

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: P192280

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192280
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-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 10061 lumens
Efficiency: N/A
Efficacy: 118.4 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

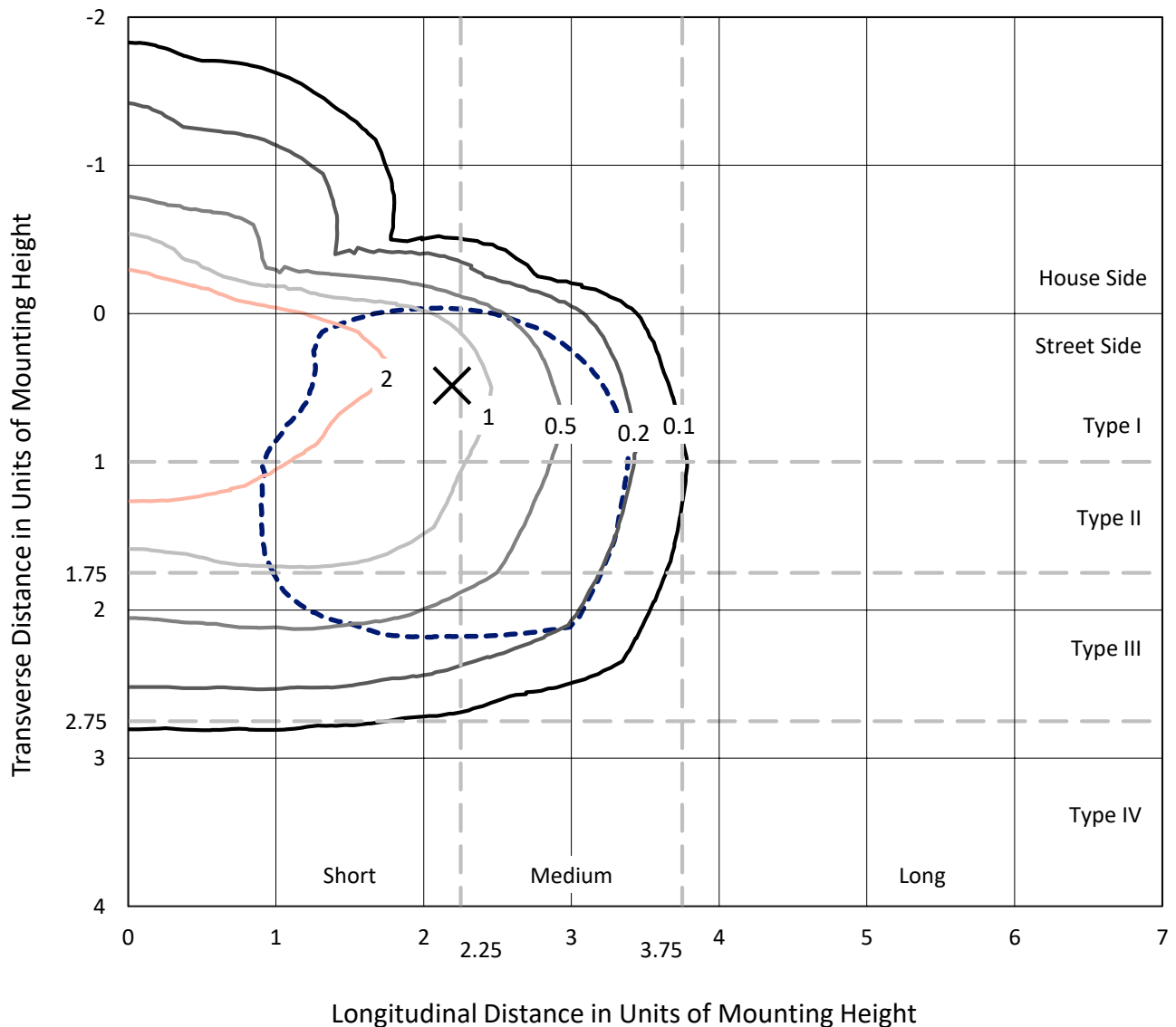


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Iso-Footcandle Lines of Horizontal Illumination

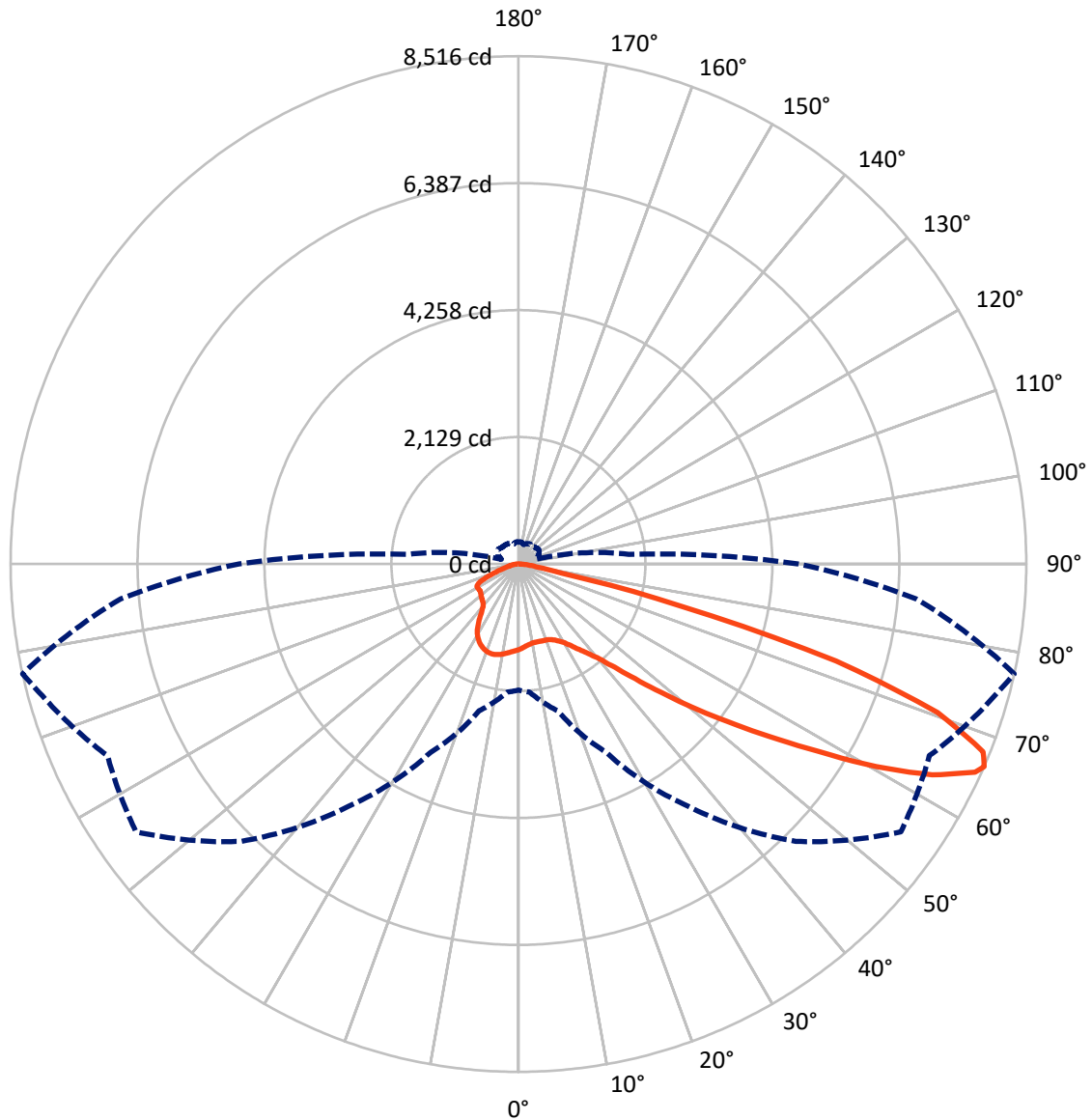
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	1718.9	0.0	1718.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	8342.1	0.0	8342.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	10061.0	0.0	10061.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.3
10°-20°	361.4	3.6
20°-30°	616.7	6.1
30°-40°	987.3	9.8
40°-50°	1525.3	15.2
50°-60°	2163.3	21.5
60°-70°	2894.0	28.8
70°-80°	1256.8	12.5
80°-90°	128.2	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°	10061.0	100.0
0°-180°	10061.0	100.0



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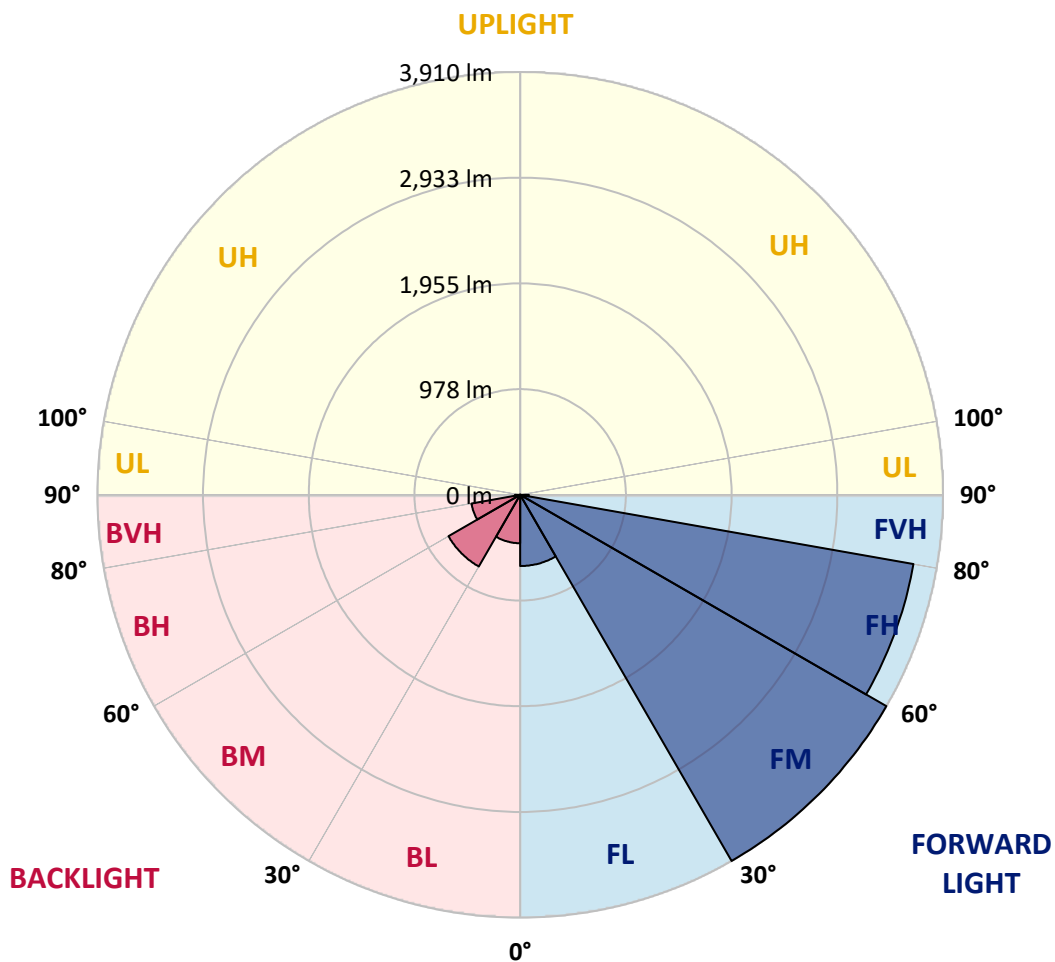
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	658.5	6.5			
FM	(30°-60°)	3910.2	38.9			
FH	(60°-80°)	3693.0	36.7			G2/5000
FVH	(80°-90°)	80.4	0.8			G1/100
BL	(0°-30°)	447.7	4.4	B1/500		
BM	(30°-60°)	765.7	7.6	B1/1000		
BH	(60°-80°)	457.8	4.5	B1/500		G1/500
BVH	(80°-90°)	47.8	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°	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7
2.5°	1268.3	1276.9	1284.0	1290.7	1304.0	1325.8	1351.0	1371.5	1400.9	1406.6	1422.3
5°	1151.8	1151.8	1157.5	1167.5	1185.6	1218.4	1252.6	1298.3	1362.4	1377.6	1419.5
7.5°	1095.3	1095.7	1099.1	1107.6	1123.3	1153.3	1190.8	1244.5	1331.5	1356.7	1428.0
10°	1116.2	1111.4	1104.3	1100.0	1102.4	1120.0	1155.6	1215.5	1312.5	1344.8	1447.1
12.5°	1233.1	1224.1	1199.4	1166.6	1135.2	1122.4	1143.3	1201.8	1304.4	1342.0	1472.2
15°	1424.2	1420.4	1374.3	1306.3	1230.3	1166.6	1152.3	1196.5	1305.4	1345.3	1502.2
17.5°	1663.8	1658.6	1597.7	1498.9	1374.8	1250.7	1184.2	1200.8	1308.7	1351.0	1531.2
20°	1905.8	1889.6	1824.0	1706.1	1546.9	1365.3	1236.9	1211.7	1313.0	1357.2	1561.6
22.5°	2086.4	2073.1	2014.2	1899.6	1716.1	1497.9	1307.8	1230.8	1326.8	1375.3	1599.2
25°	2245.2	2246.2	2187.7	2076.9	1887.3	1638.6	1399.0	1281.6	1362.0	1412.3	1650.5
27.5°	2441.5	2430.1	2375.5	2265.7	2056.5	1780.8	1509.3	1351.5	1414.2	1465.1	1718.0
30°	2676.4	2668.3	2605.1	2480.5	2244.3	1933.4	1635.3	1432.8	1481.8	1534.5	1806.4
32.5°	2952.6	2948.8	2883.2	2723.0	2461.0	2113.1	1783.1	1540.2	1582.5	1637.2	1933.4
35°	3276.8	3277.3	3199.8	3007.2	2698.2	2322.2	1951.0	1678.6	1705.2	1762.2	2084.5
37.5°	3476.4	3500.7	3471.7	3275.4	2966.8	2556.1	2168.7	1862.1	1844.9	1902.5	2246.6
40°	3519.2	3548.7	3640.4	3540.6	3267.3	2813.8	2361.7	2038.4	2017.0	2087.4	2455.3
42.5°	3459.3	3500.2	3694.2	3764.5	3586.3	3131.3	2621.2	2300.4	2273.3	2367.9	2714.9
45°	3423.7	3454.1	3678.5	3881.0	3862.9	3490.2	2951.6	2629.3	2619.3	2743.4	3014.4
47.5°	3361.9	3389.4	3605.3	3908.1	4025.5	3819.2	3348.6	3031.5	3051.0	3213.6	3352.4
50°	3395.2	3406.6	3523.5	3839.2	4072.6	4060.2	3792.1	3497.4	3563.9	3766.9	3735.0
52.5°	3390.4	3419.9	3514.0	3726.0	4078.7	4209.0	4229.0	4016.9	4157.2	4390.1	4159.6
55°	2741.0	2795.2	3402.3	3697.5	4100.6	4354.9	4617.8	4564.6	4826.0	5097.5	4638.7
57.5°	2617.4	2651.7	2988.2	3757.4	4216.6	4633.5	5050.4	5167.4	5604.7	5919.9	5222.5
60°	2593.2	2635.5	2983.9	3830.6	4451.9	5087.5	5691.7	5897.1	6552.1	6897.3	5899.4
62.5°	2517.6	2563.2	2955.9	3821.1	4786.1	5715.5	6512.7	6672.9	7450.6	7786.2	6465.6
65°	2278.0	2320.8	2727.2	3667.5	5011.4	6385.8	7484.4	7384.0	8159.9	8412.3	6748.0
66°	2114.0	2155.8	2547.1	3486.9	4959.1	6575.9	7828.5	7604.1	8318.6	8516.4	6692.8
67.5°	1814.0	1846.8	2197.2	3082.4	4681.0	6629.1	8118.0	7769.6	8335.3	8405.2	6377.7
70°	1146.1	1155.6	1428.0	2127.8	3543.5	5749.2	7677.4	7358.9	7647.9	7458.7	5346.6
72.5°	497.2	493.9	685.5	1082.4	2006.1	3857.7	6210.3	6072.0	5999.3	5567.6	3742.7
75°	276.7	280.5	356.1	502.5	815.3	1894.9	4062.6	3887.6	3282.5	2800.9	1697.1
77.5°	222.0	227.2	295.2	356.5	366.0	660.8	1901.0	1546.9	931.3	747.3	471.6
80°	175.4	184.9	257.7	277.6	246.7	272.4	614.2	491.1	368.4	338.0	244.3
82.5°	138.8	145.5	221.1	210.1	172.6	183.5	294.3	286.7	239.6	218.2	141.2
85°	99.8	112.2	181.6	158.3	113.1	123.6	195.4	187.3	137.4	112.2	62.3
87.5°	40.9	53.2	128.4	105.1	63.2	57.5	97.5	91.7	65.1	47.5	30.9
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°	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7	1433.7
2.5°	1432.3	1443.7	1458.5	1467.5	1472.2	1475.6	1480.8	1480.3	1481.8	1482.2	1484.1
5°	1441.8	1460.8	1482.2	1487.9	1487.9	1482.7	1477.5	1468.9	1465.6	1464.6	1465.6
7.5°	1466.5	1487.5	1506.0	1499.3	1485.1	1464.2	1437.1	1413.3	1400.5	1396.2	1395.2
10°	1497.9	1523.1	1530.7	1505.5	1463.7	1413.3	1359.6	1320.6	1298.3	1292.1	1290.2
12.5°	1535.9	1559.7	1549.3	1496.0	1418.5	1337.2	1263.1	1200.8	1154.2	1139.5	1138.5
15°	1577.8	1596.3	1559.7	1466.5	1351.0	1231.2	1099.1	991.6	933.6	915.1	913.7
17.5°	1616.8	1626.3	1553.5	1415.2	1251.7	1057.7	882.3	799.6	779.6	784.4	785.3
20°	1650.0	1650.0	1532.6	1341.5	1095.3	829.1	718.3	716.9	731.1	745.4	748.2
22.5°	1686.6	1664.8	1496.0	1237.4	873.7	678.4	662.2	675.5	691.7	707.4	709.7
25°	1731.8	1676.7	1445.1	1079.6	686.9	616.1	622.3	633.2	641.3	651.3	652.7
27.5°	1782.2	1691.9	1378.1	862.3	596.1	577.1	581.9	585.7	584.7	588.5	589.5
30°	1842.6	1709.5	1286.4	674.1	558.6	543.8	535.3	531.9	531.9	538.1	540.5
32.5°	1923.4	1735.6	1154.7	577.6	540.5	520.1	492.5	480.1	484.9	505.8	510.6
35°	2012.3	1763.7	976.4	544.8	536.7	509.1	466.3	443.5	444.0	463.5	469.7
37.5°	2109.3	1799.3	781.0	538.6	545.3	509.6	452.6	421.2	408.3	408.3	410.7
40°	2233.3	1835.9	632.3	542.9	563.3	515.3	445.4	403.6	367.5	368.4	370.3
42.5°	2395.0	1867.3	552.4	551.9	585.2	522.9	445.0	380.3	348.9	370.3	389.8
45°	2574.6	1883.0	517.2	560.0	602.8	527.7	437.3	376.5	351.3	415.0	452.1
47.5°	2781.4	1873.9	497.7	562.8	607.1	527.7	428.8	385.5	367.9	480.6	523.9
50°	3008.2	1847.8	478.7	557.1	605.6	526.7	436.9	394.6	374.1	492.0	522.0
52.5°	3274.9	1825.9	458.7	544.8	595.6	521.5	446.4	390.8	354.6	447.3	468.2
55°	3579.1	1832.1	436.4	527.2	580.0	511.5	443.1	375.5	334.2	394.1	406.9
57.5°	3968.0	1905.8	409.8	504.9	558.6	494.9	431.2	368.4	328.0	357.5	365.1
60°	4402.0	2034.1	376.5	482.5	531.9	468.2	422.1	371.7	330.9	354.6	358.4
62.5°	4720.5	2108.8	348.0	449.7	495.8	438.8	410.7	376.0	338.5	364.6	363.7
65°	4807.0	1986.1	312.3	401.7	446.9	407.9	396.5	380.8	341.8	372.7	368.4
66°	4685.8	1854.0	296.6	379.4	422.1	392.7	389.3	380.3	340.4	373.6	366.5
67.5°	4391.5	1583.0	269.5	346.6	382.7	369.8	377.9	376.0	336.6	372.7	362.7
70°	3581.5	1080.1	230.6	288.6	318.5	325.6	356.1	360.8	324.2	356.1	334.2
72.5°	2502.4	657.9	203.9	223.9	257.7	277.6	326.1	339.9	307.6	310.9	290.0
75°	1209.4	349.4	184.9	173.5	200.1	232.0	290.0	311.4	281.4	260.0	252.4
77.5°	377.0	213.4	156.9	139.8	156.9	187.3	242.4	272.9	250.5	217.7	214.9
80°	202.5	156.9	120.7	112.2	124.1	146.9	190.6	227.7	215.3	195.4	174.5
82.5°	133.6	101.7	89.4	87.0	94.6	112.2	141.7	188.7	188.7	167.3	121.7
85°	68.9	62.3	61.3	61.3	66.1	74.6	96.5	145.5	155.0	88.4	73.2
87.5°	34.2	35.7	33.3	34.7	37.1	36.6	46.1	73.2	87.5	53.7	44.7
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)