

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: P192879

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5648.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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



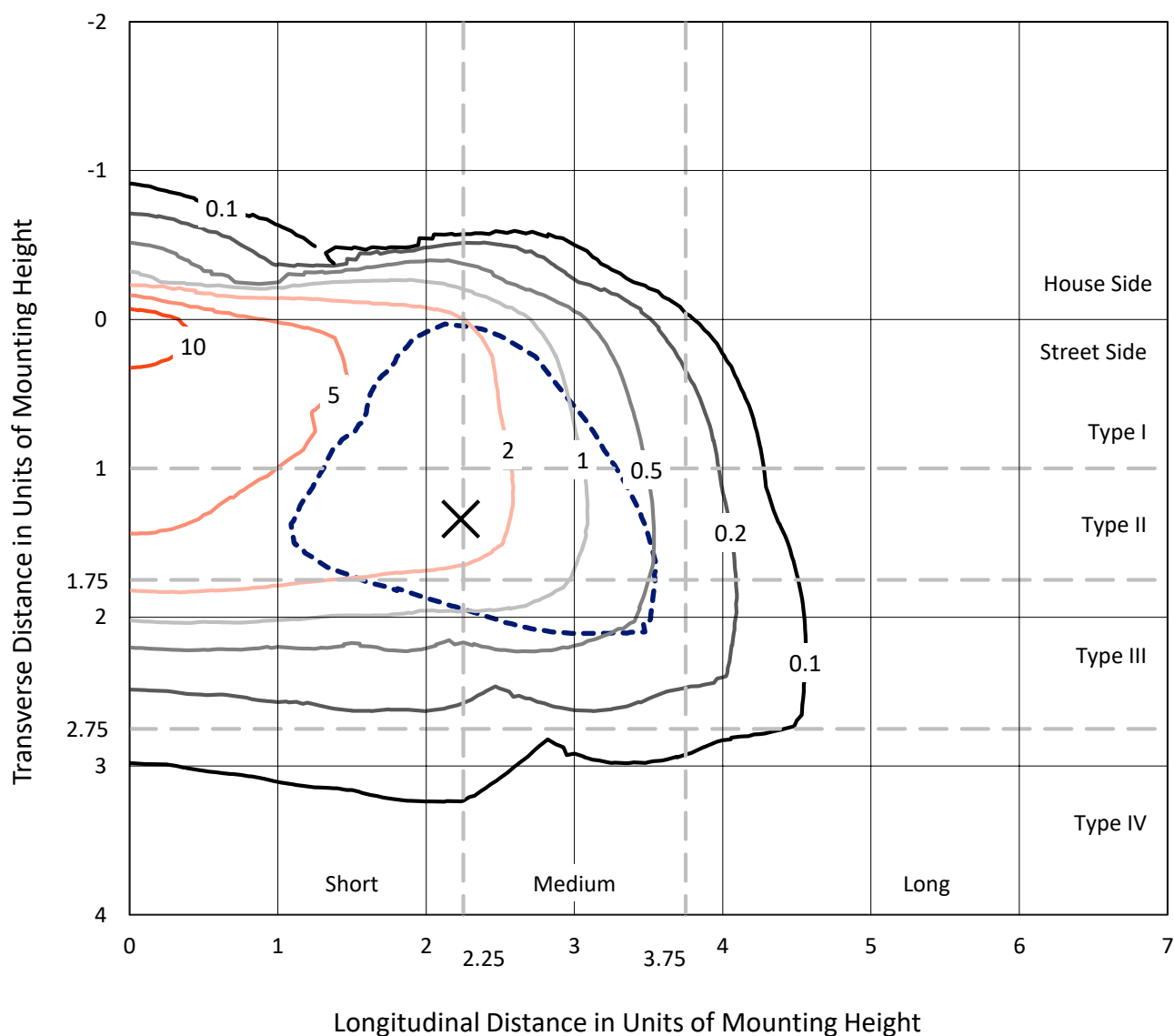
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

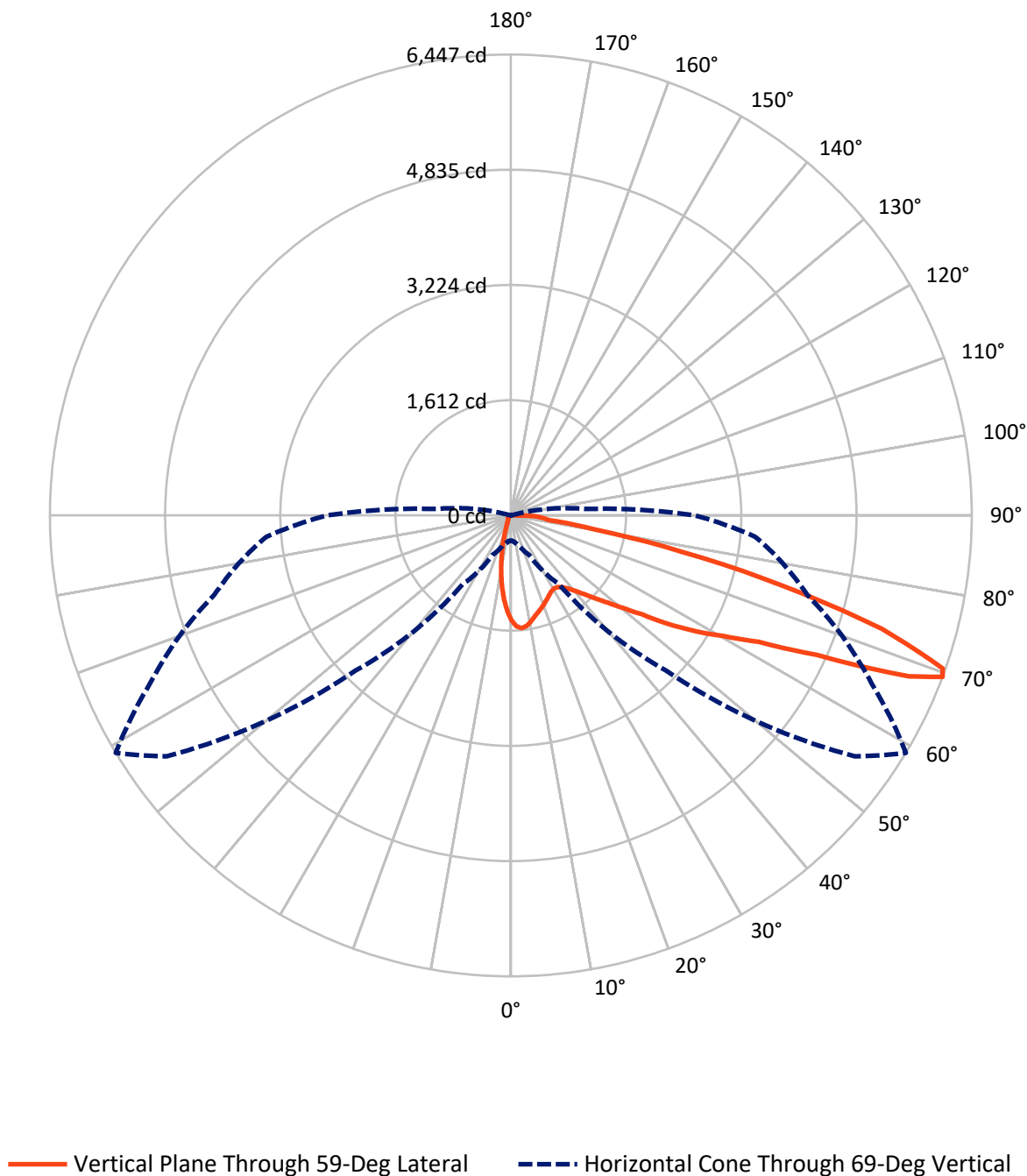


Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.0	0.0	460.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5188.7	0.0	5188.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	5648.7	0.0	5648.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	2.1
10°-20°	246.6	4.4
20°-30°	331.8	5.9
30°-40°	481.8	8.5
40°-50°	802.2	14.2
50°-60°	1251.5	22.2
60°-70°	1548.6	27.4
70°-80°	784.8	13.9
80°-90°	82.1	1.5
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°	5648.7	100.0
0°-180°	5648.7	100.0

Coefficient of Utilization



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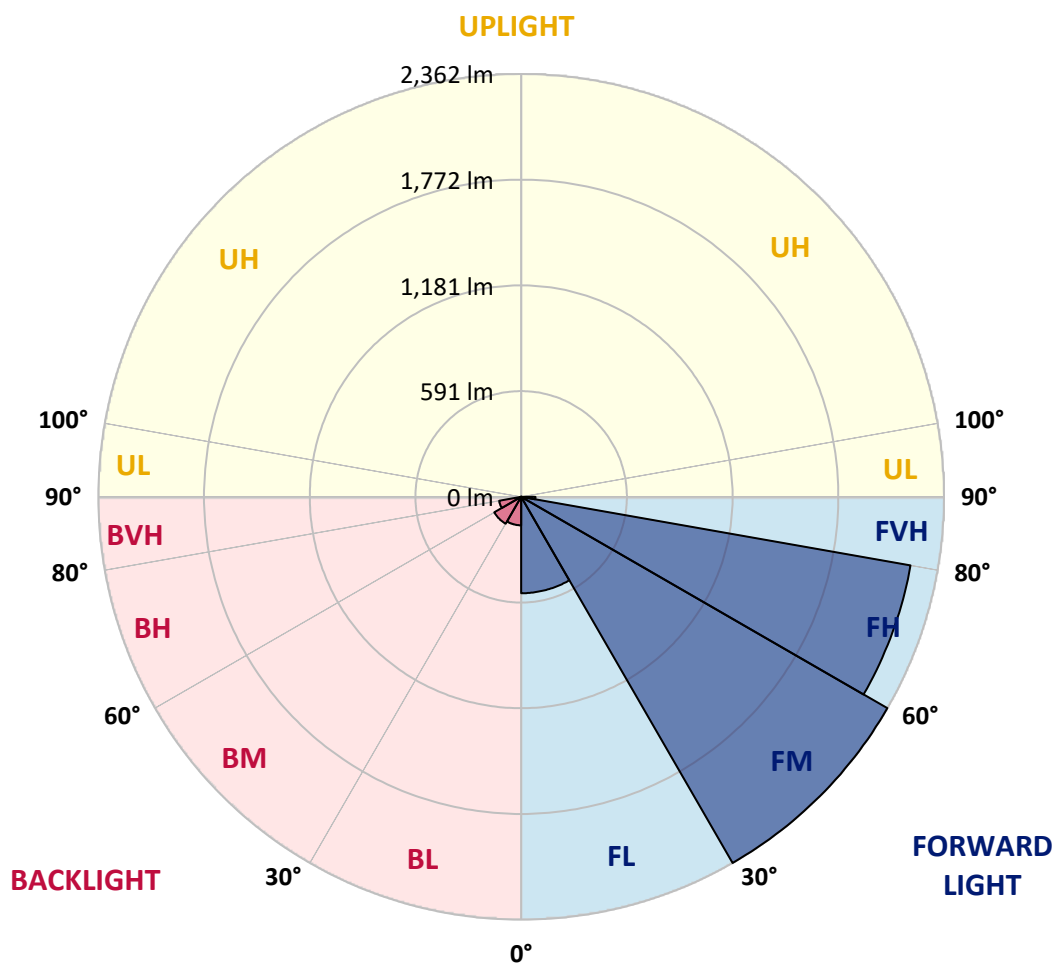
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	538.5	9.5			
FM	(30°-60°)	2362.1	41.8			
FH	(60°-80°)	2208.4	39.1			G2/5000
FVH	(80°-90°)	79.6	1.4			G1/100
BL	(0°-30°)	159.2	2.8	B1/500		
BM	(30°-60°)	173.3	3.1	B0/220		
BH	(60°-80°)	124.9	2.2	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
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°	59°	65°	75°	85°
0°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1611.5	1610.8	1603.8	1600.6	1594.8	1582.7	1563.8	1554.0	1538.1	1510.2	1472.9
5°	1596.8	1604.5	1608.7	1609.0	1613.1	1608.7	1591.7	1583.3	1561.4	1516.6	1449.6
7.5°	1497.1	1500.0	1511.8	1522.0	1541.8	1560.7	1566.8	1563.3	1550.2	1502.2	1413.0
10°	1390.5	1393.3	1407.4	1420.8	1447.5	1476.6	1507.3	1513.7	1519.1	1481.8	1378.0
12.5°	1298.4	1301.3	1315.7	1333.3	1364.5	1400.3	1447.9	1458.5	1482.4	1462.3	1349.9
15°	1219.3	1220.5	1234.5	1256.3	1293.6	1339.6	1393.6	1410.5	1447.2	1448.6	1325.4
17.5°	1151.8	1155.0	1163.6	1184.4	1225.3	1282.1	1345.1	1369.3	1412.5	1437.1	1301.3
20°	1110.6	1113.8	1113.5	1125.1	1161.8	1222.4	1296.5	1325.6	1378.0	1425.3	1279.9
22.5°	1102.7	1102.7	1094.3	1092.7	1114.5	1165.2	1246.1	1281.5	1346.9	1420.2	1264.9
25°	1131.1	1129.7	1109.0	1092.0	1093.0	1123.4	1197.2	1239.3	1320.8	1423.6	1256.9
27.5°	1191.2	1189.5	1163.3	1131.1	1105.1	1104.8	1160.2	1205.4	1300.0	1440.2	1260.1
30°	1274.2	1273.5	1245.1	1204.5	1157.6	1114.5	1147.3	1188.5	1286.6	1470.3	1267.4
32.5°	1364.8	1363.9	1342.5	1299.7	1240.3	1157.6	1160.8	1195.3	1290.5	1510.2	1285.3
35°	1461.1	1459.3	1450.2	1412.8	1347.2	1237.2	1204.8	1231.7	1314.7	1569.9	1320.5
37.5°	1565.1	1566.8	1573.5	1537.8	1469.0	1348.6	1278.7	1296.8	1363.5	1651.0	1377.6
40°	1718.7	1718.4	1720.8	1673.8	1607.6	1485.0	1381.8	1387.6	1445.4	1758.7	1464.5
42.5°	1997.6	1978.1	1919.0	1823.2	1756.8	1640.8	1511.8	1505.7	1545.4	1892.0	1586.2
45°	2372.3	2330.8	2177.4	1993.8	1908.9	1816.6	1671.8	1652.3	1677.5	2051.9	1736.3
47.5°	2694.7	2651.5	2434.7	2171.4	2070.1	1983.3	1859.4	1824.2	1832.5	2231.2	1926.7
50°	2804.1	2783.1	2593.7	2326.0	2226.3	2193.2	2076.8	2034.1	2022.3	2438.4	2147.5
52.5°	2766.1	2764.6	2638.4	2426.3	2369.4	2410.4	2350.6	2301.1	2257.7	2656.9	2372.0
55°	2705.2	2713.1	2656.6	2514.2	2512.2	2608.7	2724.9	2683.7	2557.9	2894.3	2565.5
57.5°	2536.8	2571.0	2646.4	2680.2	2758.8	2857.4	3036.8	3061.0	2912.1	3075.9	2726.2
60°	2058.3	2133.4	2380.0	2704.1	3076.6	3322.6	3412.9	3433.7	3202.8	3227.1	2943.1
62.5°	1461.1	1537.8	1850.5	2398.8	3081.4	3933.7	3973.5	3892.2	3522.8	3451.0	3317.1
65°	775.5	834.6	1090.2	1731.5	2671.6	4075.5	4953.9	4711.0	4087.6	3891.5	3800.5
67.5°	396.7	414.6	516.1	847.5	1836.6	3620.0	5832.6	6003.5	5060.9	4328.5	3777.1
69°	351.0	361.5	429.0	612.6	1176.0	3066.2	5875.4	6447.2	5570.4	4292.0	3432.5
70°	339.9	349.1	410.5	554.5	919.3	2571.3	5711.5	6408.2	5700.6	4153.4	3175.0
72.5°	288.5	296.4	365.4	490.0	747.2	1276.3	4639.5	5430.0	5115.5	3459.9	2298.2
75°	193.0	219.2	350.7	459.3	695.1	725.1	3058.7	3924.0	3645.2	2333.7	1197.2
77.5°	46.3	49.8	99.0	365.4	635.7	638.2	1573.2	2439.4	1989.6	831.8	283.0
80°	24.9	23.9	27.8	72.5	591.8	599.0	708.1	1184.1	710.4	138.0	93.3
82.5°	17.6	16.6	17.9	30.4	186.2	545.5	512.3	536.0	294.5	53.0	41.8
85°	6.3	6.1	10.0	27.5	58.5	313.7	526.4	442.1	238.6	24.2	30.7
87.5°	2.1	1.9	3.9	15.0	17.9	133.6	324.8	334.2	94.0	14.6	14.4
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°	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3	1470.3
2.5°	1457.2	1437.5	1400.9	1363.5	1329.1	1287.6	1266.9	1246.3	1237.7	1234.5	1219.6
5°	1415.0	1381.5	1304.2	1226.6	1155.0	1079.1	1028.9	988.6	965.0	953.5	935.3
7.5°	1361.1	1306.0	1188.8	1069.1	957.6	847.8	766.2	703.6	660.6	639.8	620.9
10°	1308.7	1235.5	1068.8	905.5	754.1	608.5	496.0	414.6	362.5	338.6	323.3
12.5°	1261.7	1166.8	952.8	746.1	556.1	385.5	271.2	206.4	174.0	162.9	157.5
15°	1219.9	1103.6	843.3	594.8	376.6	220.3	148.1	126.2	121.1	121.1	120.4
17.5°	1180.2	1041.6	737.5	452.7	236.3	134.8	112.7	110.0	110.0	111.1	111.1
20°	1142.2	982.6	635.4	324.8	148.8	107.0	101.9	101.3	101.9	103.5	103.5
22.5°	1109.6	928.8	539.8	223.0	110.6	96.4	94.0	93.0	93.3	94.2	94.8
25°	1085.4	883.5	449.7	151.1	95.2	87.9	85.0	83.4	82.1	82.1	82.7
27.5°	1070.0	845.2	362.5	110.0	85.5	79.9	75.4	72.8	69.9	68.4	69.0
30°	1058.8	808.7	280.8	89.7	76.7	70.9	65.1	60.9	56.9	54.9	55.6
32.5°	1054.7	779.3	209.9	79.2	68.8	62.3	55.2	49.8	45.4	43.8	44.0
35°	1066.0	756.1	153.6	71.6	62.3	54.3	46.3	40.2	36.7	35.7	36.0
37.5°	1095.4	743.6	114.9	65.1	56.5	47.6	38.7	32.9	30.7	30.7	31.0
40°	1150.8	743.3	92.4	60.6	51.5	41.2	31.9	27.8	26.6	27.1	27.5
42.5°	1232.0	760.2	80.6	56.5	47.0	35.2	26.6	23.6	23.3	23.9	24.2
45°	1342.8	791.1	74.1	53.0	42.2	29.4	22.4	20.4	20.4	21.5	21.8
47.5°	1478.6	836.6	68.8	49.5	37.3	24.6	19.1	17.9	18.2	19.1	19.4
50°	1642.1	893.7	63.3	45.7	33.9	20.4	16.6	15.7	16.0	17.3	17.6
52.5°	1828.4	970.7	58.8	42.2	29.4	16.9	14.1	13.4	14.1	15.3	15.7
55°	1988.1	1039.7	53.3	39.4	23.6	14.1	11.5	11.5	12.1	13.7	14.1
57.5°	2141.7	1111.9	48.5	33.9	18.6	11.2	9.7	10.0	10.8	12.4	12.8
60°	2367.2	1234.2	42.8	28.4	14.1	9.0	7.9	8.3	9.7	11.2	11.5
62.5°	2750.2	1420.5	37.0	23.6	10.8	7.0	6.3	7.0	8.6	10.5	10.8
65°	3095.8	1496.2	30.4	19.7	8.3	5.5	5.5	6.3	8.3	10.3	10.5
67.5°	2903.2	1259.4	23.6	15.7	6.3	4.2	4.5	6.1	7.9	10.3	10.5
69°	2567.5	1029.8	20.1	12.4	5.5	3.9	4.2	6.1	7.9	10.0	10.3
70°	2305.9	869.4	17.9	10.5	4.8	3.9	4.2	5.8	7.9	10.0	10.3
72.5°	1544.4	469.6	14.4	7.6	4.5	3.5	3.5	5.8	7.6	9.7	10.0
75°	663.8	129.7	11.5	5.5	3.9	3.2	3.2	5.5	7.3	9.3	10.0
77.5°	121.4	32.9	9.3	4.8	3.9	3.2	2.8	5.1	7.0	9.0	9.3
80°	48.2	16.3	7.3	4.2	3.5	2.8	2.5	4.8	6.7	8.6	9.0
82.5°	29.1	9.3	6.1	3.9	3.5	2.5	2.1	4.2	6.3	8.3	8.6
85°	23.6	6.3	4.8	3.9	3.2	2.5	1.9	3.9	5.8	7.9	8.3
87.5°	11.5	4.5	4.5	3.5	3.2	2.5	1.9	3.5	5.5	7.6	7.9
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)