

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: P191551

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191551
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-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 12161.9 lumens
Efficiency: N/A
Efficacy: 126.7 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

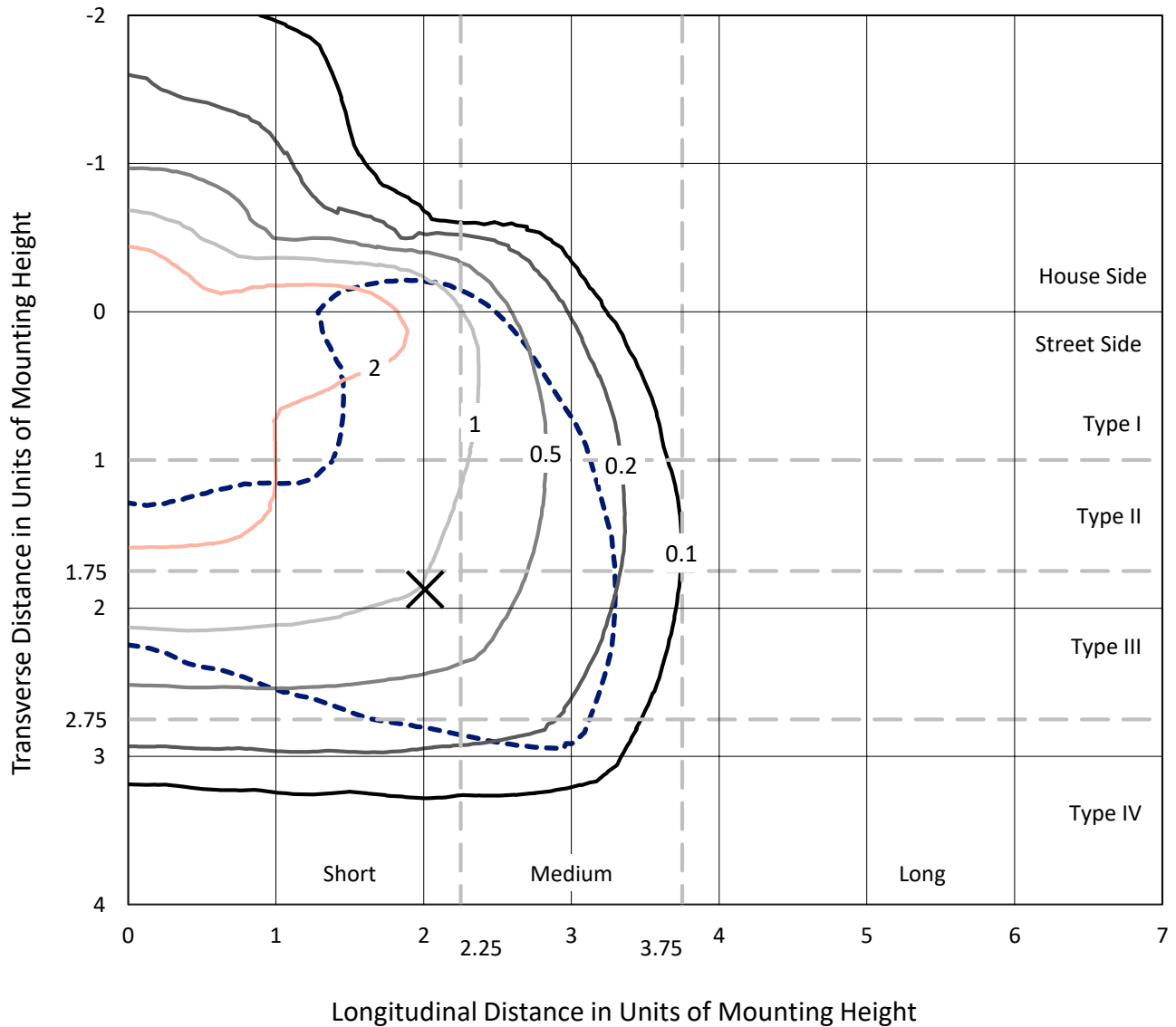
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

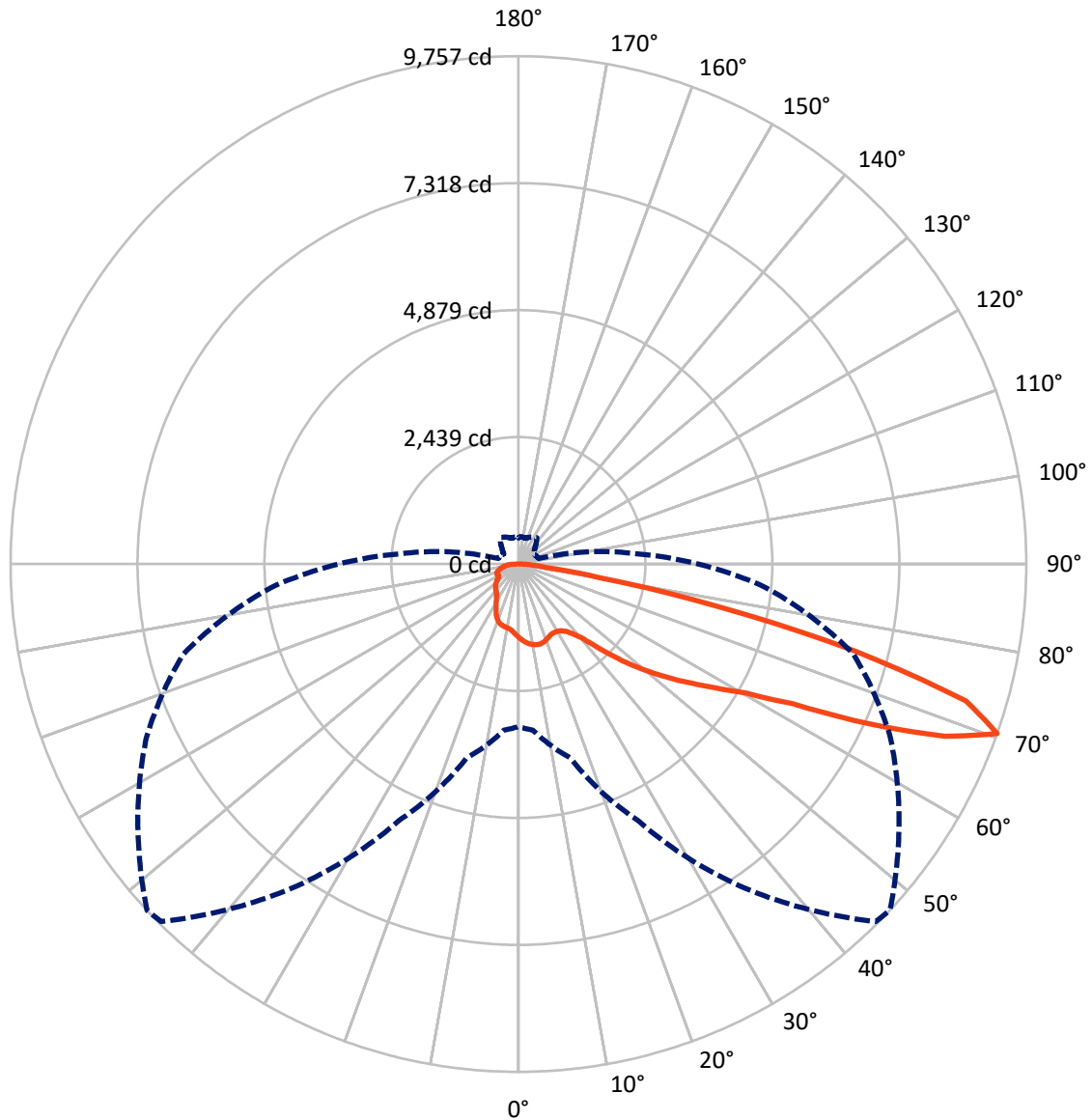
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	2537.2	0.0	2537.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9624.7	0.0	9624.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	12161.9	0.0	12161.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.1
10°-20°	396.7	3.3
20°-30°	585.8	4.8
30°-40°	851.4	7.0
40°-50°	1532.3	12.6
50°-60°	2654.5	21.8
60°-70°	3788.7	31.2
70°-80°	1944.9	16.0
80°-90°	272.3	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°	12161.9	100.0
0°-180°	12161.9	100.0

Coefficient of Utilization



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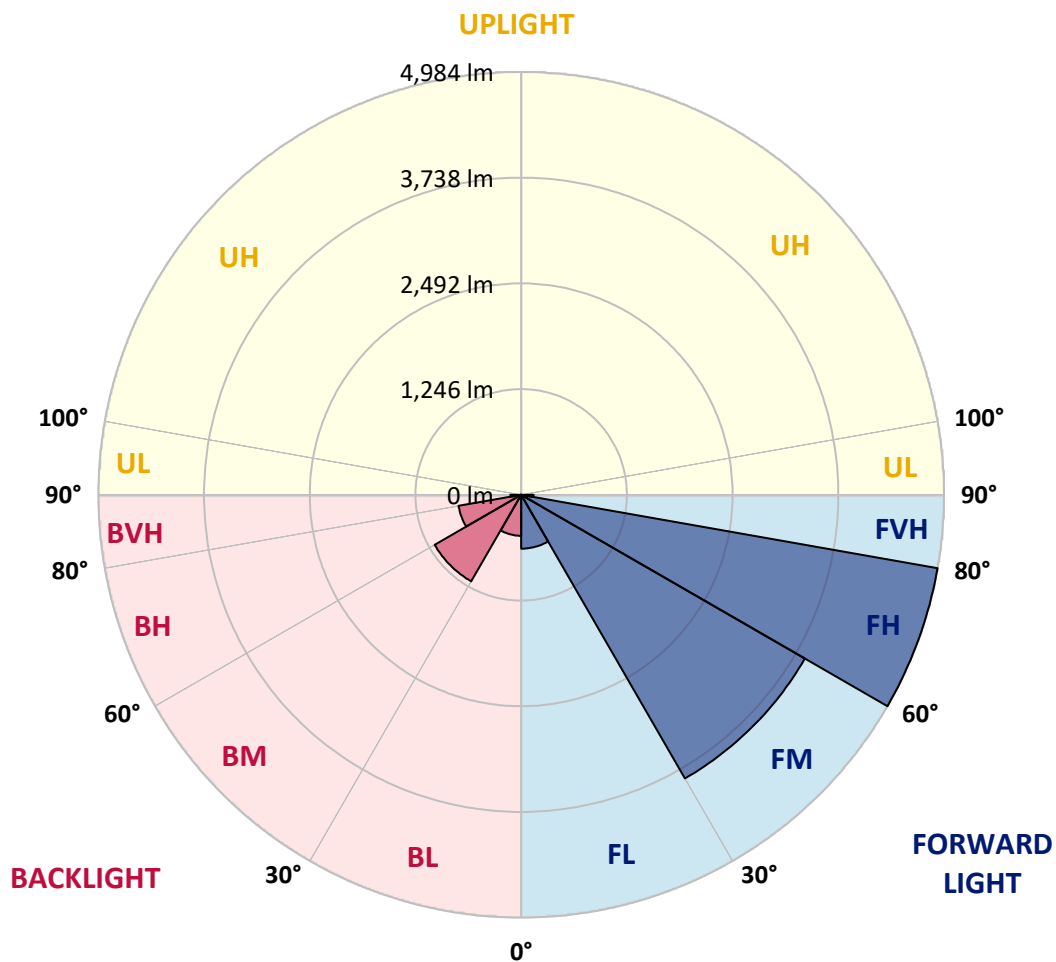
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.6	5.2			
FM	(30°-60°)	3860.5	31.7			
FH	(60°-80°)	4984.3	41.0			G2/5000
FVH	(80°-90°)	145.3	1.2			G2/225
BL	(0°-30°)	483.1	4.0	B1/500		
BM	(30°-60°)	1177.7	9.7	B2/2500		
BH	(60°-80°)	749.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	127.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1494.0	1491.1	1489.8	1487.5	1484.5	1469.8	1466.8	1456.2	1441.3	1426.0	1409.9
5°	1592.2	1591.6	1585.1	1573.3	1554.4	1521.8	1514.1	1488.1	1453.2	1419.4	1385.7
7.5°	1678.6	1673.2	1660.9	1637.1	1604.1	1559.7	1549.1	1512.9	1465.0	1418.8	1373.3
10°	1741.9	1738.9	1711.7	1679.2	1636.0	1586.9	1574.4	1534.2	1481.5	1423.0	1366.2
12.5°	1778.0	1772.1	1740.8	1701.7	1650.2	1602.2	1589.9	1549.1	1489.8	1423.0	1356.1
15°	1775.6	1771.4	1740.1	1697.5	1645.4	1603.5	1592.2	1551.4	1488.1	1417.1	1343.1
17.5°	1728.3	1730.1	1703.4	1661.5	1618.8	1586.9	1576.8	1538.9	1476.2	1405.2	1327.7
20°	1645.4	1653.7	1636.0	1598.7	1575.0	1553.1	1546.6	1514.7	1457.9	1388.0	1311.1
22.5°	1562.7	1570.3	1563.2	1531.9	1528.3	1515.3	1511.7	1488.7	1442.0	1377.4	1301.1
25°	1501.7	1508.8	1507.6	1480.4	1491.1	1490.4	1487.5	1476.2	1438.4	1377.4	1302.8
27.5°	1485.1	1487.5	1485.1	1460.3	1475.1	1486.9	1484.5	1482.8	1449.0	1394.6	1325.3
30°	1541.9	1538.4	1520.0	1469.8	1483.4	1500.0	1497.5	1498.7	1480.9	1439.6	1375.7
32.5°	1768.6	1752.5	1694.5	1553.1	1517.0	1525.9	1527.2	1546.6	1549.6	1508.8	1453.7
35°	2107.6	2089.8	2014.7	1776.8	1621.8	1591.0	1591.0	1620.6	1638.4	1608.2	1575.0
37.5°	2466.7	2447.2	2406.9	2086.8	1841.9	1704.0	1701.1	1721.8	1747.2	1754.4	1762.6
40°	2875.0	2854.2	2865.5	2434.7	2149.0	1899.9	1857.9	1843.1	1911.7	1957.3	2023.5
42.5°	3321.7	3312.2	3316.4	2822.3	2498.7	2192.8	2133.0	2056.6	2139.5	2220.6	2359.6
45°	3735.3	3743.6	3739.4	3237.0	2888.0	2550.1	2486.8	2338.9	2420.0	2559.0	2785.6
47.5°	4097.3	4063.1	4116.4	3690.3	3324.1	2950.1	2872.0	2673.8	2756.0	2927.6	3311.1
50°	4537.0	4532.3	4454.1	4295.0	3851.2	3351.9	3249.5	3020.0	3147.7	3386.2	3973.1
52.5°	4999.1	4913.3	4841.7	4765.4	4410.4	3763.6	3638.2	3364.9	3608.0	3908.1	4780.1
55°	5093.8	5055.3	5144.0	5272.5	4949.4	4191.4	4045.3	3797.4	4126.4	4504.5	5710.9
57.5°	5296.1	5295.5	5478.9	5708.0	5504.4	4645.3	4497.9	4319.8	4709.2	5187.8	6699.0
60°	5432.8	5471.3	5812.1	6256.4	6049.3	5169.5	5034.0	4922.7	5371.8	5951.7	7619.7
62.5°	5504.4	5556.5	6021.5	6478.9	6819.7	6042.3	5906.7	5746.4	6248.7	6789.5	8158.0
65°	5206.8	5309.1	5989.0	6671.2	7494.2	7456.9	7396.0	7114.3	7345.1	7451.6	7963.4
67.5°	4383.1	4487.9	5279.6	6492.0	7975.8	8821.3	8834.4	8353.3	8019.6	7508.4	6695.4
70°	3122.9	3205.1	3860.1	5442.8	7609.0	9713.0	9757.4	8924.3	7885.3	6658.8	4677.9
72.5°	1482.8	1533.0	2153.1	3542.4	6038.1	8899.5	8985.2	8195.4	6704.9	4929.9	2552.0
75°	544.9	560.3	727.7	1507.0	3502.2	6562.9	6664.1	5874.8	4444.7	2454.3	972.1
77.5°	326.6	336.7	408.3	636.1	1377.4	3751.3	3900.9	3195.1	1942.5	913.6	478.1
80°	228.4	235.5	292.9	395.9	650.8	1429.5	1562.7	1304.1	774.0	578.1	347.9
82.5°	154.5	157.9	205.9	267.4	432.5	510.7	550.9	579.8	521.9	430.2	220.7
85°	101.2	104.8	139.6	176.4	275.2	263.9	269.9	341.4	381.0	292.3	122.4
87.5°	58.0	60.4	84.0	94.1	134.9	111.8	113.0	179.8	243.8	197.0	74.6
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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1405.8	1398.2	1381.0	1370.3	1360.3	1357.9	1353.8	1353.2	1352.5	1352.5	1350.8
5°	1374.4	1361.4	1334.8	1320.0	1307.6	1306.4	1305.8	1308.8	1310.0	1311.1	1309.4
7.5°	1354.4	1336.6	1303.4	1282.2	1267.3	1263.9	1269.8	1283.4	1292.2	1295.8	1294.0
10°	1341.9	1320.0	1281.6	1258.5	1246.1	1244.3	1252.0	1267.9	1286.4	1293.4	1292.8
12.5°	1327.7	1302.8	1262.0	1237.8	1230.7	1234.3	1244.3	1259.0	1278.1	1289.2	1289.8
15°	1313.6	1284.5	1242.5	1221.2	1218.2	1223.0	1232.5	1243.7	1258.5	1269.8	1270.9
17.5°	1296.4	1266.2	1224.2	1202.3	1199.9	1202.3	1202.9	1208.8	1218.2	1228.9	1231.8
20°	1278.1	1247.3	1203.5	1181.6	1171.0	1161.5	1150.8	1152.0	1154.9	1165.7	1168.0
22.5°	1265.0	1234.3	1187.5	1157.4	1128.9	1100.5	1079.2	1076.2	1077.5	1086.4	1089.2
25°	1266.2	1233.7	1183.3	1131.3	1069.2	1023.6	995.2	990.4	989.9	996.4	1000.5
27.5°	1289.2	1256.7	1198.7	1104.7	1004.1	936.6	906.4	902.9	898.2	900.0	904.7
30°	1340.8	1310.6	1236.0	1077.5	933.6	851.4	820.1	816.5	810.0	807.0	810.6
32.5°	1424.8	1399.9	1290.5	1051.4	863.3	778.7	746.7	739.0	734.9	731.3	734.3
35°	1564.4	1553.8	1363.2	1023.1	801.2	722.4	693.5	681.6	675.7	682.2	686.9
37.5°	1783.3	1789.2	1458.5	978.7	753.2	685.2	660.9	647.3	638.4	643.7	649.1
40°	2093.4	2097.5	1563.8	916.0	711.8	663.3	637.2	624.8	612.3	602.9	602.3
42.5°	2500.4	2458.5	1667.3	847.9	663.9	649.7	620.6	605.3	586.4	560.3	555.0
45°	2983.2	2835.9	1746.1	769.8	610.0	633.1	602.3	581.0	551.5	523.0	520.1
47.5°	3539.4	3241.2	1784.5	688.8	559.8	608.9	579.8	546.2	508.8	494.6	492.9
50°	4218.6	3722.2	1802.8	610.0	516.0	576.8	547.3	507.7	476.3	473.3	471.6
52.5°	4992.0	4300.9	1808.8	545.5	479.9	535.5	520.7	482.2	457.4	459.7	459.7
55°	5801.5	4898.5	1728.3	498.8	446.7	492.9	502.9	472.2	451.4	460.9	464.4
57.5°	6544.5	5428.1	1475.1	462.7	415.3	460.3	496.4	481.6	467.4	505.8	508.2
60°	7114.9	5741.1	1101.7	430.2	392.3	449.1	513.6	517.7	521.3	613.0	625.4
62.5°	7234.4	5637.0	757.4	404.7	381.7	458.6	544.9	545.5	541.3	605.3	613.0
65°	6686.0	4978.4	550.9	390.5	372.8	475.7	571.5	559.1	531.9	580.4	566.2
67.5°	5309.7	3750.6	458.6	379.8	359.8	474.5	600.0	571.5	526.6	568.6	545.5
70°	3446.5	2267.9	408.3	371.0	344.3	452.0	616.5	570.4	511.2	529.0	501.8
72.5°	1681.5	1014.2	374.5	357.9	328.4	420.6	615.9	559.8	495.2	494.1	479.3
75°	658.0	464.4	343.8	338.4	301.2	385.1	599.3	544.3	476.3	457.4	452.0
77.5°	385.1	331.3	304.7	309.4	268.6	349.6	575.1	517.7	450.3	427.8	421.9
80°	280.5	248.0	259.7	267.4	229.6	314.1	542.6	485.2	421.3	432.5	424.2
82.5°	179.8	159.8	210.6	218.3	191.1	278.0	507.1	450.8	380.4	345.6	337.3
85°	91.8	101.2	156.8	166.2	147.3	228.4	463.9	405.3	334.3	287.6	292.3
87.5°	51.5	69.3	100.0	111.8	104.1	175.7	376.3	334.3	272.7	221.9	195.3
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)