

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: P270121

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270121
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: GWC-AF-02-LED-E1-SL3-7027-600-HSS
Description: GALLEON WALL 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: 5972.5 lumens
Efficiency: N/A
Efficacy: 90.5 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

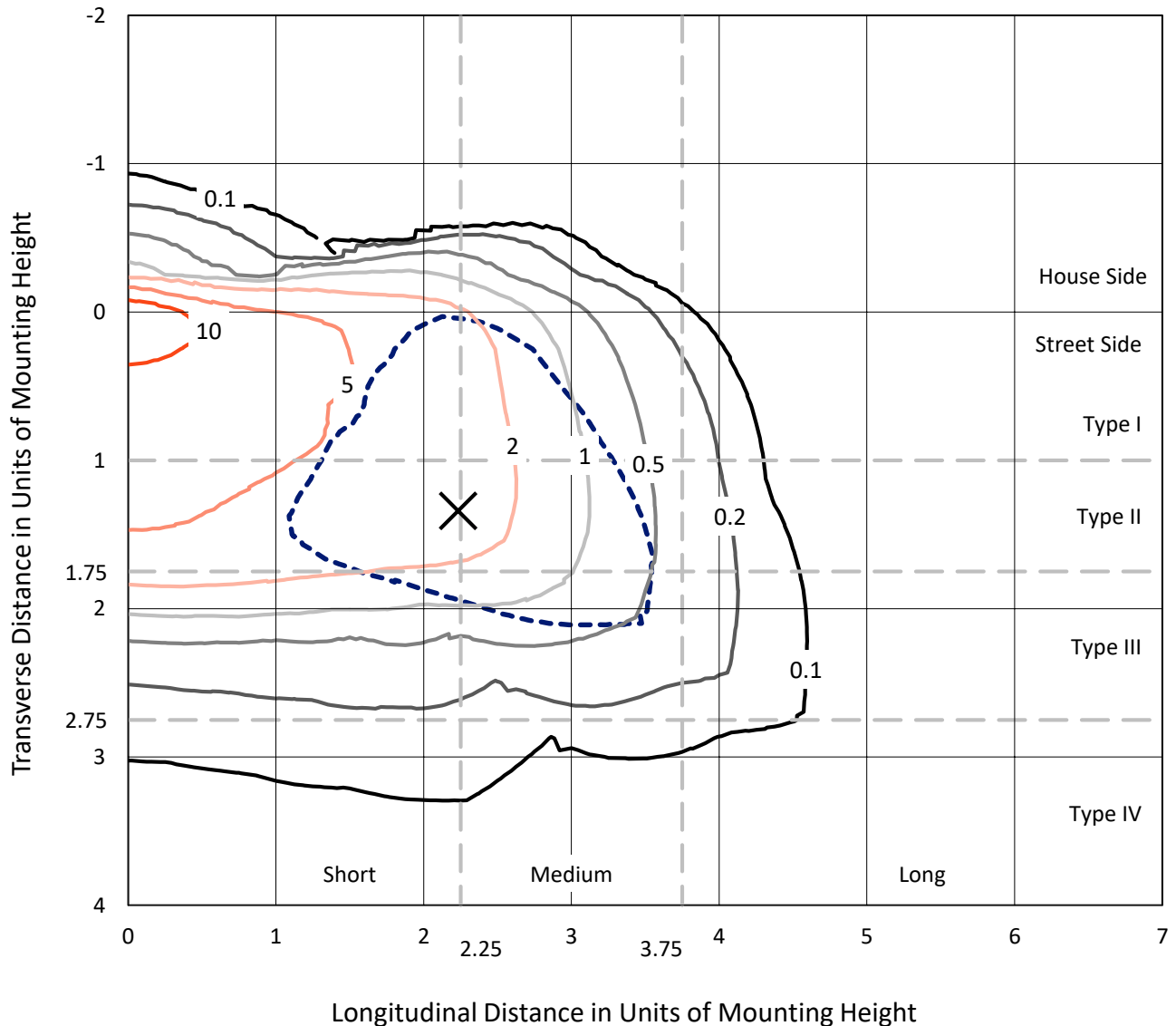
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

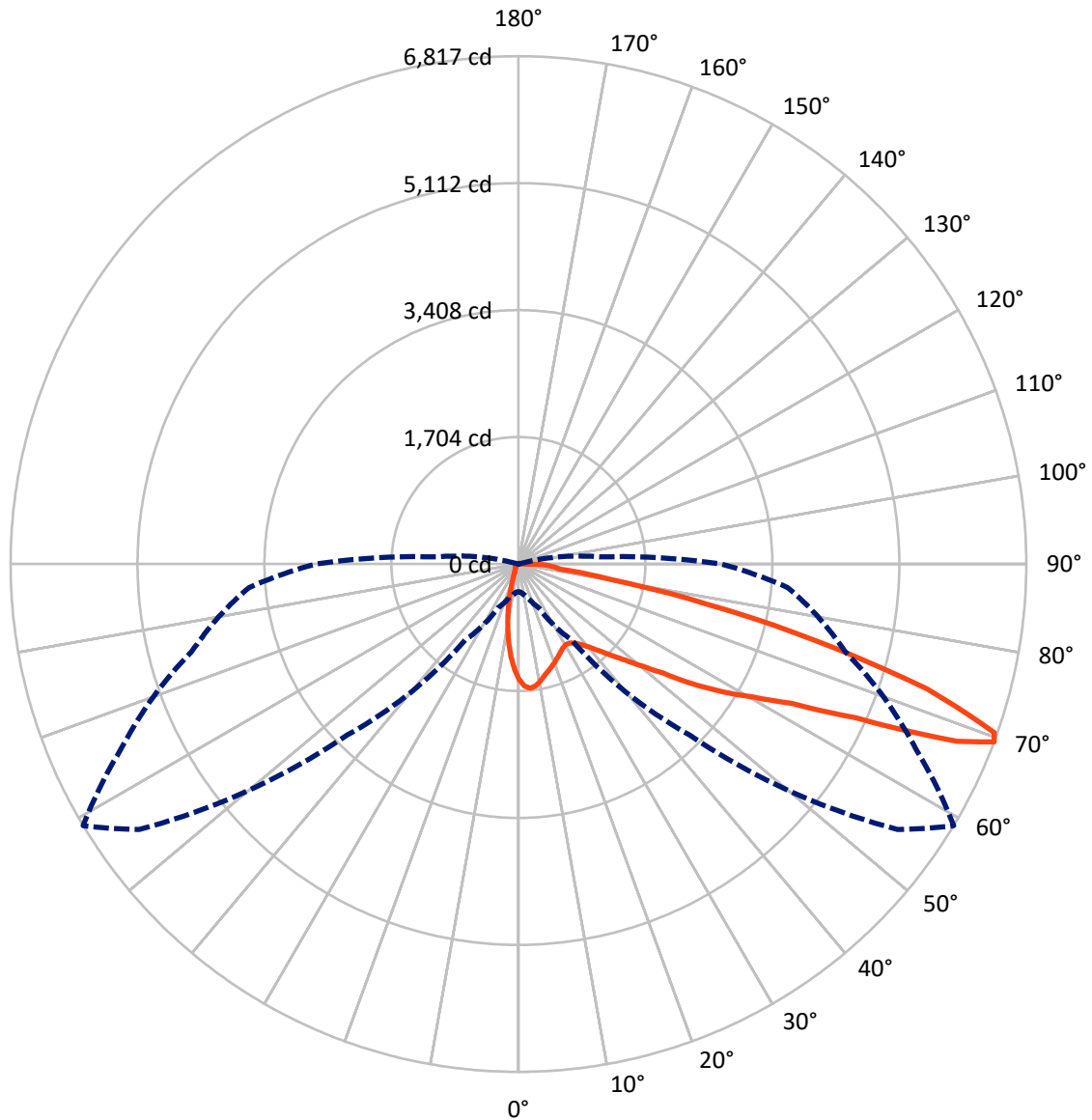


Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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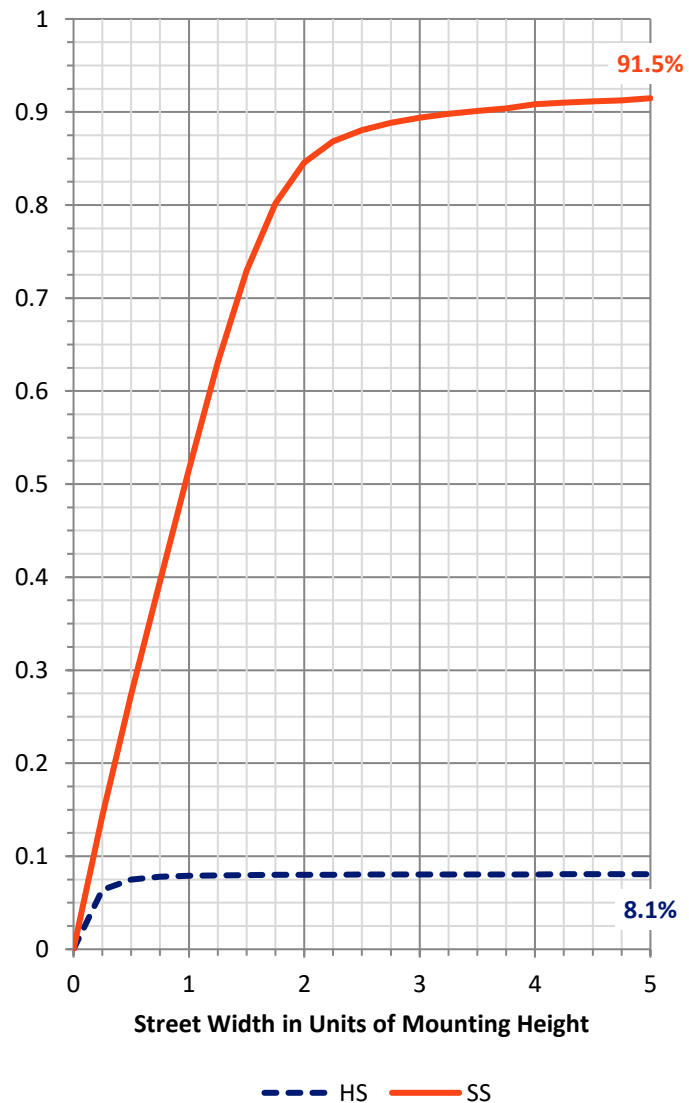
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	486.4	0.0	486.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	5486.0	0.0	5486.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	5972.5	0.0	5972.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.1
10°-20°	260.7	4.4
20°-30°	350.8	5.9
30°-40°	509.4	8.5
40°-50°	848.2	14.2
50°-60°	1323.2	22.2
60°-70°	1637.3	27.4
70°-80°	829.8	13.9
80°-90°	86.8	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°	5972.5	100.0
0°-180°	5972.5	100.0



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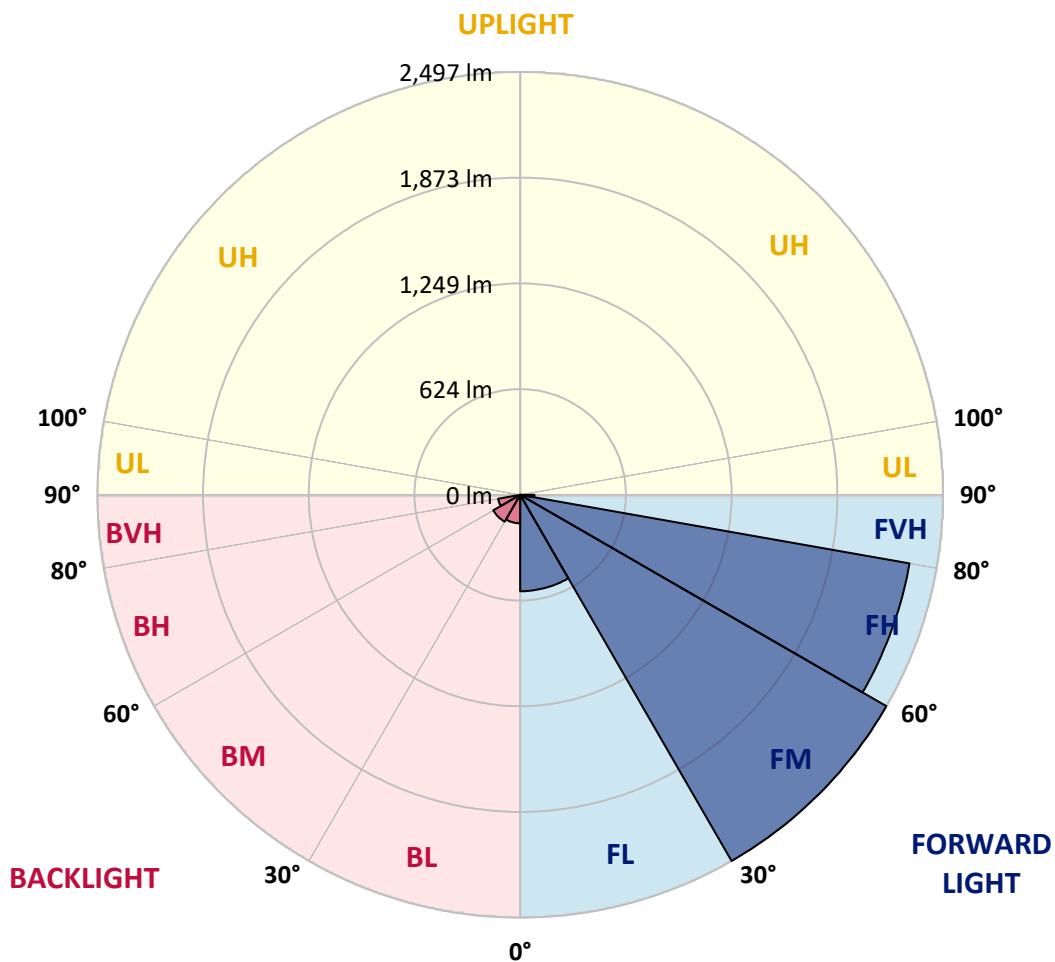
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.4	9.5			
FM (30°-60°)	2497.5	41.8			
FH (60°-80°)	2335.0	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°)	132.1	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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1703.8	1703.2	1695.7	1692.3	1686.3	1673.5	1653.4	1643.0	1626.1	1596.7	1557.3
5°	1688.3	1696.4	1700.8	1701.1	1705.4	1700.8	1682.9	1674.1	1650.7	1603.5	1532.6
7.5°	1582.9	1586.0	1598.4	1609.2	1630.2	1650.1	1656.6	1652.8	1639.0	1588.3	1494.1
10°	1470.2	1473.1	1488.0	1502.1	1530.5	1561.3	1593.8	1600.5	1606.2	1566.7	1457.0
12.5°	1372.9	1375.8	1391.1	1409.6	1442.8	1480.6	1530.9	1542.0	1567.4	1546.1	1427.2
15°	1289.2	1290.5	1305.3	1328.3	1367.8	1416.4	1473.5	1491.4	1530.3	1531.6	1401.3
17.5°	1217.8	1221.2	1230.3	1252.2	1295.5	1355.6	1422.2	1447.9	1493.4	1519.5	1375.8
20°	1174.2	1177.6	1177.3	1189.4	1228.3	1292.5	1370.8	1401.5	1457.0	1506.9	1353.3
22.5°	1165.8	1165.8	1157.0	1155.3	1178.3	1232.0	1317.5	1354.9	1424.2	1501.5	1337.4
25°	1195.8	1194.5	1172.6	1154.6	1155.7	1187.7	1265.8	1310.4	1396.5	1505.3	1329.0
27.5°	1259.3	1257.7	1230.0	1195.8	1168.5	1168.2	1226.6	1274.6	1374.5	1522.8	1332.4
30°	1347.2	1346.6	1316.5	1273.5	1223.9	1178.3	1213.1	1256.6	1360.3	1554.5	1340.1
32.5°	1443.1	1442.0	1419.5	1374.2	1311.4	1223.9	1227.3	1263.7	1364.3	1596.7	1359.0
35°	1544.7	1543.1	1533.2	1493.8	1424.5	1308.0	1273.9	1302.3	1390.0	1659.9	1396.1
37.5°	1654.8	1656.6	1663.6	1625.8	1553.2	1425.9	1351.9	1371.2	1441.8	1745.7	1456.6
40°	1817.3	1816.9	1819.3	1769.7	1699.8	1570.1	1461.0	1467.0	1528.2	1859.5	1548.5
42.5°	2112.2	2091.5	2029.1	1927.8	1857.4	1734.9	1598.4	1592.0	1633.8	2000.3	1677.1
45°	2508.2	2464.3	2302.2	2108.1	2018.2	1920.7	1767.6	1747.0	1773.7	2169.6	1835.8
47.5°	2849.0	2803.4	2574.1	2295.9	2188.7	2096.9	1965.9	1928.8	1937.5	2358.9	2037.2
50°	2964.9	2942.6	2742.3	2459.3	2353.9	2318.8	2195.9	2150.6	2138.1	2578.1	2270.5
52.5°	2924.6	2923.0	2789.6	2565.3	2505.2	2548.5	2485.3	2433.0	2387.1	2809.2	2507.9
55°	2860.2	2868.6	2808.8	2658.3	2656.2	2758.2	2881.1	2837.5	2704.4	3060.1	2712.6
57.5°	2682.2	2718.4	2798.0	2833.9	2916.9	3021.2	3210.7	3236.4	3079.0	3252.3	2882.5
60°	2176.3	2255.6	2516.3	2859.1	3252.9	3513.0	3608.5	3630.5	3386.3	3411.9	3111.7
62.5°	1544.7	1625.8	1956.4	2536.3	3258.0	4159.1	4201.2	4115.1	3724.7	3648.7	3507.3
65°	820.1	882.4	1152.6	1830.8	2824.7	4309.0	5237.7	4981.0	4321.8	4114.5	4018.2
67.5°	419.4	438.4	545.7	896.0	1942.0	3827.3	6166.8	6347.4	5350.8	4576.4	3993.6
69°	371.2	382.2	453.6	647.8	1243.5	3241.8	6212.0	6816.5	5889.6	4538.0	3629.2
70°	359.3	369.1	434.0	586.2	972.0	2718.6	6038.8	6775.4	6027.3	4391.4	3357.0
72.5°	305.0	313.4	386.4	518.1	789.9	1349.5	4905.4	5741.2	5408.6	3658.3	2429.8
75°	204.0	231.7	370.8	485.6	734.9	766.7	3234.1	4148.9	3854.1	2467.4	1265.8
77.5°	49.0	52.6	104.7	386.4	672.1	674.8	1663.3	2579.2	2103.7	879.4	299.2
80°	26.3	25.3	29.5	76.7	625.8	633.2	748.7	1251.9	751.2	145.9	98.6
82.5°	18.6	17.5	19.0	32.2	196.9	576.8	541.7	566.7	311.4	56.1	44.3
85°	6.7	6.5	10.5	29.0	61.8	331.7	556.5	467.4	252.3	25.7	32.4
87.5°	2.4	2.1	4.0	15.9	19.0	141.1	343.5	353.2	99.3	15.5	15.3
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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1540.7	1519.8	1481.2	1441.8	1405.3	1361.4	1339.4	1317.8	1308.7	1305.3	1289.4
5°	1496.1	1460.6	1379.0	1296.9	1221.2	1140.8	1087.8	1045.2	1020.2	1008.1	988.9
7.5°	1439.1	1381.0	1257.0	1130.3	1012.5	896.3	810.2	744.0	698.4	676.4	656.6
10°	1383.7	1306.3	1130.1	957.4	797.3	643.4	524.5	438.4	383.3	358.0	341.7
12.5°	1334.0	1233.6	1007.4	789.0	587.9	407.7	286.7	218.1	184.1	172.2	166.5
15°	1289.8	1166.8	891.7	628.8	398.2	233.0	156.7	133.4	128.0	128.0	127.4
17.5°	1247.8	1101.2	779.8	478.5	249.9	142.5	119.3	116.2	116.2	117.5	117.5
20°	1207.7	1038.9	671.8	343.5	157.4	113.2	107.8	107.1	107.8	109.4	109.4
22.5°	1173.3	982.1	570.7	235.7	116.9	102.0	99.3	98.3	98.6	99.7	100.3
25°	1147.6	934.1	475.5	159.8	100.6	92.9	89.8	88.2	86.9	86.9	87.5
27.5°	1131.4	893.6	383.3	116.2	90.5	84.4	79.7	77.0	74.0	72.2	72.9
30°	1119.5	855.2	296.9	95.0	81.0	75.0	68.9	64.6	60.1	58.1	58.7
32.5°	1115.2	824.1	221.9	83.7	72.7	65.9	58.5	52.6	48.0	46.4	46.6
35°	1126.9	799.4	162.5	75.6	65.9	57.4	49.0	42.6	38.9	37.8	38.2
37.5°	1158.0	786.3	121.5	68.9	59.8	50.4	40.9	34.9	32.4	32.4	32.8
40°	1216.8	785.8	97.6	64.1	54.4	43.6	33.8	29.5	28.1	28.7	29.0
42.5°	1302.6	803.8	85.1	59.8	49.7	37.2	28.1	25.0	24.7	25.3	25.7
45°	1419.8	836.5	78.3	56.1	44.6	31.1	23.6	21.6	21.6	22.6	23.0
47.5°	1563.3	884.5	72.7	52.4	39.5	26.1	20.3	19.0	19.3	20.3	20.7
50°	1736.2	944.9	66.8	48.3	35.8	21.6	17.5	16.6	16.9	18.2	18.6
52.5°	1933.2	1026.3	62.2	44.6	31.1	18.0	14.8	14.2	14.8	16.2	16.6
55°	2102.0	1099.3	56.4	41.6	25.0	14.8	12.1	12.1	12.8	14.6	14.8
57.5°	2264.4	1175.6	51.3	35.8	19.6	11.9	10.2	10.5	11.5	13.2	13.5
60°	2502.8	1305.0	45.3	30.1	14.8	9.4	8.5	8.8	10.2	11.9	12.1
62.5°	2907.7	1501.9	39.2	25.0	11.5	7.5	6.7	7.5	9.2	11.2	11.5
65°	3273.2	1581.8	32.2	20.9	8.8	5.7	5.7	6.7	8.8	10.8	11.2
67.5°	3069.6	1331.6	25.0	16.6	6.7	4.4	4.8	6.5	8.5	10.8	11.2
69°	2714.6	1088.8	21.3	13.2	5.7	4.0	4.4	6.5	8.5	10.5	10.8
70°	2438.0	919.3	19.0	11.2	5.1	4.0	4.4	6.1	8.5	10.5	10.8
72.5°	1632.9	496.4	15.3	8.1	4.8	3.8	3.8	6.1	8.1	10.2	10.5
75°	701.8	137.1	12.1	5.7	4.0	3.4	3.4	5.7	7.8	9.9	10.5
77.5°	128.4	34.9	9.9	5.1	4.0	3.4	3.1	5.4	7.5	9.4	9.9
80°	51.0	17.2	7.8	4.4	3.8	3.1	2.7	5.1	7.1	9.2	9.4
82.5°	30.8	9.9	6.5	4.0	3.8	2.7	2.4	4.4	6.7	8.8	9.2
85°	25.0	6.7	5.1	4.0	3.4	2.7	2.1	4.0	6.1	8.5	8.8
87.5°	12.1	4.8	4.8	3.8	3.4	2.7	2.1	3.8	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)