

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: P194011

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194011
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-03-LED-E1-T3R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9989 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - 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

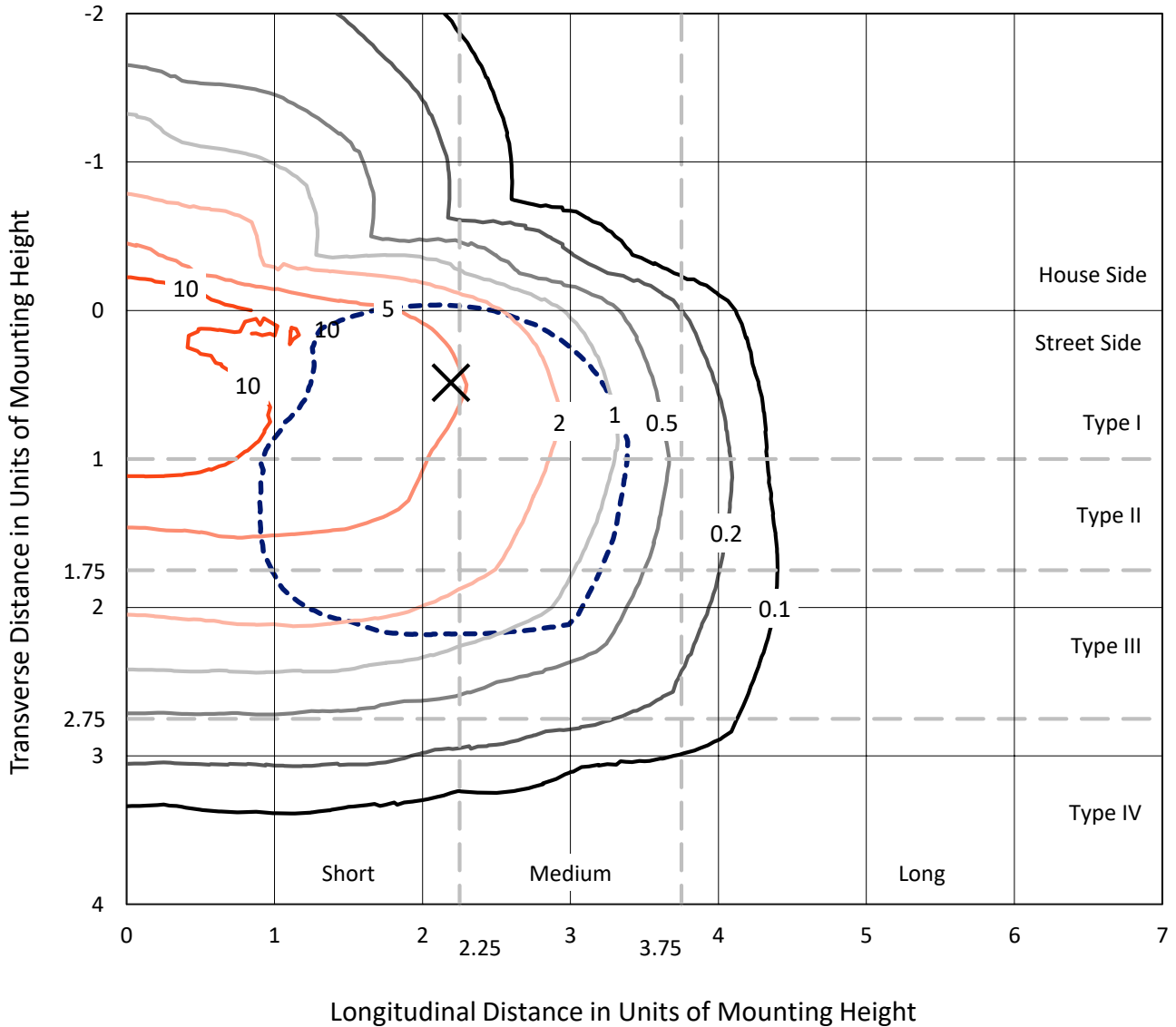


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

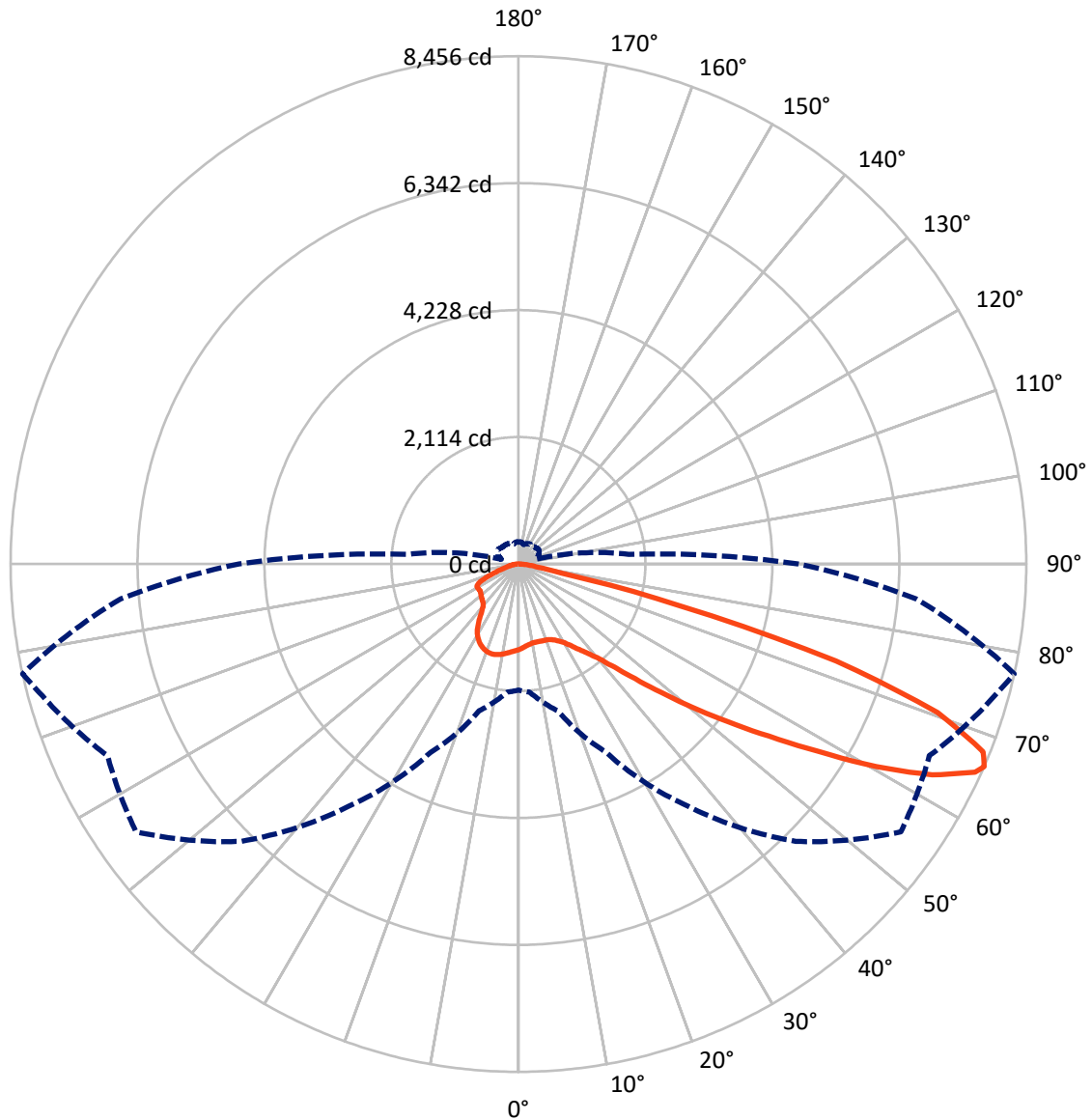


Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.6	0.0	1706.6
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8282.4	0.0	8282.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	9989.0	0.0	9989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	1.3
10°-20°	358.8	3.6
20°-30°	612.3	6.1
30°-40°	980.2	9.8
40°-50°	1514.3	15.2
50°-60°	2147.9	21.5
60°-70°	2873.3	28.8
70°-80°	1247.8	12.5
80°-90°	127.2	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°	9989.0	100.0
0°-180°	9989.0	100.0



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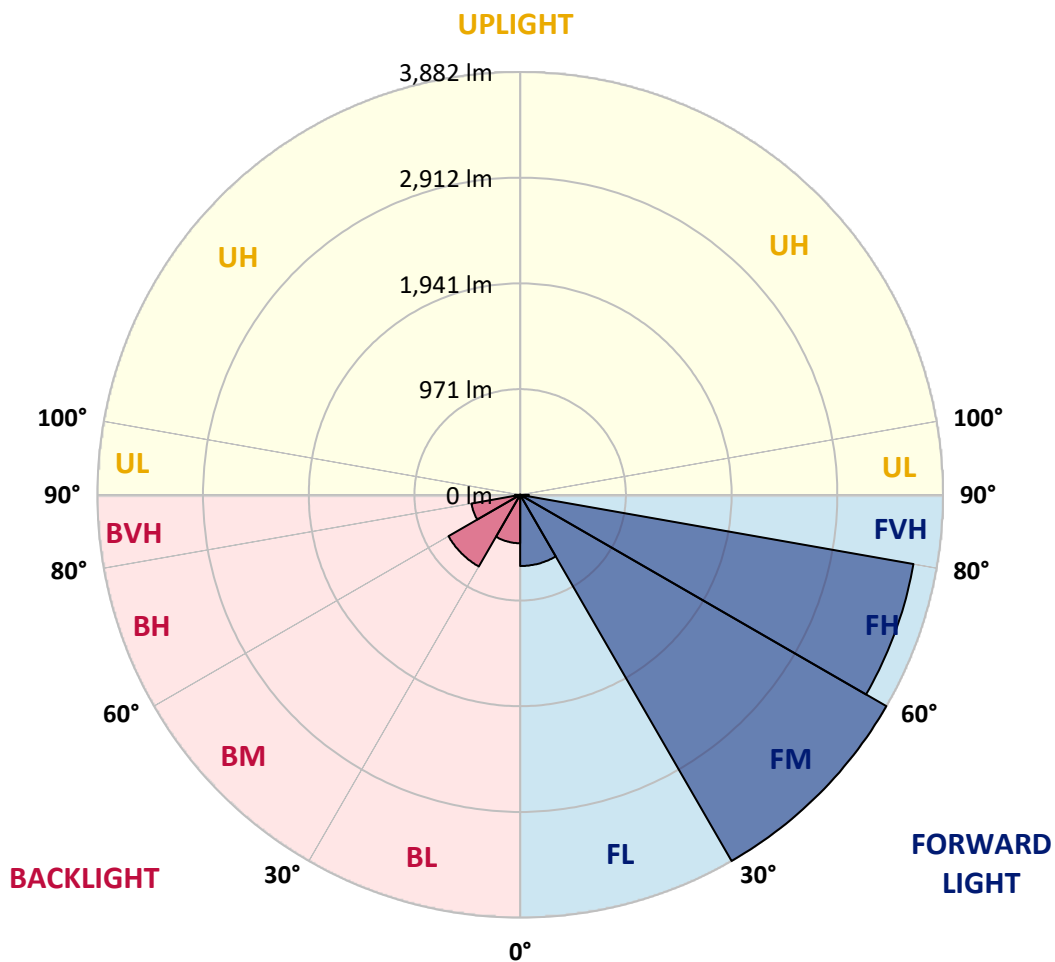
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	653.8	6.5			
FM	(30°-60°)	3882.2	38.9			
FH	(60°-80°)	3666.6	36.7			G2/5000
FVH	(80°-90°)	79.8	0.8			G1/100
BL	(0°-30°)	444.5	4.4	B1/500		
BM	(30°-60°)	760.2	7.6	B1/1000		
BH	(60°-80°)	454.5	4.5	B1/500		G1/500
BVH	(80°-90°)	47.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1259.2	1267.7	1274.8	1281.4	1294.6	1316.3	1341.4	1361.7	1390.9	1396.6	1412.2
5°	1143.6	1143.6	1149.3	1159.2	1177.1	1209.7	1243.7	1289.0	1352.7	1367.8	1409.3
7.5°	1087.4	1087.9	1091.2	1099.7	1115.3	1145.0	1182.3	1235.6	1322.0	1347.0	1417.8
10°	1108.2	1103.5	1096.4	1092.2	1094.5	1112.0	1147.4	1206.8	1303.1	1335.2	1436.7
12.5°	1224.3	1215.3	1190.8	1158.2	1127.1	1114.3	1135.1	1193.2	1295.1	1332.4	1461.7
15°	1414.0	1410.3	1364.5	1297.0	1221.5	1158.2	1144.1	1188.0	1296.0	1335.7	1491.4
17.5°	1651.9	1646.7	1586.3	1488.1	1365.0	1241.8	1175.7	1192.2	1299.4	1341.4	1520.2
20°	1892.2	1876.1	1811.0	1693.9	1535.8	1355.5	1228.1	1203.1	1303.6	1347.5	1550.4
22.5°	2071.5	2058.3	1999.8	1886.0	1703.8	1487.2	1298.4	1221.9	1317.3	1365.4	1587.7
25°	2229.1	2230.1	2172.0	2062.1	1873.7	1626.9	1389.0	1272.4	1352.2	1402.2	1638.7
27.5°	2424.1	2412.7	2358.5	2249.4	2041.8	1768.0	1498.5	1341.8	1404.1	1454.6	1705.7
30°	2657.2	2649.2	2586.4	2462.8	2228.2	1919.5	1623.6	1422.5	1471.1	1523.5	1793.5
32.5°	2931.4	2927.7	2862.5	2703.5	2443.4	2097.9	1770.4	1529.2	1571.2	1625.5	1919.5
35°	3253.3	3253.8	3176.9	2985.7	2678.9	2305.6	1937.0	1666.5	1693.0	1749.6	2069.6
37.5°	3451.6	3475.6	3446.8	3251.9	2945.6	2537.8	2153.2	1848.7	1831.7	1888.8	2230.6
40°	3494.0	3523.3	3614.4	3515.3	3243.9	2793.6	2344.8	2023.8	2002.6	2072.4	2437.8
42.5°	3434.6	3475.2	3667.7	3737.6	3560.6	3108.9	2602.5	2283.9	2257.0	2350.9	2695.5
45°	3399.2	3429.4	3652.2	3853.2	3835.3	3465.2	2930.5	2610.5	2600.6	2723.8	2992.8
47.5°	3337.8	3365.2	3579.5	3880.1	3996.7	3791.9	3324.6	3009.8	3029.1	3190.6	3328.4
50°	3370.9	3382.2	3498.3	3811.7	4043.4	4031.1	3765.0	3472.3	3538.4	3739.9	3708.3
52.5°	3366.1	3395.4	3488.8	3699.3	4049.6	4178.9	4198.7	3988.2	4127.4	4358.7	4129.8
55°	2721.4	2775.2	3377.9	3671.0	4071.3	4323.8	4584.8	4531.9	4791.5	5061.0	4605.5
57.5°	2598.7	2632.7	2966.8	3730.5	4186.4	4600.4	5014.3	5130.4	5564.6	5877.5	5185.1
60°	2574.6	2616.6	2962.6	3803.2	4420.1	5051.1	5651.0	5854.9	6505.2	6847.9	5857.2
62.5°	2499.6	2544.9	2934.7	3793.7	4751.9	5674.6	6466.1	6625.1	7397.3	7730.5	6419.3
65°	2261.7	2304.2	2707.7	3641.3	4975.6	6340.1	7430.8	7331.2	8101.5	8352.1	6699.7
66°	2098.9	2140.4	2528.8	3461.9	4923.7	6528.8	7772.5	7549.7	8259.1	8455.5	6645.0
67.5°	1801.1	1833.6	2181.5	3060.3	4647.5	6581.7	8059.9	7714.0	8275.6	8345.0	6332.0
70°	1137.9	1147.4	1417.8	2112.6	3518.1	5708.1	7622.4	7306.2	7593.2	7405.3	5308.3
72.5°	493.7	490.4	680.6	1074.7	1991.7	3830.1	6165.9	6028.6	5956.3	5527.8	3715.9
75°	274.7	278.5	353.5	498.9	809.4	1881.3	4033.5	3859.8	3259.0	2780.9	1685.0
77.5°	220.4	225.6	293.1	354.0	363.4	656.0	1887.4	1535.8	924.6	741.9	468.2
80°	174.2	183.6	255.8	275.6	245.0	270.4	609.8	487.6	365.8	335.6	242.6
82.5°	137.8	144.4	219.5	208.6	171.3	182.2	292.2	284.6	237.9	216.6	140.2
85°	99.1	111.4	180.3	157.2	112.3	122.7	194.0	186.0	136.4	111.4	61.8
87.5°	40.6	52.9	127.4	104.3	62.8	57.1	96.8	91.1	64.7	47.2	30.7
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°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1422.1	1433.4	1448.0	1457.0	1461.7	1465.0	1470.2	1469.7	1471.1	1471.6	1473.5
5°	1431.5	1450.4	1471.6	1477.3	1477.3	1472.1	1466.9	1458.4	1455.1	1454.2	1455.1
7.5°	1456.0	1476.8	1495.2	1488.6	1474.5	1453.7	1426.8	1403.2	1390.4	1386.2	1385.2
10°	1487.2	1512.2	1519.8	1494.7	1453.2	1403.2	1349.9	1311.1	1289.0	1282.8	1280.9
12.5°	1525.0	1548.6	1538.2	1485.3	1408.4	1327.7	1254.0	1192.2	1146.0	1131.3	1130.4
15°	1566.5	1584.9	1548.6	1456.0	1341.4	1222.4	1091.2	984.5	927.0	908.6	907.1
17.5°	1605.2	1614.6	1542.4	1405.1	1242.7	1050.1	876.0	793.9	774.0	778.8	779.7
20°	1638.2	1638.2	1521.7	1331.9	1087.4	823.1	713.2	711.7	725.9	740.1	742.9
22.5°	1674.6	1652.9	1485.3	1228.6	867.5	673.5	657.5	670.7	686.7	702.3	704.7
25°	1719.4	1664.7	1434.8	1071.9	682.0	611.7	617.8	628.7	636.7	646.6	648.0
27.5°	1769.4	1679.8	1368.3	856.2	591.9	573.0	577.7	581.5	580.5	584.3	585.3
30°	1829.4	1697.2	1277.2	669.3	554.6	539.9	531.4	528.1	528.1	534.3	536.6
32.5°	1909.6	1723.2	1146.4	573.5	536.6	516.3	489.0	476.7	481.4	502.2	506.9
35°	1997.9	1751.0	969.4	540.9	532.9	505.5	463.0	440.4	440.8	460.2	466.3
37.5°	2094.2	1786.4	775.5	534.7	541.4	506.0	449.3	418.2	405.4	405.4	407.8
40°	2217.3	1822.8	627.7	539.0	559.3	511.6	442.2	400.7	364.8	365.8	367.7
42.5°	2377.8	1853.9	548.4	548.0	581.0	519.2	441.8	377.6	346.4	367.7	387.0
45°	2556.2	1869.5	513.5	556.0	598.5	523.9	434.2	373.8	348.8	412.0	448.8
47.5°	2761.5	1860.5	494.2	558.8	602.7	523.9	425.7	382.8	365.3	477.2	520.1
50°	2986.7	1834.6	475.3	553.2	601.3	522.9	433.7	391.7	371.4	488.5	518.2
52.5°	3251.4	1812.9	455.5	540.9	591.4	517.8	443.2	388.0	352.1	444.1	464.9
55°	3553.5	1819.0	433.3	523.4	575.8	507.8	439.9	372.9	331.8	391.3	404.0
57.5°	3939.6	1892.2	406.8	501.2	554.6	491.3	428.1	365.8	325.7	354.9	362.5
60°	4370.5	2019.6	373.8	479.1	528.1	464.9	419.1	369.1	328.5	352.1	355.9
62.5°	4686.7	2093.7	345.5	446.5	492.3	435.6	407.8	373.3	336.0	362.0	361.1
65°	4772.6	1971.9	310.1	398.8	443.7	405.0	393.6	378.1	339.4	370.0	365.8
66°	4652.3	1840.7	294.5	376.6	419.1	389.9	386.5	377.6	337.9	371.0	363.9
67.5°	4360.1	1571.7	267.6	344.1	379.9	367.2	375.2	373.3	334.2	370.0	360.1
70°	3555.9	1072.3	228.9	286.5	316.2	323.3	353.5	358.2	321.9	353.5	331.8
72.5°	2484.5	653.2	202.5	222.3	255.8	275.6	323.8	337.5	305.4	308.7	287.9
75°	1200.7	346.9	183.6	172.3	198.7	230.3	287.9	309.1	279.4	258.2	250.6
77.5°	374.3	211.9	155.8	138.8	155.8	186.0	240.7	270.9	248.7	216.2	213.3
80°	201.1	155.8	119.9	111.4	123.2	145.8	189.3	226.1	213.8	194.0	173.2
82.5°	132.6	101.0	88.7	86.4	93.9	111.4	140.6	187.4	187.4	166.1	120.8
85°	68.4	61.8	60.9	60.9	65.6	74.1	95.8	144.4	153.9	87.8	72.7
87.5°	34.0	35.4	33.0	34.5	36.8	36.3	45.8	72.7	86.8	53.3	44.4
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)