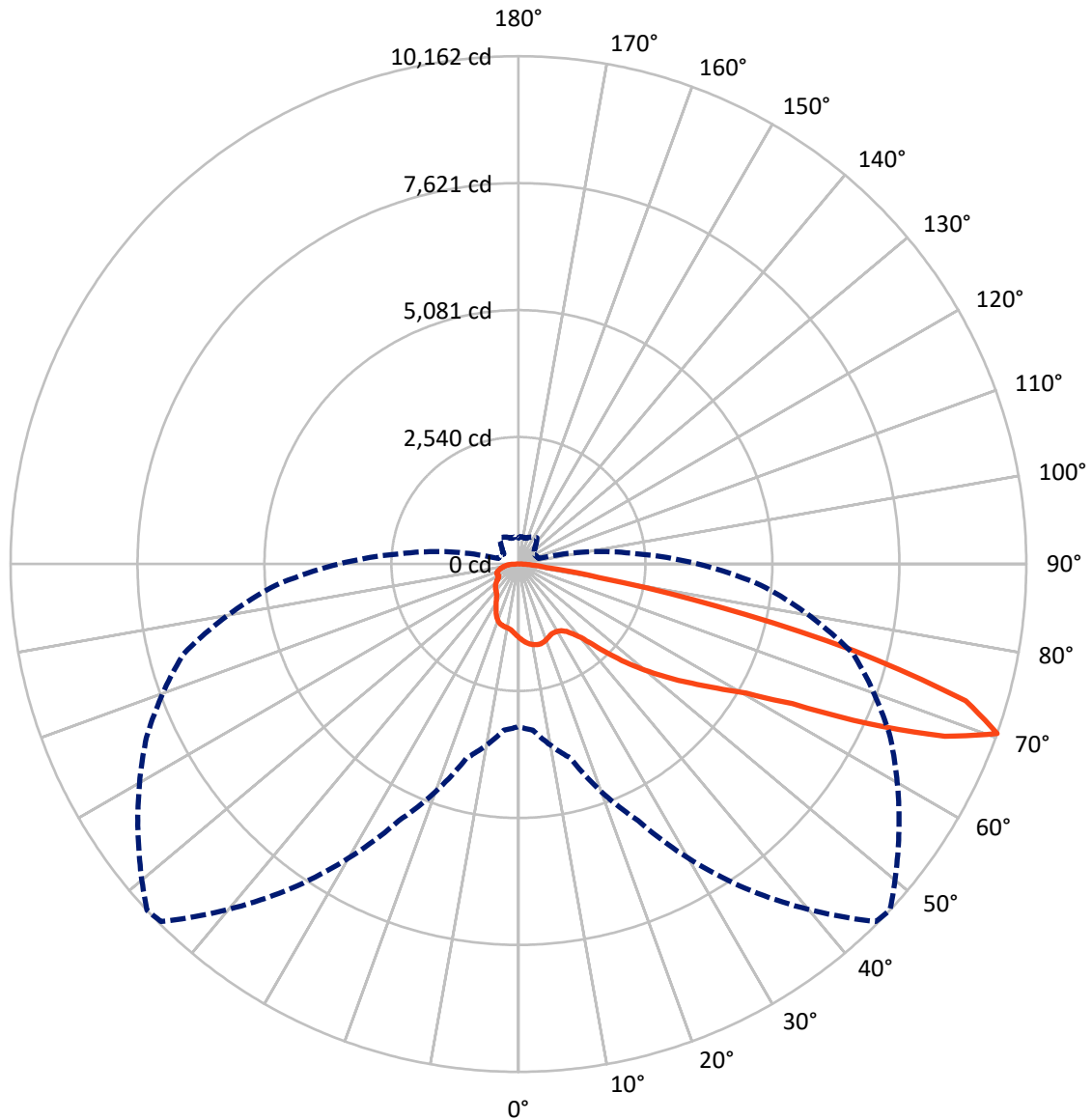


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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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	2642.4	0.0	2642.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10023.6	0.0	10023.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	12666.0	0.0	12666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.1
10°-20°	413.1	3.3
20°-30°	610.1	4.8
30°-40°	886.7	7.0
40°-50°	1595.8	12.6
50°-60°	2764.5	21.8
60°-70°	3945.8	31.2
70°-80°	2025.6	16.0
80°-90°	283.6	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°	12666.0	100.0
0°-180°	12666.0	100.0



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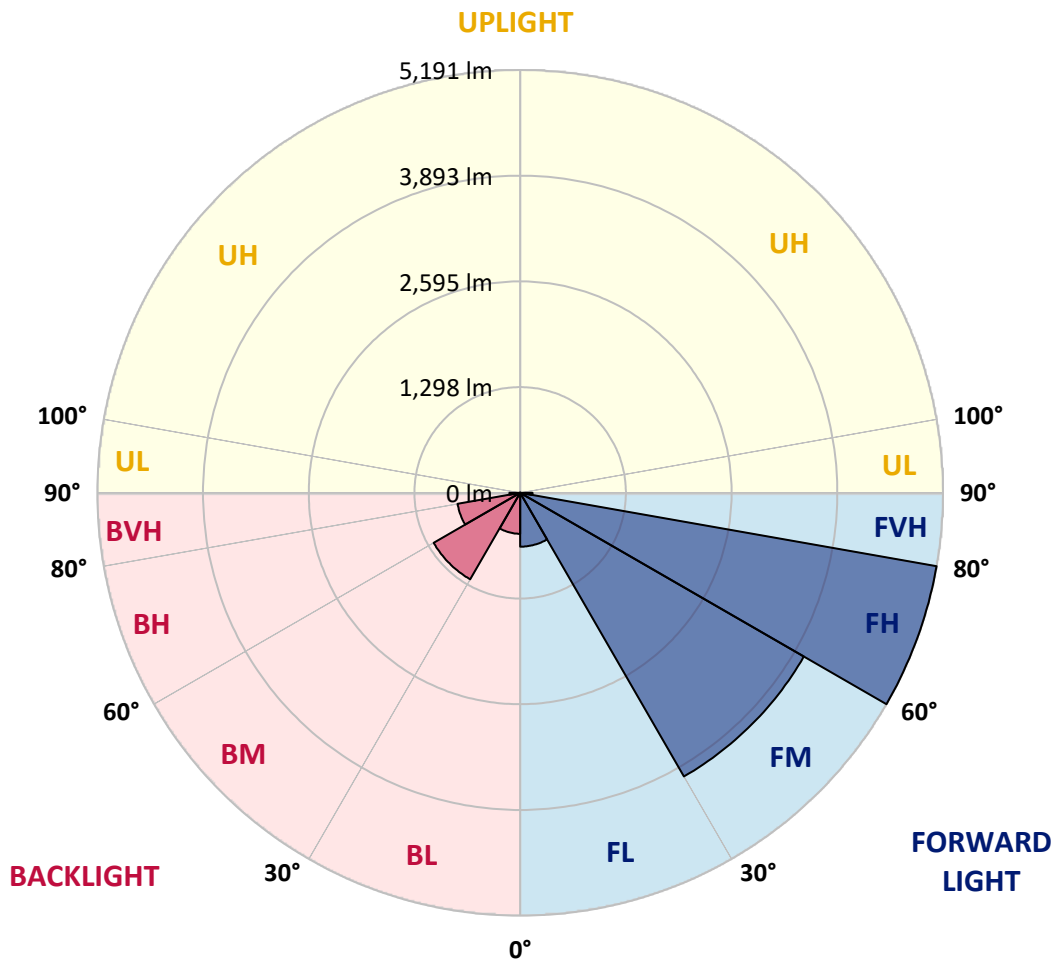
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	660.9	5.2			
FM	(30°-60°)	4020.5	31.7			
FH	(60°-80°)	5190.9	41.0			G3/7500
FVH	(80°-90°)	151.3	1.2			G2/225
BL	(0°-30°)	503.1	4.0	B2/1000		
BM	(30°-60°)	1226.5	9.7	B2/2500		
BH	(60°-80°)	780.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	132.3	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°	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6
2.5°	1556.0	1552.8	1551.6	1549.1	1546.1	1530.6	1527.6	1516.5	1501.1	1485.1	1468.4
5°	1658.2	1657.6	1650.8	1638.5	1618.7	1584.9	1576.9	1549.8	1513.5	1478.3	1443.1
7.5°	1748.2	1742.6	1729.6	1705.1	1670.6	1624.3	1613.3	1575.6	1525.7	1477.6	1430.2
10°	1814.0	1811.1	1782.6	1748.8	1703.8	1652.6	1639.8	1597.8	1543.0	1481.9	1422.8
12.5°	1851.6	1845.6	1812.9	1772.1	1718.5	1668.7	1655.8	1613.3	1551.6	1481.9	1412.3
15°	1849.3	1844.8	1812.3	1768.0	1713.6	1669.9	1658.2	1615.7	1549.8	1475.8	1398.8
17.5°	1799.9	1801.8	1774.1	1730.3	1685.9	1652.6	1642.2	1602.8	1537.4	1463.5	1382.9
20°	1713.6	1722.3	1703.8	1665.0	1640.3	1617.6	1610.8	1577.6	1518.3	1445.6	1365.6
22.5°	1627.4	1635.5	1628.0	1595.4	1591.6	1578.1	1574.4	1550.4	1501.6	1434.6	1355.1
25°	1563.9	1571.3	1570.1	1541.8	1552.8	1552.2	1549.1	1537.4	1498.1	1434.6	1356.9
27.5°	1546.7	1549.1	1546.7	1520.8	1536.2	1548.5	1546.1	1544.1	1509.2	1452.4	1380.2
30°	1605.8	1602.1	1583.1	1530.6	1544.8	1562.2	1559.5	1560.8	1542.4	1499.2	1432.6
32.5°	1841.9	1825.1	1764.8	1617.6	1579.9	1589.2	1590.4	1610.8	1613.8	1571.3	1514.1
35°	2194.9	2176.5	2098.3	1850.5	1689.1	1657.0	1657.0	1687.7	1706.3	1674.9	1640.3
37.5°	2569.0	2548.6	2506.7	2173.4	1918.2	1774.7	1771.5	1793.1	1819.6	1827.1	1835.6
40°	2994.1	2972.6	2984.3	2535.6	2238.0	1978.6	1934.9	1919.5	1991.0	2038.4	2107.5
42.5°	3459.5	3449.5	3453.9	2939.3	2602.2	2283.6	2221.4	2141.9	2228.2	2312.6	2457.5
45°	3890.1	3898.7	3894.4	3371.2	3007.7	2655.8	2590.0	2435.8	2520.3	2665.1	2901.0
47.5°	4267.2	4231.5	4286.9	3843.3	3461.9	3072.5	2991.0	2784.7	2870.3	3048.9	3448.4
50°	4725.1	4720.1	4638.8	4473.0	4010.9	3490.9	3384.3	3145.1	3278.3	3526.6	4137.9
52.5°	5206.3	5116.9	5042.5	4963.0	4593.3	3919.7	3789.1	3504.4	3757.6	4070.0	4978.3
55°	5304.9	5264.8	5357.3	5491.0	5154.6	4365.3	4213.1	3954.8	4297.4	4691.2	5947.6
57.5°	5515.7	5515.1	5706.0	5944.5	5732.5	4837.8	4684.4	4498.9	4904.3	5402.9	6976.6
60°	5658.1	5698.0	6053.0	6515.8	6300.2	5383.8	5242.7	5126.8	5594.6	6198.5	7935.4
62.5°	5732.5	5786.8	6271.2	6747.4	7102.4	6292.6	6151.7	5984.6	6507.7	7071.0	8496.3
65°	5422.6	5529.2	6237.2	6947.8	7804.8	7766.0	7702.5	7409.3	7649.5	7760.5	8293.5
67.5°	4564.8	4673.9	5498.4	6761.1	8306.4	9187.1	9200.6	8699.5	8352.0	7819.7	6973.1
70°	3252.4	3338.0	4020.2	5668.5	7924.4	10115.6	10161.8	9294.3	8212.1	6934.7	4871.7
72.5°	1544.1	1596.6	2242.3	3689.2	6288.3	9268.4	9357.7	8535.1	6982.9	5134.3	2657.6
75°	567.5	583.5	757.9	1569.5	3647.3	6834.9	6940.3	6118.4	4629.0	2556.0	1012.4
77.5°	340.2	350.6	425.2	662.4	1434.6	3906.8	4062.7	3327.5	2023.1	951.5	497.9
80°	237.8	245.2	305.1	412.2	677.9	1488.8	1627.4	1358.1	806.0	602.0	362.3
82.5°	160.8	164.5	214.4	278.6	450.4	531.7	573.7	603.9	543.5	448.0	229.8
85°	105.5	109.1	145.4	183.7	286.5	274.8	281.0	355.5	396.8	304.3	127.6
87.5°	60.4	62.8	87.6	97.9	140.4	116.5	117.7	187.3	254.0	205.3	77.7
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°	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6	1469.6
2.5°	1464.1	1456.2	1438.2	1427.1	1416.6	1414.2	1409.9	1409.4	1408.6	1408.6	1406.7
5°	1431.4	1417.9	1390.1	1374.8	1361.8	1360.7	1359.9	1363.1	1364.3	1365.6	1363.6
7.5°	1410.5	1392.1	1357.5	1335.3	1319.9	1316.2	1322.3	1336.6	1345.8	1349.6	1347.6
10°	1397.6	1374.8	1334.7	1310.6	1297.7	1295.8	1303.9	1320.5	1339.6	1347.0	1346.4
12.5°	1382.9	1356.9	1314.4	1289.1	1281.7	1285.5	1295.8	1311.3	1331.0	1342.6	1343.3
15°	1367.9	1337.8	1294.0	1271.8	1268.8	1273.6	1283.6	1295.3	1310.6	1322.3	1323.7
17.5°	1350.2	1318.7	1275.0	1252.1	1249.6	1252.1	1252.7	1259.0	1268.8	1279.8	1282.9
20°	1331.0	1298.9	1253.3	1230.6	1219.4	1209.6	1198.5	1199.7	1202.8	1213.9	1216.3
22.5°	1317.5	1285.5	1236.7	1205.3	1175.7	1146.1	1124.0	1120.8	1122.2	1131.3	1134.4
25°	1318.7	1284.8	1232.5	1178.1	1113.4	1066.1	1036.5	1031.6	1031.0	1037.7	1042.0
27.5°	1342.6	1308.8	1248.5	1150.5	1045.6	975.5	943.9	940.3	935.5	937.2	942.2
30°	1396.3	1365.0	1287.2	1122.2	972.3	886.7	854.1	850.3	843.6	840.5	844.1
32.5°	1483.8	1457.9	1344.0	1095.0	899.1	810.9	777.7	769.7	765.4	761.7	764.6
35°	1629.3	1618.1	1419.7	1065.4	834.3	752.4	722.1	709.9	703.7	710.5	715.4
37.5°	1857.2	1863.4	1518.9	1019.1	784.4	713.6	688.3	674.1	664.8	670.5	676.0
40°	2180.1	2184.5	1628.6	953.9	741.3	690.7	663.7	650.7	637.7	627.9	627.2
42.5°	2604.0	2560.3	1736.5	883.0	691.3	676.7	646.4	630.4	610.7	583.5	578.0
45°	3106.9	2953.4	1818.3	801.6	635.3	659.4	627.2	605.1	574.2	544.7	541.7
47.5°	3686.1	3375.7	1858.5	717.2	582.9	634.1	603.9	568.7	529.9	515.2	513.3
50°	4393.5	3876.5	1877.5	635.3	537.4	600.7	570.0	528.7	496.0	493.0	491.2
52.5°	5198.9	4479.2	1883.7	568.2	499.7	557.7	542.2	502.2	476.3	478.7	478.7
55°	6041.9	5101.6	1799.9	519.5	465.2	513.3	523.8	491.7	470.2	480.1	483.6
57.5°	6815.9	5653.0	1536.2	481.9	432.5	479.4	517.1	501.7	486.8	526.9	529.3
60°	7409.8	5979.1	1147.3	448.0	408.5	467.7	534.9	539.3	542.8	638.3	651.4
62.5°	7534.4	5870.7	788.7	421.5	397.5	477.5	567.5	568.2	563.9	630.4	638.3
65°	6963.1	5184.7	573.7	406.8	388.2	495.4	595.2	582.3	554.0	604.5	589.6
67.5°	5529.8	3906.1	477.5	395.7	374.7	494.2	624.9	595.2	548.4	592.2	568.2
70°	3589.4	2362.0	425.2	386.5	358.7	470.8	642.1	594.0	532.3	550.9	522.5
72.5°	1751.2	1056.1	390.0	372.7	342.0	438.2	641.5	582.9	515.7	514.5	499.1
75°	685.2	483.6	358.1	352.4	313.7	401.2	624.2	566.9	496.0	476.3	470.8
77.5°	401.2	345.0	317.3	322.3	279.7	364.2	599.0	539.3	468.9	445.5	439.4
80°	292.0	258.3	270.5	278.6	239.0	327.3	565.0	505.2	438.7	450.4	441.8
82.5°	187.3	166.4	219.4	227.5	199.1	289.7	528.2	469.5	396.2	360.0	351.2
85°	95.5	105.5	163.3	173.2	153.4	237.8	483.1	422.2	348.2	299.4	304.3
87.5°	53.5	72.1	104.2	116.5	108.4	183.1	391.9	348.2	284.0	231.0	203.3
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)