

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: P270035

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270035
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: GPC-AF-02-LED-E1-SL3-7027-600-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES 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: 6075.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

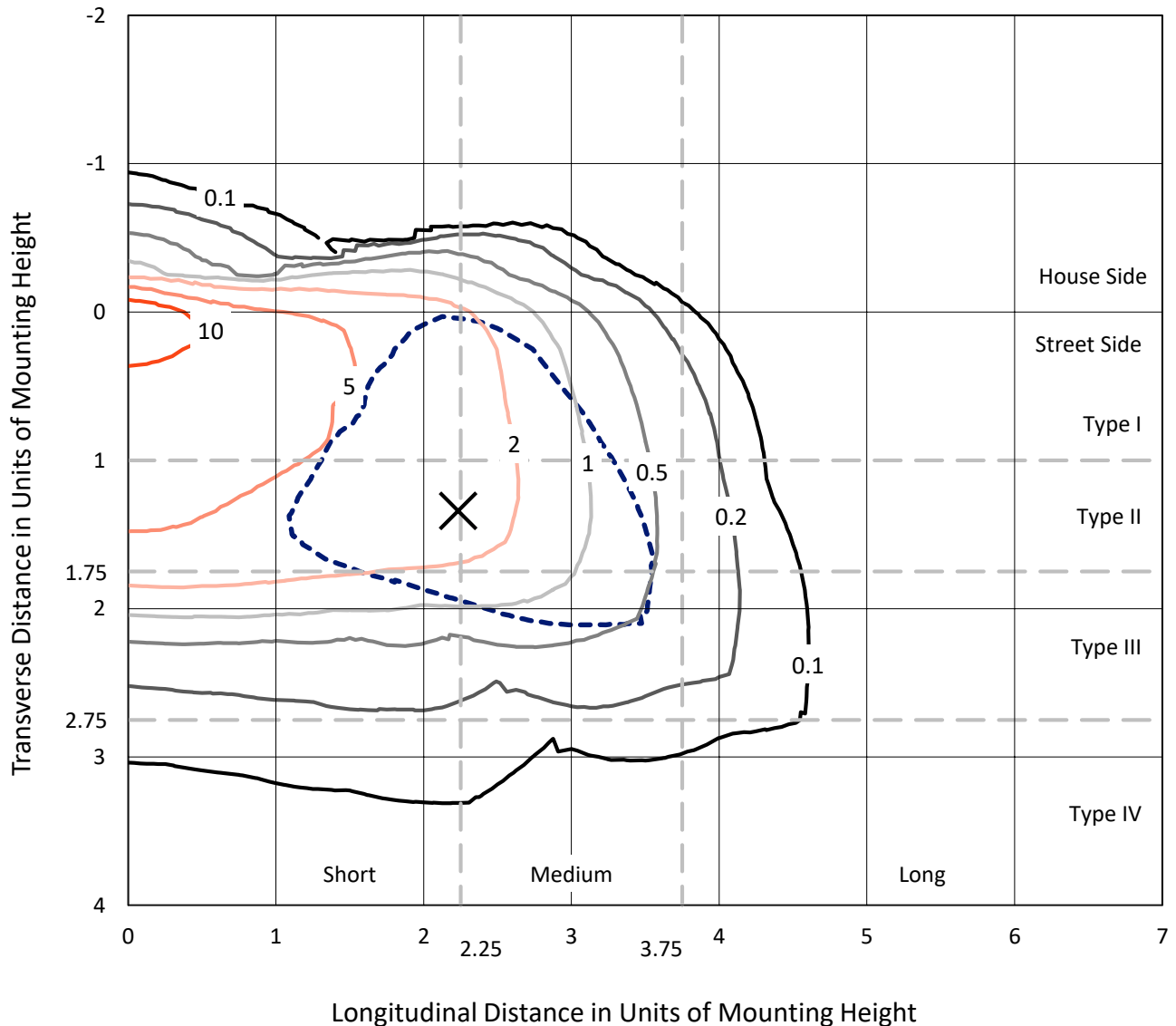


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Iso-Footcandle Lines of Horizontal Illumination

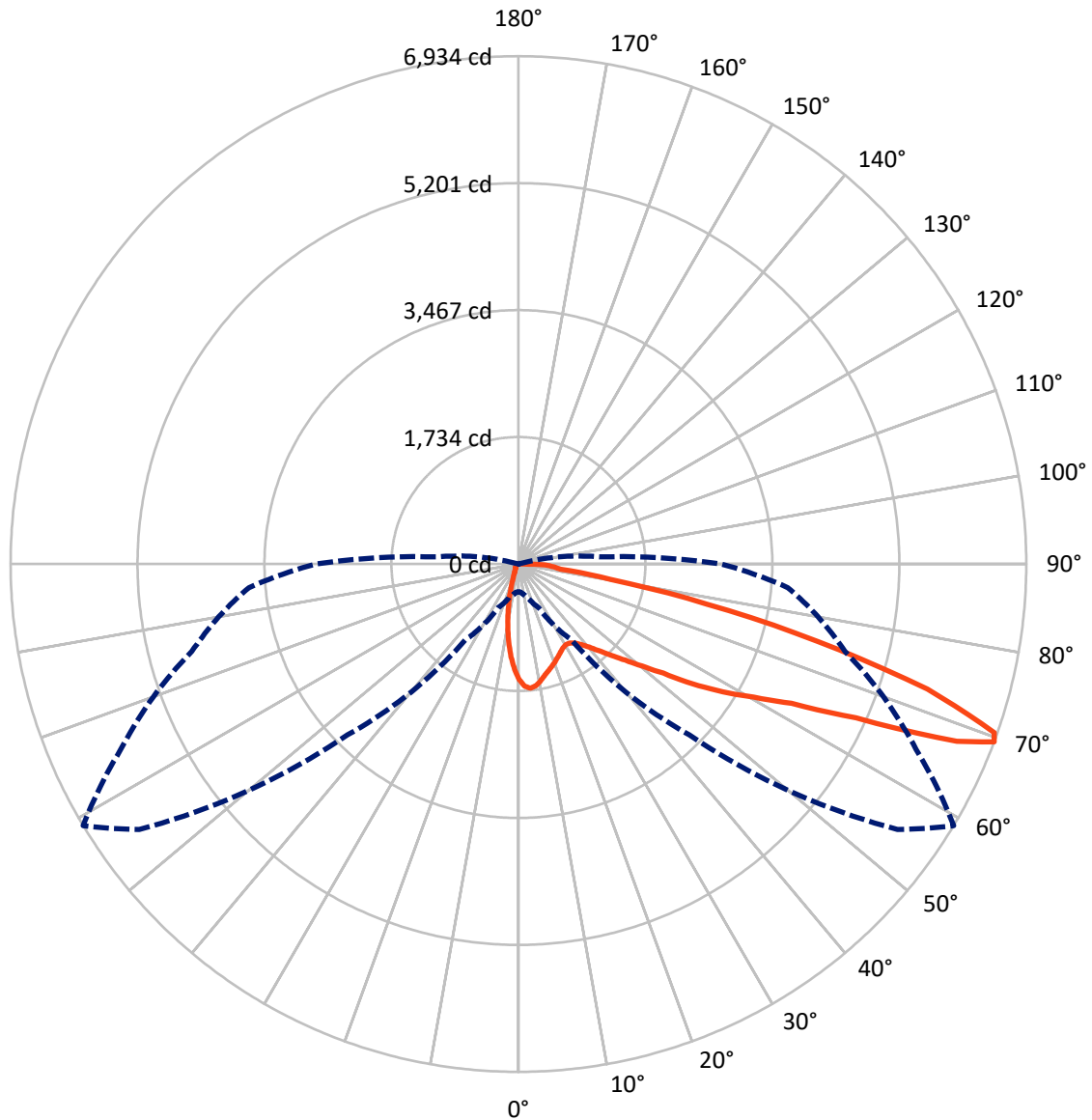
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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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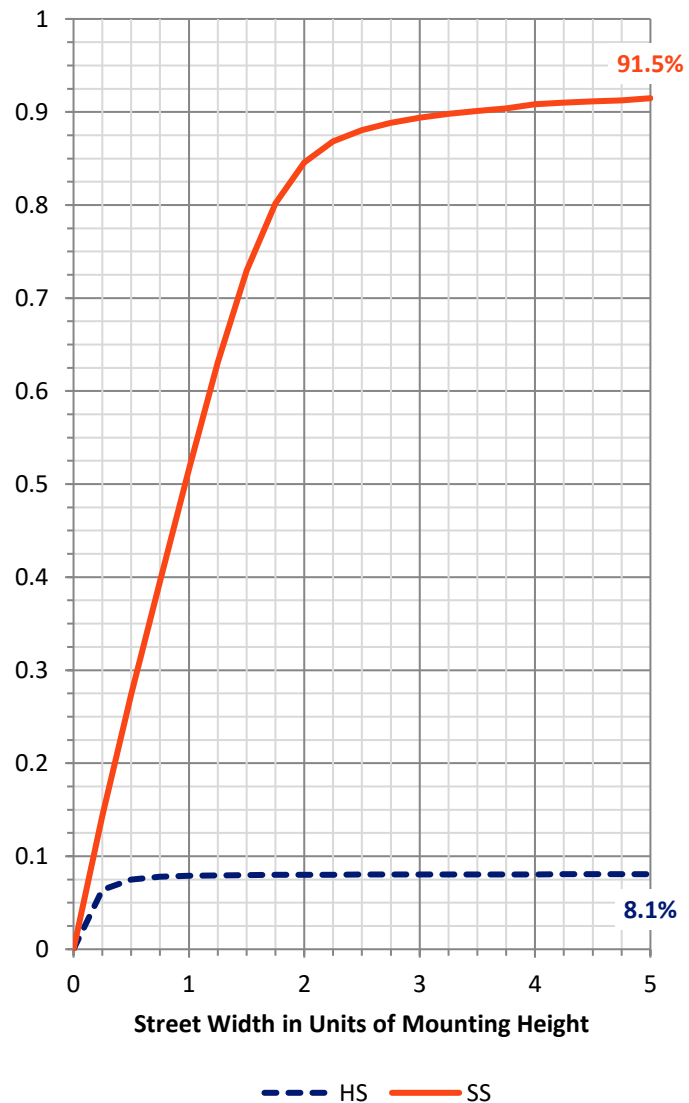
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	494.8	0.0	494.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5580.6	0.0	5580.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	6075.4	0.0	6075.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.1
10°-20°	265.2	4.4
20°-30°	356.9	5.9
30°-40°	518.2	8.5
40°-50°	862.8	14.2
50°-60°	1346.0	22.2
60°-70°	1665.5	27.4
70°-80°	844.1	13.9
80°-90°	88.3	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°	6075.4	100.0
0°-180°	6075.4	100.0



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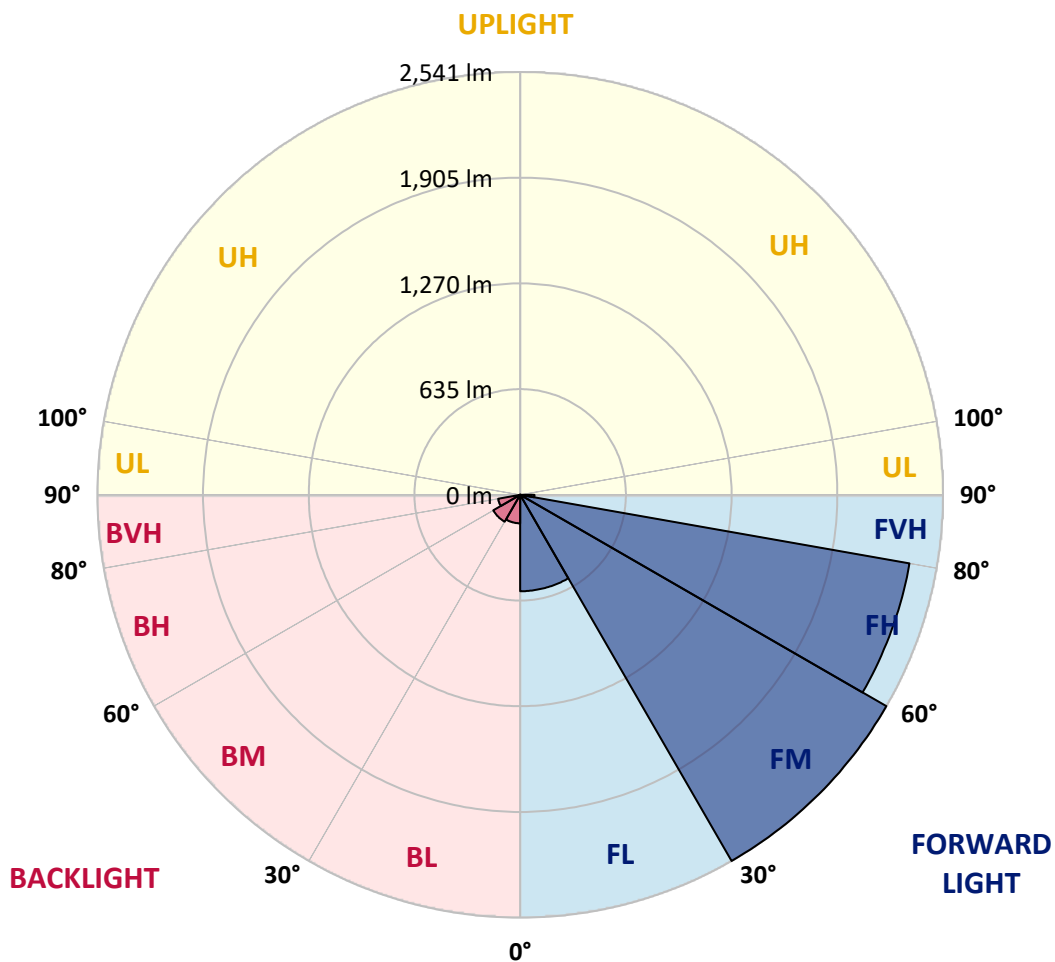
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	579.2	9.5			
FM	(30°-60°)	2540.5	41.8			
FH	(60°-80°)	2375.2	39.1			G2/5000
FVH	(80°-90°)	85.6	1.4			G1/100
BL	(0°-30°)	171.3	2.8	B1/500		
BM	(30°-60°)	186.4	3.1	B0/220		
BH	(60°-80°)	134.4	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°	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1733.2	1732.6	1724.9	1721.5	1715.4	1702.3	1681.9	1671.3	1654.1	1624.2	1584.2
5°	1717.4	1725.6	1730.0	1730.5	1734.8	1730.0	1711.9	1702.9	1679.2	1631.1	1559.0
7.5°	1610.2	1613.3	1626.0	1637.0	1658.4	1678.6	1685.1	1681.3	1667.3	1615.7	1519.8
10°	1495.5	1498.6	1513.6	1528.0	1556.9	1588.3	1621.3	1628.1	1633.8	1593.8	1482.1
12.5°	1396.5	1399.6	1415.1	1434.0	1467.7	1506.1	1557.3	1568.6	1594.4	1572.8	1451.8
15°	1311.3	1312.8	1327.9	1351.2	1391.4	1440.8	1498.9	1517.1	1556.7	1558.0	1425.4
17.5°	1238.9	1242.3	1251.5	1273.8	1317.9	1379.0	1446.7	1472.9	1519.2	1545.7	1399.6
20°	1194.4	1197.9	1197.6	1209.9	1249.5	1314.8	1394.4	1425.7	1482.1	1532.9	1376.7
22.5°	1185.9	1185.9	1177.0	1175.3	1198.6	1253.2	1340.2	1378.3	1448.7	1527.4	1360.5
25°	1216.5	1215.0	1192.8	1174.5	1175.6	1208.2	1287.6	1332.9	1420.6	1531.3	1351.9
27.5°	1281.1	1279.4	1251.2	1216.5	1188.6	1188.3	1247.7	1296.6	1398.2	1549.0	1355.4
30°	1370.5	1369.7	1339.2	1295.4	1245.1	1198.6	1234.0	1278.3	1383.7	1581.3	1363.2
32.5°	1468.0	1466.9	1443.9	1397.9	1334.1	1245.1	1248.5	1285.6	1387.9	1624.2	1382.4
35°	1571.3	1569.7	1559.6	1519.6	1449.1	1330.6	1295.8	1324.7	1414.0	1688.5	1420.2
37.5°	1683.3	1685.1	1692.2	1653.8	1579.9	1450.5	1375.2	1394.8	1466.7	1775.8	1481.8
40°	1848.6	1848.3	1850.7	1800.2	1729.1	1597.1	1486.2	1492.4	1554.5	1891.6	1575.2
42.5°	2148.6	2127.5	2064.0	1961.0	1889.4	1764.8	1626.0	1619.5	1662.0	2034.8	1706.1
45°	2551.5	2506.8	2341.9	2144.4	2053.0	1953.8	1798.0	1777.1	1804.2	2207.0	1867.4
47.5°	2898.1	2851.8	2618.5	2335.5	2226.4	2133.0	1999.7	1962.0	1970.9	2399.6	2072.3
50°	3016.0	2993.3	2789.5	2501.7	2394.5	2358.8	2233.7	2187.7	2174.9	2622.6	2309.6
52.5°	2975.0	2973.4	2837.7	2609.5	2548.4	2592.4	2528.1	2474.9	2428.2	2857.6	2551.1
55°	2909.5	2918.1	2857.2	2704.1	2702.0	2805.8	2930.8	2886.4	2751.1	3112.8	2759.4
57.5°	2728.4	2765.3	2846.3	2882.8	2967.2	3073.3	3266.1	3292.2	3132.1	3308.4	2932.2
60°	2213.9	2294.5	2559.7	2908.4	3309.0	3573.5	3670.7	3693.1	3444.7	3470.8	3165.4
62.5°	1571.3	1653.8	1990.1	2580.0	3314.1	4230.7	4273.6	4186.1	3789.0	3711.6	3567.7
65°	834.2	897.6	1172.5	1862.4	2873.4	4383.3	5328.0	5066.9	4396.3	4185.5	4087.5
67.5°	426.6	445.9	555.2	911.4	1975.5	3893.3	6273.1	6456.8	5443.1	4655.3	4062.4
69°	377.6	388.8	461.4	658.9	1265.0	3297.7	6319.1	6934.0	5991.1	4616.2	3691.8
70°	365.5	375.5	441.4	596.4	988.8	2765.5	6142.9	6892.2	6131.2	4467.1	3414.8
72.5°	310.3	318.8	393.0	526.9	803.5	1372.8	4989.9	5840.2	5501.8	3721.3	2471.7
75°	207.5	235.6	377.2	494.0	747.6	779.9	3289.9	4220.4	3920.6	2510.0	1287.6
77.5°	49.9	53.5	106.4	393.0	683.7	686.5	1692.0	2623.7	2139.9	894.6	304.3
80°	26.8	25.8	30.0	78.1	636.5	644.2	761.7	1273.4	764.1	148.4	100.3
82.5°	19.0	17.8	19.3	32.7	200.3	586.8	551.0	576.4	316.7	57.0	45.0
85°	6.8	6.6	10.7	29.6	62.9	337.4	566.1	475.5	256.6	26.1	33.0
87.5°	2.4	2.1	4.1	16.2	19.3	143.5	349.4	359.3	101.0	15.8	15.5
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°	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3	1581.3
2.5°	1567.3	1546.0	1506.7	1466.7	1429.6	1384.8	1362.5	1340.5	1331.3	1327.9	1311.6
5°	1521.9	1485.8	1402.8	1319.3	1242.3	1160.5	1106.5	1063.2	1037.8	1025.4	1005.9
7.5°	1463.9	1404.8	1278.6	1149.8	1029.9	911.8	824.1	756.8	710.5	688.1	667.9
10°	1407.6	1328.9	1149.6	973.9	811.1	654.4	533.6	445.9	390.0	364.2	347.6
12.5°	1357.0	1254.9	1024.7	802.5	598.1	414.7	291.7	221.9	187.2	175.2	169.4
15°	1312.1	1186.9	907.0	639.7	405.0	237.1	159.4	135.7	130.3	130.3	129.5
17.5°	1269.3	1120.2	793.3	486.8	254.2	144.9	121.4	118.1	118.1	119.6	119.6
20°	1228.5	1056.8	683.3	349.4	160.1	115.2	109.7	109.0	109.7	111.3	111.3
22.5°	1193.5	999.0	580.6	239.8	118.8	103.8	101.0	100.0	100.3	101.4	102.0
25°	1167.3	950.2	483.6	162.6	102.3	94.5	91.4	89.7	88.4	88.4	89.0
27.5°	1150.9	909.1	390.0	118.1	92.0	85.9	81.0	78.3	75.3	73.5	74.2
30°	1138.8	869.9	302.0	96.6	82.5	76.3	70.1	65.7	61.2	59.1	59.7
32.5°	1134.4	838.3	225.7	85.2	73.9	67.1	59.5	53.5	48.8	47.2	47.4
35°	1146.3	813.1	165.3	77.0	67.1	58.4	49.9	43.3	39.5	38.4	38.8
37.5°	1177.9	799.9	123.6	70.1	60.8	51.3	41.6	35.5	33.0	33.0	33.3
40°	1237.8	799.4	99.4	65.2	55.3	44.3	34.3	30.0	28.6	29.3	29.6
42.5°	1325.1	817.6	86.5	60.8	50.6	37.8	28.6	25.4	25.2	25.8	26.1
45°	1444.2	851.0	79.7	57.0	45.4	31.6	24.1	22.0	22.0	23.0	23.4
47.5°	1590.3	899.7	73.9	53.3	40.2	26.5	20.7	19.3	19.7	20.7	21.0
50°	1766.2	961.2	68.0	49.1	36.4	22.0	17.8	16.9	17.2	18.5	19.0
52.5°	1966.5	1044.0	63.2	45.4	31.6	18.2	15.1	14.5	15.1	16.4	16.9
55°	2138.2	1118.2	57.4	42.3	25.4	15.1	12.3	12.3	13.0	14.8	15.1
57.5°	2303.4	1195.9	52.2	36.4	19.9	12.0	10.3	10.7	11.7	13.5	13.7
60°	2545.9	1327.4	46.1	30.6	15.1	9.6	8.7	9.0	10.3	12.0	12.3
62.5°	2957.8	1527.7	39.9	25.4	11.7	7.5	6.8	7.5	9.3	11.4	11.7
65°	3329.7	1609.1	32.7	21.3	9.0	5.8	5.8	6.8	9.0	11.0	11.4
67.5°	3122.5	1354.6	25.4	16.9	6.8	4.5	4.9	6.6	8.7	11.0	11.4
69°	2761.4	1107.6	21.6	13.5	5.8	4.1	4.5	6.6	8.7	10.7	11.0
70°	2480.0	935.1	19.3	11.4	5.2	4.1	4.5	6.2	8.7	10.7	11.0
72.5°	1661.1	504.9	15.5	8.3	4.9	3.9	3.9	6.2	8.3	10.3	10.7
75°	714.0	139.4	12.3	5.8	4.1	3.5	3.5	5.8	7.9	10.1	10.7
77.5°	130.6	35.5	10.1	5.2	4.1	3.5	3.1	5.5	7.5	9.6	10.1
80°	51.9	17.5	7.9	4.5	3.9	3.1	2.8	5.2	7.2	9.3	9.6
82.5°	31.4	10.1	6.6	4.1	3.9	2.8	2.4	4.5	6.8	9.0	9.3
85°	25.4	6.8	5.2	4.1	3.5	2.8	2.1	4.1	6.2	8.7	9.0
87.5°	12.3	4.9	4.9	3.9	3.5	2.8	2.1	3.9	5.8	8.3	8.7
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)