

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: P191480

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191480
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-02-LED-E1-T3R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10291.9 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

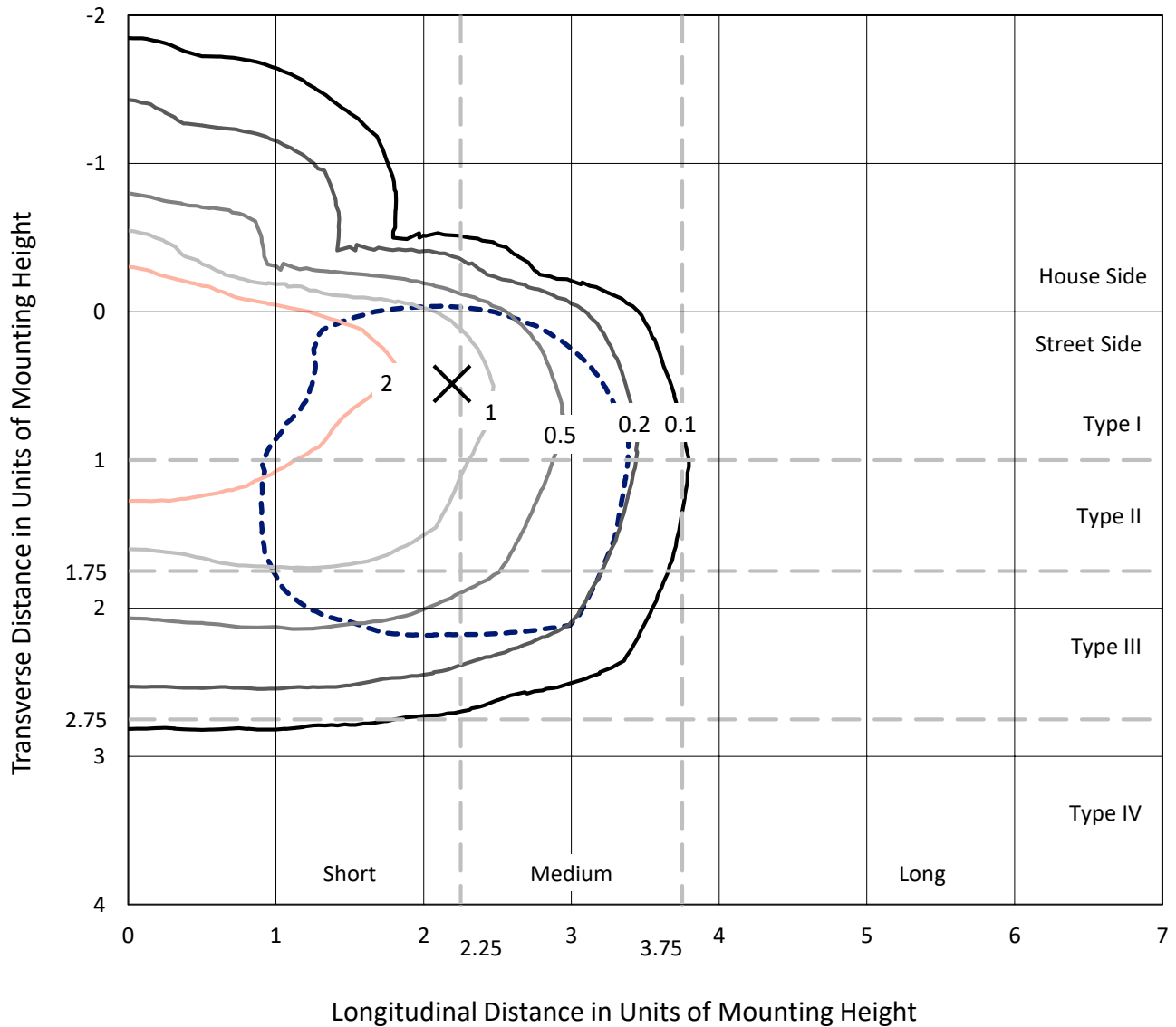


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Iso-Footcandle Lines of Horizontal Illumination

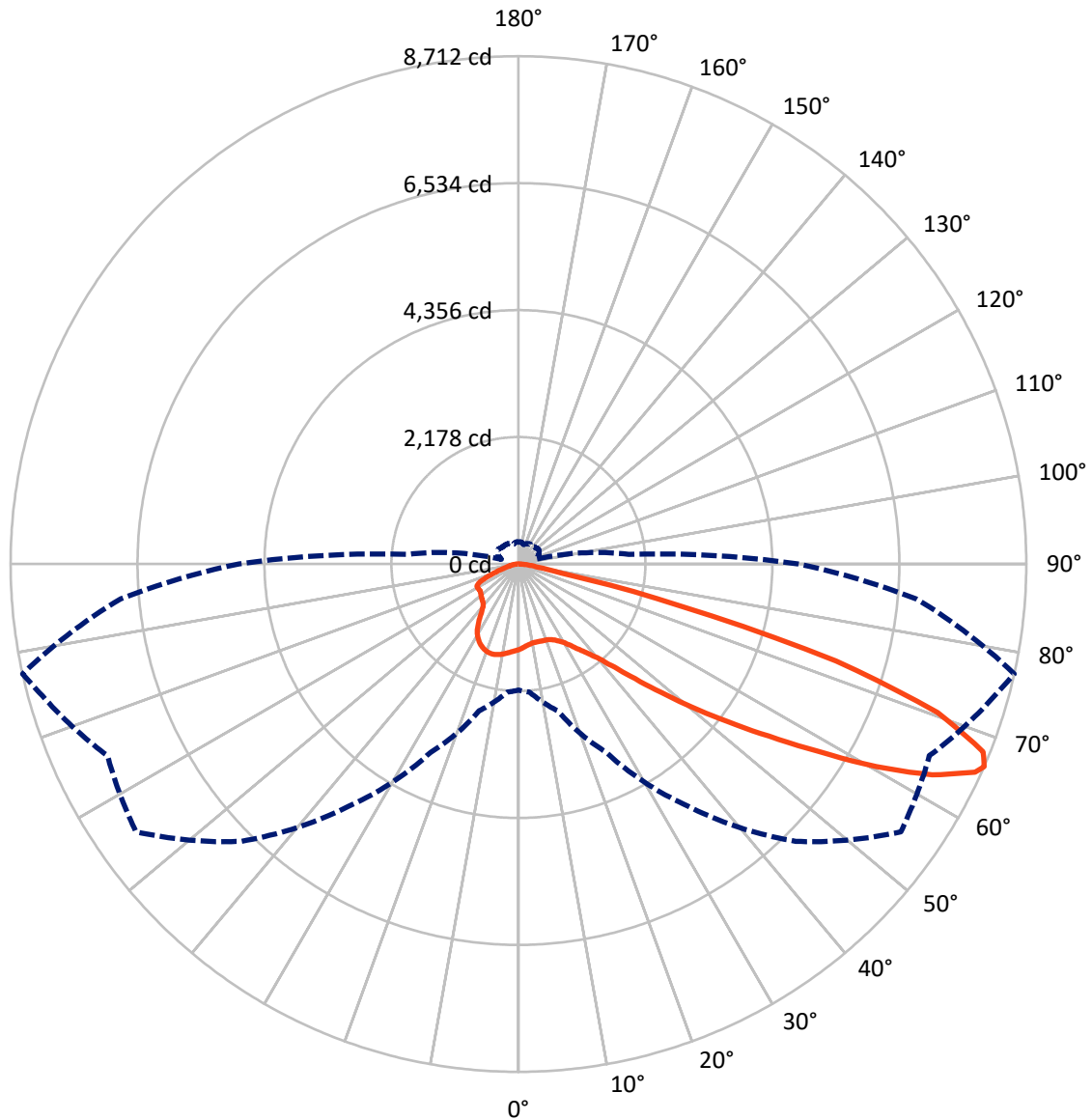
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	1758.3	0.0	1758.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8533.6	0.0	8533.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	10291.9	0.0	10291.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.3
10°-20°	369.7	3.6
20°-30°	630.9	6.1
30°-40°	1009.9	9.8
40°-50°	1560.3	15.2
50°-60°	2213.0	21.5
60°-70°	2960.4	28.8
70°-80°	1285.6	12.5
80°-90°	131.1	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°	10291.9	100.0
0°-180°	10291.9	100.0



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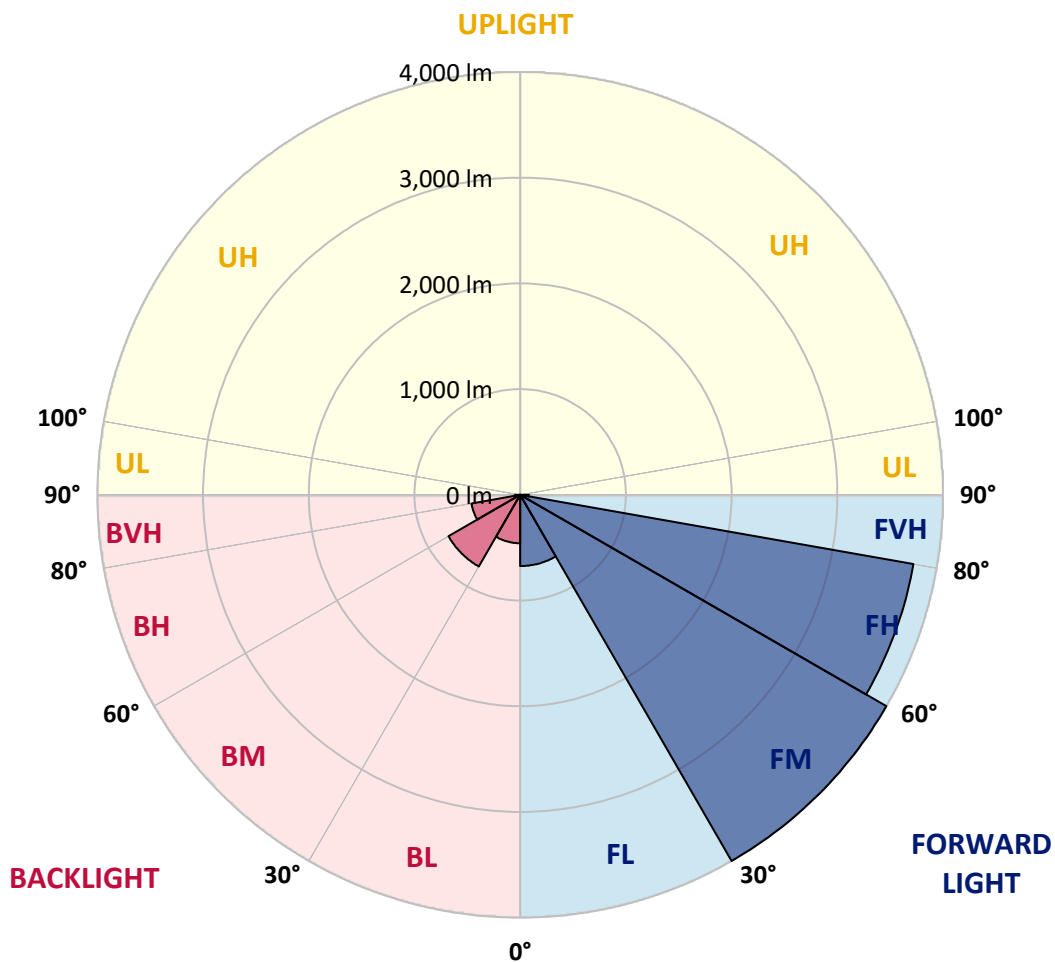
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	673.7	6.5			
FM	(30°-60°)	4000.0	38.9			
FH	(60°-80°)	3777.8	36.7			G2/5000
FVH	(80°-90°)	82.2	0.8			G1/100
BL	(0°-30°)	457.9	4.4	B1/500		
BM	(30°-60°)	783.2	7.6	B1/1000		
BH	(60°-80°)	468.3	4.5	B1/500		G1/500
BVH	(80°-90°)	48.9	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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1297.4	1306.2	1313.5	1320.3	1333.9	1356.2	1382.0	1403.0	1433.1	1438.9	1454.9
5°	1178.2	1178.2	1184.1	1194.3	1212.8	1246.4	1281.3	1328.1	1393.7	1409.2	1452.1
7.5°	1120.4	1120.8	1124.3	1133.0	1149.1	1179.8	1218.1	1273.1	1362.1	1387.8	1460.8
10°	1141.8	1136.9	1129.6	1125.2	1127.7	1145.7	1182.1	1243.4	1342.6	1375.7	1480.3
12.5°	1261.4	1252.2	1226.9	1193.4	1161.3	1148.2	1169.5	1229.4	1334.3	1372.8	1506.0
15°	1456.9	1453.0	1405.8	1336.3	1258.5	1193.4	1178.7	1224.0	1335.4	1376.2	1536.7
17.5°	1702.0	1696.7	1634.4	1533.3	1406.4	1279.4	1211.4	1228.4	1338.7	1382.0	1566.3
20°	1949.5	1933.0	1865.9	1745.3	1582.4	1396.6	1265.3	1239.5	1343.1	1388.3	1597.4
22.5°	2134.3	2120.7	2060.4	1943.2	1755.5	1532.3	1337.8	1259.0	1357.3	1406.9	1635.9
25°	2296.7	2297.8	2237.9	2124.6	1930.6	1676.2	1431.1	1311.0	1393.3	1444.7	1688.4
27.5°	2497.5	2485.9	2430.0	2317.7	2103.7	1821.7	1543.9	1382.5	1446.7	1498.7	1757.4
30°	2737.8	2729.5	2664.9	2537.4	2295.8	1977.8	1672.8	1465.7	1515.8	1569.7	1847.9
32.5°	3020.4	3016.5	2949.4	2785.5	2517.5	2161.6	1824.0	1575.5	1618.8	1674.8	1977.8
35°	3352.0	3352.5	3273.2	3076.2	2760.1	2375.5	1995.8	1717.1	1744.3	1802.6	2132.3
37.5°	3556.2	3581.0	3551.4	3350.6	3034.9	2614.8	2218.5	1904.8	1887.2	1946.2	2298.2
40°	3600.0	3630.1	3724.0	3621.9	3342.3	2878.4	2415.9	2085.2	2063.3	2135.3	2511.7
42.5°	3538.7	3580.5	3779.0	3850.9	3668.6	3203.2	2681.4	2353.2	2325.5	2422.2	2777.2
45°	3502.3	3533.4	3762.9	3970.1	3951.6	3570.3	3019.3	2689.6	2679.4	2806.4	3083.6
47.5°	3439.1	3467.2	3688.0	3997.8	4117.9	3906.9	3425.5	3101.1	3121.0	3287.4	3429.3
50°	3473.1	3484.8	3604.4	3927.3	4166.1	4153.4	3879.1	3577.7	3645.7	3853.4	3820.7
52.5°	3468.2	3498.4	3594.6	3811.5	4172.3	4305.6	4326.1	4109.1	4252.6	4490.9	4255.1
55°	2803.9	2859.4	3480.4	3782.4	4194.7	4454.8	4723.8	4669.4	4936.8	5214.5	4745.2
57.5°	2677.5	2712.6	3056.8	3843.6	4313.4	4739.8	5166.3	5286.0	5733.3	6055.8	5342.4
60°	2652.7	2696.0	3052.4	3918.5	4554.1	5204.3	5822.3	6032.4	6702.5	7055.6	6034.8
62.5°	2575.4	2622.0	3023.7	3908.8	4895.9	5846.7	6662.2	6826.0	7621.6	7964.9	6614.0
65°	2330.3	2374.1	2789.8	3751.7	5126.4	6532.4	7656.2	7553.5	8347.2	8605.4	6902.9
66°	2162.5	2205.3	2605.6	3566.9	5072.9	6726.8	8008.2	7778.6	8509.5	8711.9	6846.4
67.5°	1855.6	1889.2	2247.6	3153.1	4788.4	6781.2	8304.3	7947.9	8526.6	8598.1	6524.1
70°	1172.4	1182.1	1460.8	2176.6	3624.8	5881.1	7853.6	7527.8	7823.4	7629.9	5469.3
72.5°	508.6	505.2	701.2	1107.2	2052.1	3946.2	6352.8	6211.4	6137.0	5695.4	3828.6
75°	283.1	286.9	364.3	514.0	834.0	1938.4	4155.8	3976.8	3357.8	2865.2	1736.0
77.5°	227.1	232.4	302.0	364.7	374.4	676.0	1944.6	1582.4	952.7	764.5	482.4
80°	179.4	189.1	263.6	284.0	252.4	278.7	628.3	502.4	376.9	345.8	249.9
82.5°	142.0	148.8	226.2	214.9	176.6	187.7	301.1	293.3	245.1	223.2	144.4
85°	102.1	114.8	185.8	161.9	115.7	126.4	199.9	191.6	140.6	114.8	63.7
87.5°	41.8	54.4	131.3	107.5	64.7	58.8	99.7	93.8	66.6	48.6	31.6
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°	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6	1466.6
2.5°	1465.2	1476.8	1492.0	1501.2	1506.0	1509.5	1514.8	1514.3	1515.8	1516.2	1518.2
5°	1474.9	1494.3	1516.2	1522.0	1522.0	1516.7	1511.4	1502.6	1499.2	1498.2	1499.2
7.5°	1500.2	1521.6	1540.6	1533.7	1519.2	1497.8	1470.1	1445.7	1432.6	1428.2	1427.2
10°	1532.3	1558.1	1565.8	1540.1	1497.3	1445.7	1390.8	1350.9	1328.1	1321.8	1319.8
12.5°	1571.2	1595.5	1584.9	1530.3	1451.1	1367.9	1292.1	1228.4	1180.7	1165.7	1164.6
15°	1614.0	1632.9	1595.5	1500.2	1382.0	1259.5	1124.3	1014.4	955.0	936.1	934.7
17.5°	1653.9	1663.6	1589.2	1447.7	1280.4	1082.0	902.5	818.0	797.5	802.4	803.3
20°	1687.9	1687.9	1567.8	1372.3	1120.4	848.1	734.8	733.4	747.9	762.5	765.4
22.5°	1725.3	1703.0	1530.3	1265.8	893.8	694.0	677.4	691.0	707.6	723.6	726.0
25°	1771.5	1715.2	1478.3	1104.4	702.7	630.2	636.6	647.7	656.0	666.2	667.7
27.5°	1823.1	1730.7	1409.7	882.1	609.8	590.3	595.3	599.1	598.1	602.0	603.0
30°	1884.9	1748.7	1315.9	689.6	571.4	556.3	547.6	544.1	544.1	550.4	552.9
32.5°	1967.5	1775.4	1181.2	590.9	552.9	532.0	503.8	491.1	496.0	517.4	522.3
35°	2058.5	1804.2	998.8	557.3	549.0	520.8	477.0	453.7	454.2	474.1	480.5
37.5°	2157.7	1840.6	798.9	551.0	557.8	521.3	463.0	430.9	417.7	417.7	420.1
40°	2284.6	1878.0	646.8	555.4	576.2	527.1	455.6	412.9	375.9	376.9	378.8
42.5°	2450.0	1910.2	565.1	564.6	598.6	534.9	455.2	389.0	356.9	378.8	398.7
45°	2633.7	1926.2	529.1	572.9	616.6	539.8	447.3	385.1	359.4	424.5	462.5
47.5°	2845.2	1916.9	509.1	575.7	621.0	539.8	438.6	394.3	376.3	491.6	535.9
50°	3077.2	1890.2	489.7	569.9	619.5	538.8	446.9	403.7	382.7	503.3	534.0
52.5°	3350.1	1867.8	469.2	557.3	609.3	533.5	456.6	399.8	362.7	457.6	478.9
55°	3661.2	1874.1	446.4	539.3	593.3	523.2	453.3	384.1	341.9	403.1	416.2
57.5°	4059.1	1949.5	419.2	516.5	571.4	506.3	441.1	376.9	335.5	365.7	373.5
60°	4503.0	2080.8	385.1	493.6	544.1	478.9	431.8	380.2	338.5	362.7	366.6
62.5°	4828.8	2157.2	356.0	460.0	507.2	448.9	420.1	384.6	346.3	373.0	372.0
65°	4917.3	2031.7	319.5	410.9	457.2	417.3	405.6	389.5	349.6	381.3	376.9
66°	4793.3	1896.6	303.4	388.1	431.8	401.7	398.2	389.0	348.2	382.2	374.9
67.5°	4492.3	1619.3	275.7	354.6	391.5	378.3	386.6	384.6	344.3	381.3	371.0
70°	3663.7	1104.9	235.9	295.2	325.8	333.1	364.3	369.1	331.6	364.3	341.9
72.5°	2559.8	673.0	208.6	229.0	263.6	284.0	333.6	347.7	314.7	318.0	296.7
75°	1237.2	357.4	189.1	177.5	204.7	237.3	296.7	318.5	287.9	266.0	258.2
77.5°	385.7	218.3	160.5	143.0	160.5	191.6	248.0	279.2	256.2	222.7	219.8
80°	207.1	160.5	123.5	114.8	126.9	150.3	195.0	232.9	220.2	199.9	178.5
82.5°	136.7	104.0	91.5	89.0	96.8	114.8	145.0	193.0	193.0	171.1	124.5
85°	70.5	63.7	62.7	62.7	67.6	76.3	98.7	148.8	158.6	90.4	74.9
87.5°	35.0	36.5	34.1	35.5	38.0	37.4	47.2	74.9	89.5	54.9	45.7
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)