

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: P191139

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191139
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-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 5975.1 lumens
Efficiency: N/A
Efficacy: 89.2 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

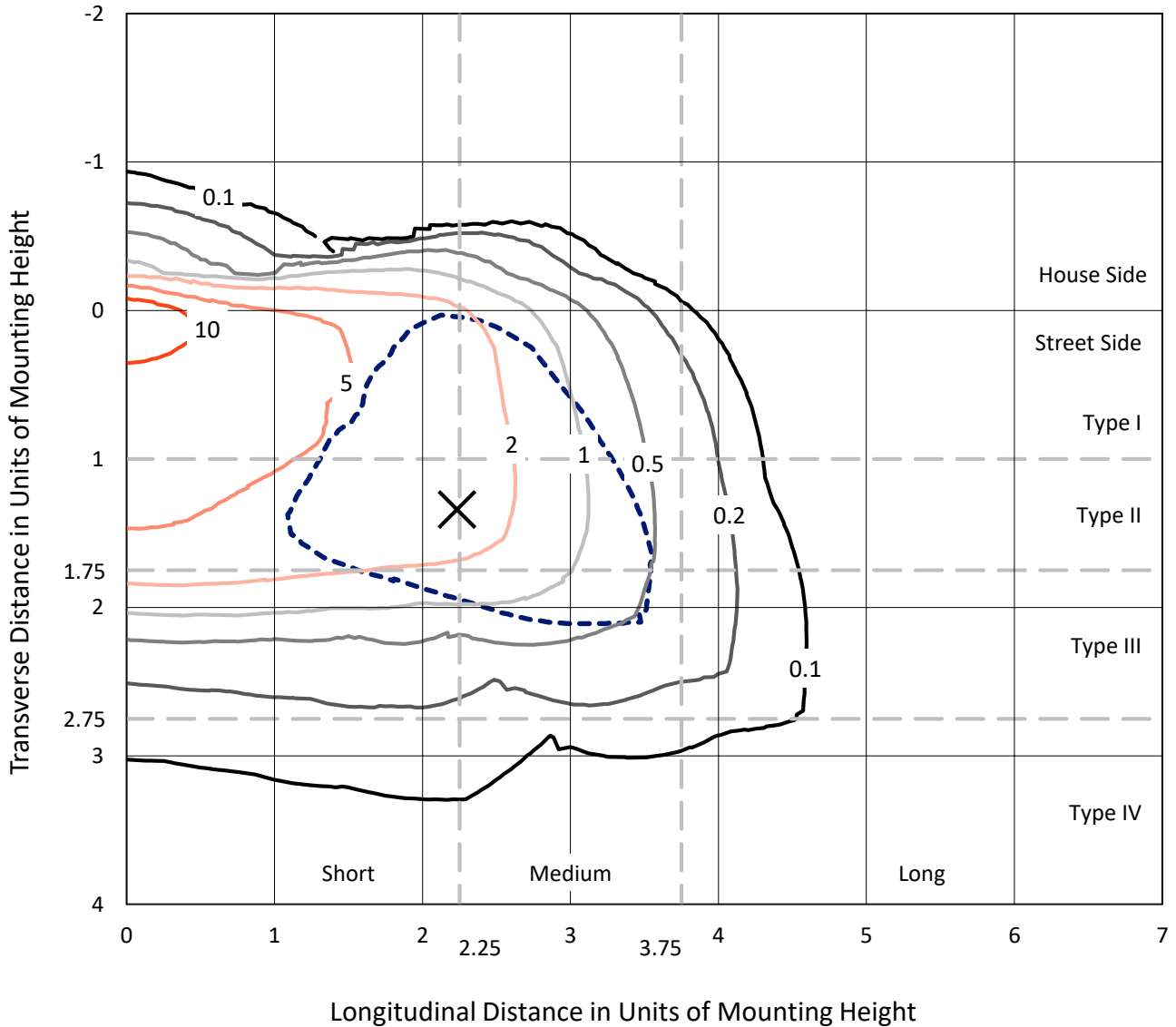


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Iso-Footcandle Lines of Horizontal Illumination

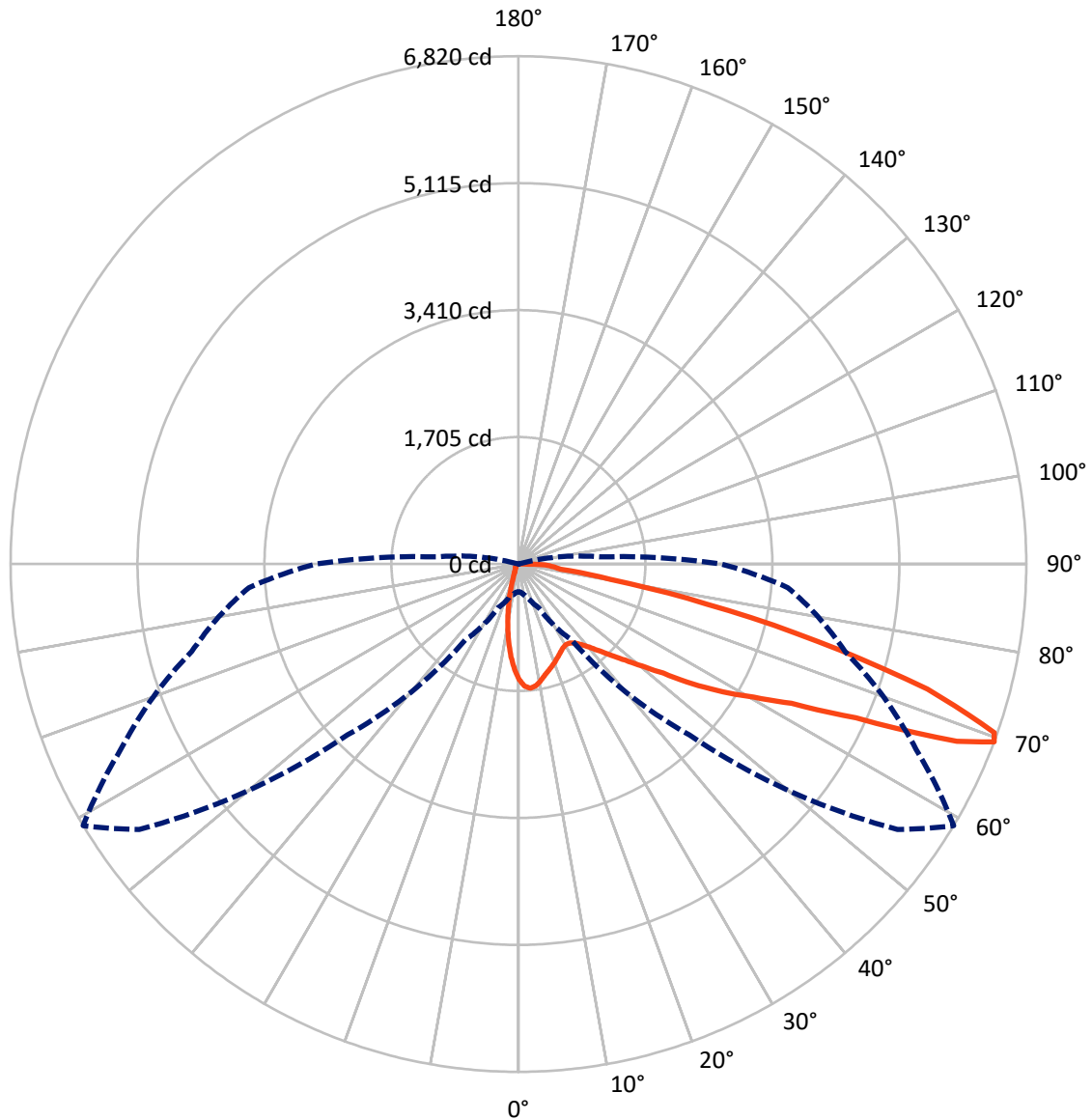
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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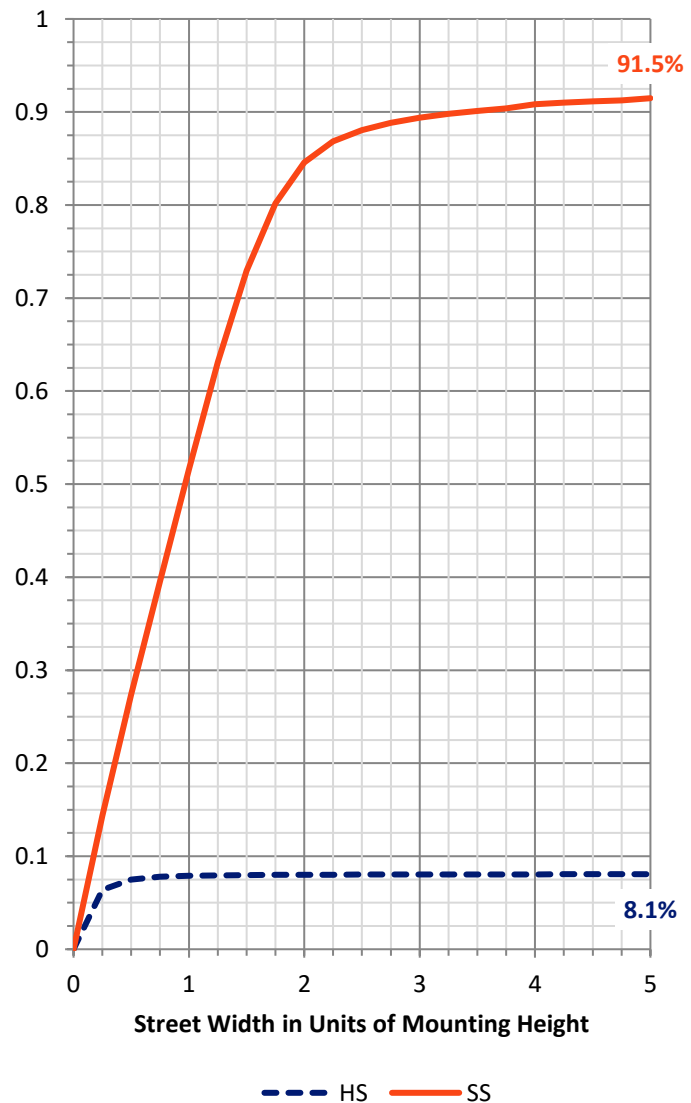
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.6	0.0	486.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5488.5	0.0	5488.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	5975.1	0.0	5975.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.1
10°-20°	260.8	4.4
20°-30°	351.0	5.9
30°-40°	509.6	8.5
40°-50°	848.6	14.2
50°-60°	1323.7	22.2
60°-70°	1638.0	27.4
70°-80°	830.1	13.9
80°-90°	86.9	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°	5975.1	100.0
0°-180°	5975.1	100.0



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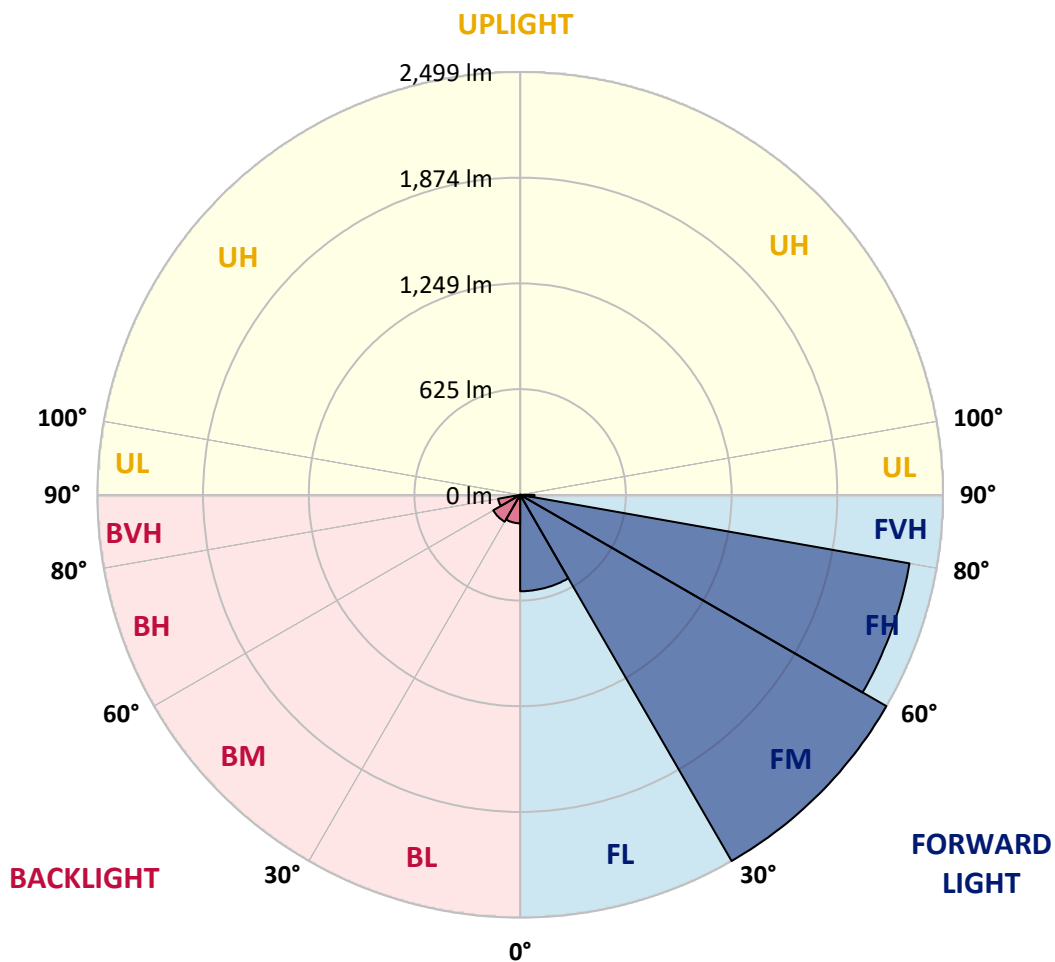
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.7	9.5			
FM	(30°-60°)	2498.6	41.8			
FH	(60°-80°)	2336.0	39.1			G2/5000
FVH	(80°-90°)	84.2	1.4			G1/100
BL	(0°-30°)	168.4	2.8	B1/500		
BM	(30°-60°)	183.3	3.1	B0/220		
BH	(60°-80°)	132.2	2.2	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1704.5	1703.9	1696.5	1693.1	1686.9	1674.2	1654.2	1643.8	1626.9	1597.4	1558.0
5°	1689.0	1697.2	1701.5	1701.9	1706.3	1701.5	1683.6	1674.9	1651.6	1604.2	1533.3
7.5°	1583.6	1586.6	1599.2	1609.9	1630.9	1650.8	1657.3	1653.5	1639.7	1589.1	1494.7
10°	1470.8	1473.8	1488.7	1502.8	1531.3	1561.9	1594.4	1601.2	1607.0	1567.4	1457.6
12.5°	1373.4	1376.5	1391.7	1410.2	1443.4	1481.2	1531.6	1542.7	1568.1	1546.8	1427.8
15°	1289.6	1291.0	1305.9	1328.8	1368.4	1417.0	1474.2	1492.1	1530.9	1532.3	1401.9
17.5°	1218.3	1221.7	1230.9	1252.8	1296.1	1356.2	1422.8	1448.5	1494.0	1520.1	1376.5
20°	1174.8	1178.1	1177.8	1190.0	1228.9	1293.0	1371.5	1402.2	1457.6	1507.6	1353.9
22.5°	1166.4	1166.4	1157.6	1155.8	1178.8	1232.6	1318.1	1355.5	1424.8	1502.2	1338.0
25°	1196.4	1195.0	1173.1	1155.2	1156.2	1188.3	1266.3	1310.9	1397.1	1505.9	1329.5
27.5°	1260.0	1258.2	1230.5	1196.4	1169.0	1168.7	1227.1	1275.1	1375.2	1523.5	1332.9
30°	1347.7	1347.1	1317.0	1274.1	1224.5	1178.8	1213.6	1257.2	1360.9	1555.2	1340.7
32.5°	1443.7	1442.7	1420.1	1374.8	1311.9	1224.5	1227.8	1264.4	1365.0	1597.4	1359.6
35°	1545.5	1543.7	1533.9	1494.4	1425.2	1308.6	1274.5	1302.8	1390.7	1660.7	1396.7
37.5°	1655.5	1657.3	1664.3	1626.5	1553.9	1426.5	1352.5	1371.8	1442.4	1746.5	1457.2
40°	1818.1	1817.8	1820.1	1770.4	1700.6	1570.7	1461.6	1467.7	1528.9	1860.3	1549.2
42.5°	2113.0	2092.4	2029.9	1928.6	1858.3	1735.6	1599.2	1592.7	1634.7	2001.2	1677.8
45°	2509.4	2465.4	2303.3	2109.0	2019.1	1921.5	1768.4	1747.8	1774.5	2170.5	1836.7
47.5°	2850.2	2804.6	2575.3	2296.8	2189.7	2097.9	1966.7	1929.6	1938.4	2360.0	2038.0
50°	2966.1	2943.8	2743.6	2460.4	2354.9	2319.8	2196.9	2151.6	2139.1	2579.3	2271.5
52.5°	2925.9	2924.3	2790.8	2566.5	2506.3	2549.6	2486.4	2434.0	2388.1	2810.5	2509.0
55°	2861.4	2869.9	2810.0	2659.4	2657.3	2759.4	2882.4	2838.8	2705.7	3061.5	2713.8
57.5°	2683.4	2719.5	2799.3	2835.1	2918.2	3022.6	3212.2	3237.8	3080.4	3253.7	2883.7
60°	2177.2	2256.6	2517.5	2860.4	3254.4	3514.6	3610.2	3632.1	3387.8	3413.5	3113.1
62.5°	1545.5	1626.5	1957.3	2537.4	3259.4	4160.9	4203.1	4117.0	3726.4	3650.4	3508.8
65°	820.3	882.9	1153.2	1831.6	2826.0	4310.9	5240.1	4983.3	4323.7	4116.3	4020.0
67.5°	419.6	438.5	546.1	896.4	1942.8	3829.1	6169.5	6350.3	5353.2	4578.5	3995.3
69°	371.3	382.5	453.8	648.0	1244.0	3243.3	6214.8	6819.6	5892.2	4540.0	3630.8
70°	359.5	369.3	434.1	586.6	972.4	2719.8	6041.4	6778.4	6030.0	4393.4	3358.4
72.5°	305.1	313.5	386.6	518.3	790.3	1350.1	4907.6	5743.9	5411.0	3659.8	2430.9
75°	204.1	231.8	371.0	485.9	735.2	767.0	3235.5	4150.7	3855.8	2468.5	1266.3
77.5°	49.0	52.7	104.8	386.6	672.4	675.0	1664.0	2580.3	2104.6	879.8	299.3
80°	26.4	25.4	29.4	76.7	626.0	633.5	749.1	1252.5	751.5	146.0	98.6
82.5°	18.6	17.6	18.9	32.1	197.0	577.0	542.0	566.9	311.5	56.1	44.3
85°	6.8	6.4	10.4	29.1	61.8	331.7	556.8	467.6	252.4	25.7	32.4
87.5°	2.4	2.0	4.1	15.9	18.9	141.3	343.6	353.4	99.3	15.5	15.2
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°	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2	1555.2
2.5°	1541.4	1520.4	1481.9	1442.4	1405.8	1362.0	1340.0	1318.4	1309.3	1305.9	1290.0
5°	1496.8	1461.3	1379.6	1297.4	1221.7	1141.3	1088.3	1045.8	1020.7	1008.5	989.3
7.5°	1439.7	1381.6	1257.5	1130.9	1012.9	896.7	810.6	744.3	698.7	676.8	656.8
10°	1384.3	1306.9	1130.6	957.9	797.7	643.6	524.7	438.5	383.5	358.1	342.0
12.5°	1334.6	1234.3	1007.9	789.3	588.2	407.9	286.8	218.3	184.1	172.3	166.5
15°	1290.4	1167.4	892.0	629.1	398.3	233.1	156.8	133.5	128.1	128.1	127.4
17.5°	1248.4	1101.8	780.1	478.7	250.0	142.6	119.3	116.2	116.2	117.5	117.5
20°	1208.2	1039.3	672.0	343.6	157.4	113.1	107.8	107.1	107.8	109.5	109.5
22.5°	1173.7	982.5	571.0	235.8	116.9	102.0	99.3	98.3	98.6	99.6	100.4
25°	1148.1	934.6	475.8	159.8	100.7	92.9	89.9	88.2	86.8	86.8	87.5
27.5°	1131.9	894.1	383.5	116.2	90.5	84.5	79.7	77.0	74.0	72.3	72.9
30°	1120.0	855.5	297.0	94.9	81.1	75.0	68.9	64.5	60.1	58.1	58.8
32.5°	1115.6	824.4	222.0	83.8	72.6	65.9	58.4	52.7	48.0	46.2	46.6
35°	1127.5	799.7	162.5	75.7	65.9	57.4	49.0	42.6	38.9	37.8	38.2
37.5°	1158.6	786.5	121.6	68.9	59.8	50.3	40.9	34.8	32.4	32.4	32.7
40°	1217.3	786.2	97.7	64.2	54.4	43.6	33.8	29.4	28.0	28.7	29.1
42.5°	1303.1	804.1	85.1	59.8	49.7	37.1	28.0	25.0	24.7	25.4	25.7
45°	1420.4	836.9	78.4	56.1	44.6	31.1	23.6	21.6	21.6	22.6	23.0
47.5°	1564.0	884.9	72.6	52.4	39.5	26.0	20.3	18.9	19.2	20.3	20.6
50°	1737.0	945.4	66.9	48.3	35.8	21.6	17.6	16.6	16.9	18.2	18.6
52.5°	1934.0	1026.8	62.2	44.6	31.1	17.9	14.8	14.2	14.8	16.3	16.6
55°	2102.9	1099.8	56.5	41.5	25.0	14.8	12.2	12.2	12.9	14.5	14.8
57.5°	2265.4	1176.1	51.4	35.8	19.6	11.9	10.1	10.4	11.5	13.2	13.5
60°	2504.0	1305.5	45.3	30.1	14.8	9.4	8.5	8.8	10.1	11.9	12.2
62.5°	2909.1	1502.5	39.2	25.0	11.5	7.5	6.8	7.5	9.1	11.2	11.5
65°	3274.7	1582.6	32.1	21.0	8.8	5.7	5.7	6.8	8.8	10.8	11.2
67.5°	3070.9	1332.2	25.0	16.6	6.8	4.4	4.7	6.4	8.5	10.8	11.2
69°	2715.8	1089.3	21.3	13.2	5.7	4.1	4.4	6.4	8.5	10.4	10.8
70°	2439.1	919.7	18.9	11.2	5.1	4.1	4.4	6.0	8.5	10.4	10.8
72.5°	1633.7	496.6	15.2	8.1	4.7	3.7	3.7	6.0	8.1	10.1	10.4
75°	702.1	137.2	12.2	5.7	4.1	3.4	3.4	5.7	7.8	9.8	10.4
77.5°	128.4	34.8	9.8	5.1	4.1	3.4	3.1	5.4	7.5	9.4	9.8
80°	51.0	17.2	7.8	4.4	3.7	3.1	2.7	5.1	7.1	9.1	9.4
82.5°	30.8	9.8	6.4	4.1	3.7	2.7	2.4	4.4	6.8	8.8	9.1
85°	25.0	6.8	5.1	4.1	3.4	2.7	2.0	4.1	6.0	8.5	8.8
87.5°	12.2	4.7	4.7	3.7	3.4	2.7	2.0	3.7	5.7	8.1	8.5
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)