

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: P458551

Luminaire Tested: **GALN-SA1B-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5316 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

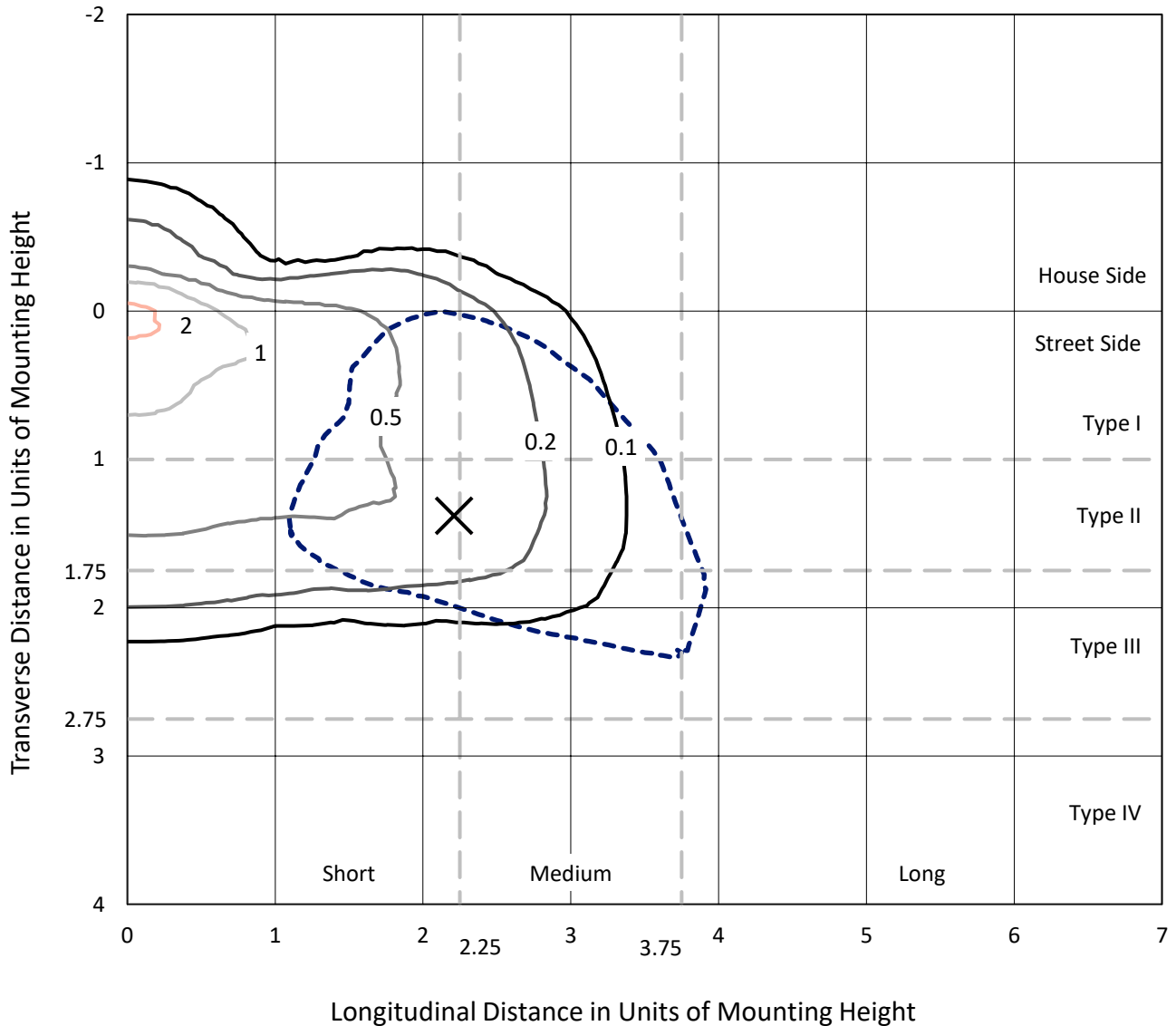
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

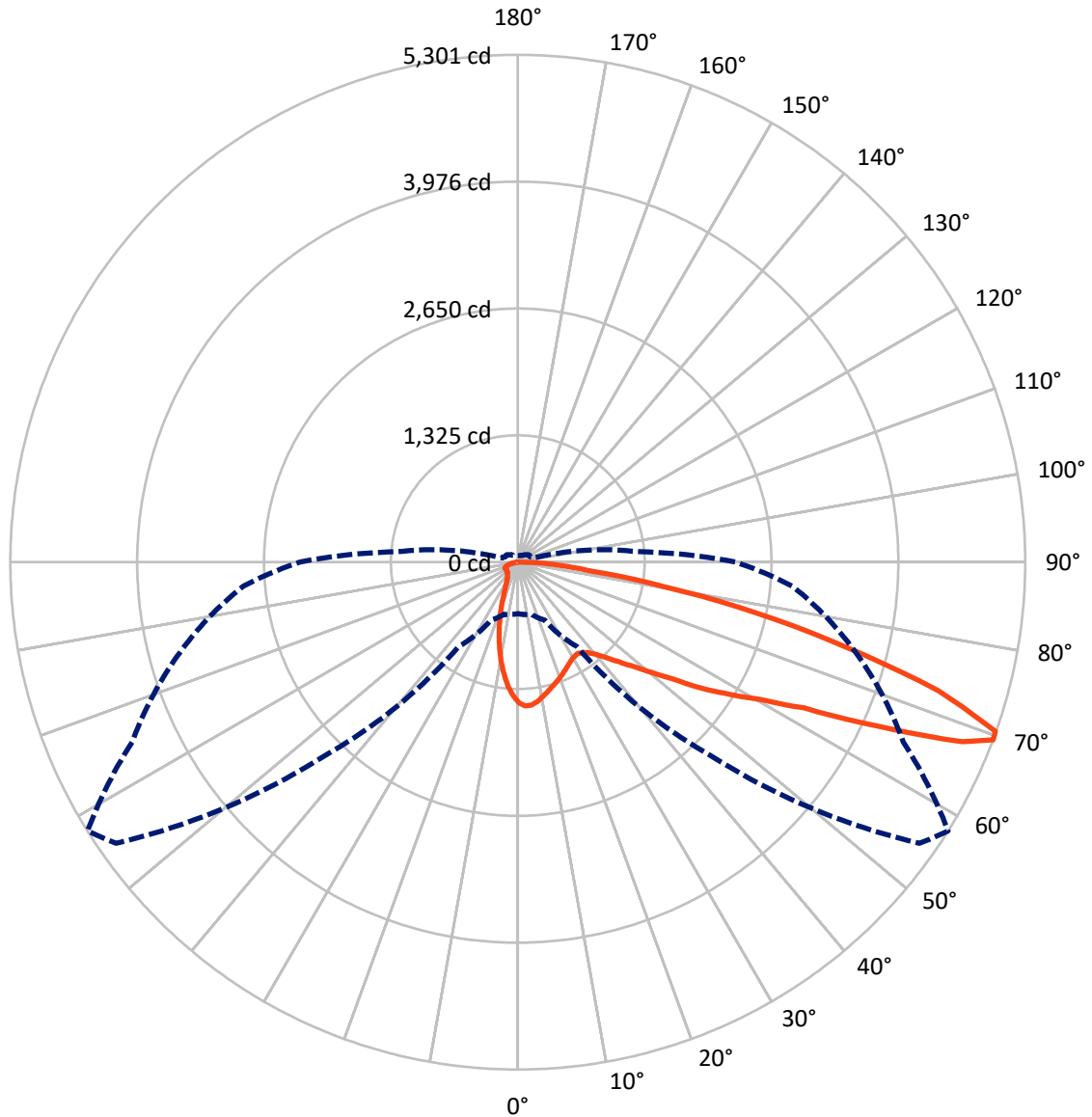
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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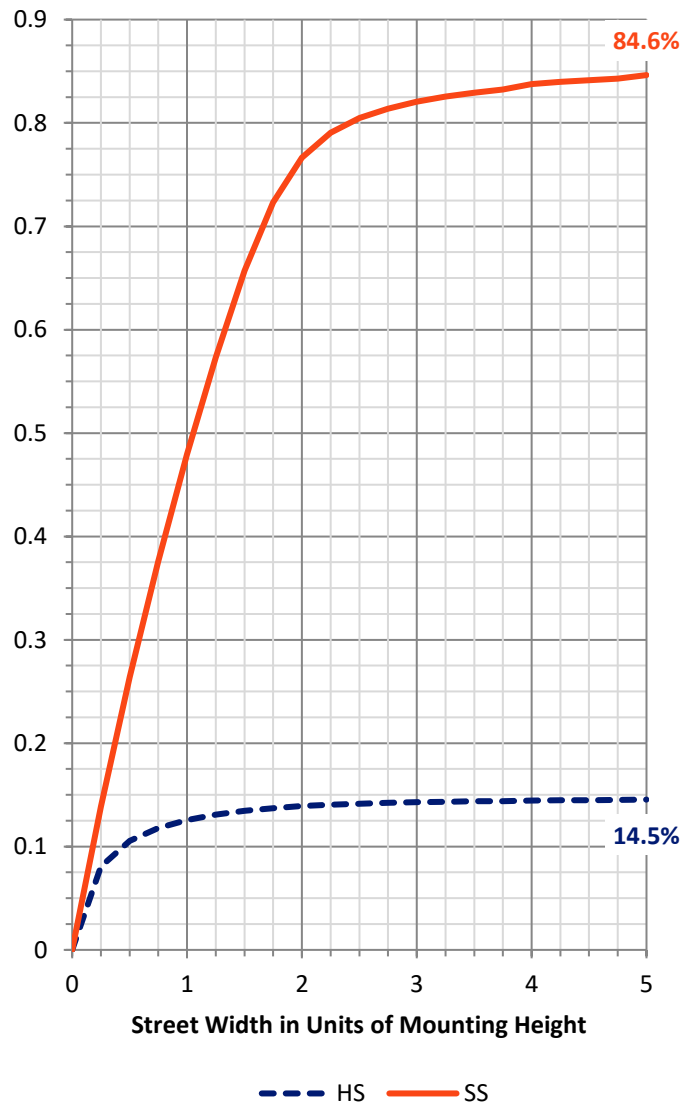
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.1	0.0	779.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	4536.9	0.0	4536.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	5316.0	0.0	5316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	2.3
10°-20°	273.9	5.2
20°-30°	353.9	6.7
30°-40°	459.7	8.6
40°-50°	668.3	12.6
50°-60°	1066.4	20.1
60°-70°	1424.6	26.8
70°-80°	821.2	15.4
80°-90°	123.0	2.3
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°	5316.0	100.0
0°-180°	5316.0	100.0



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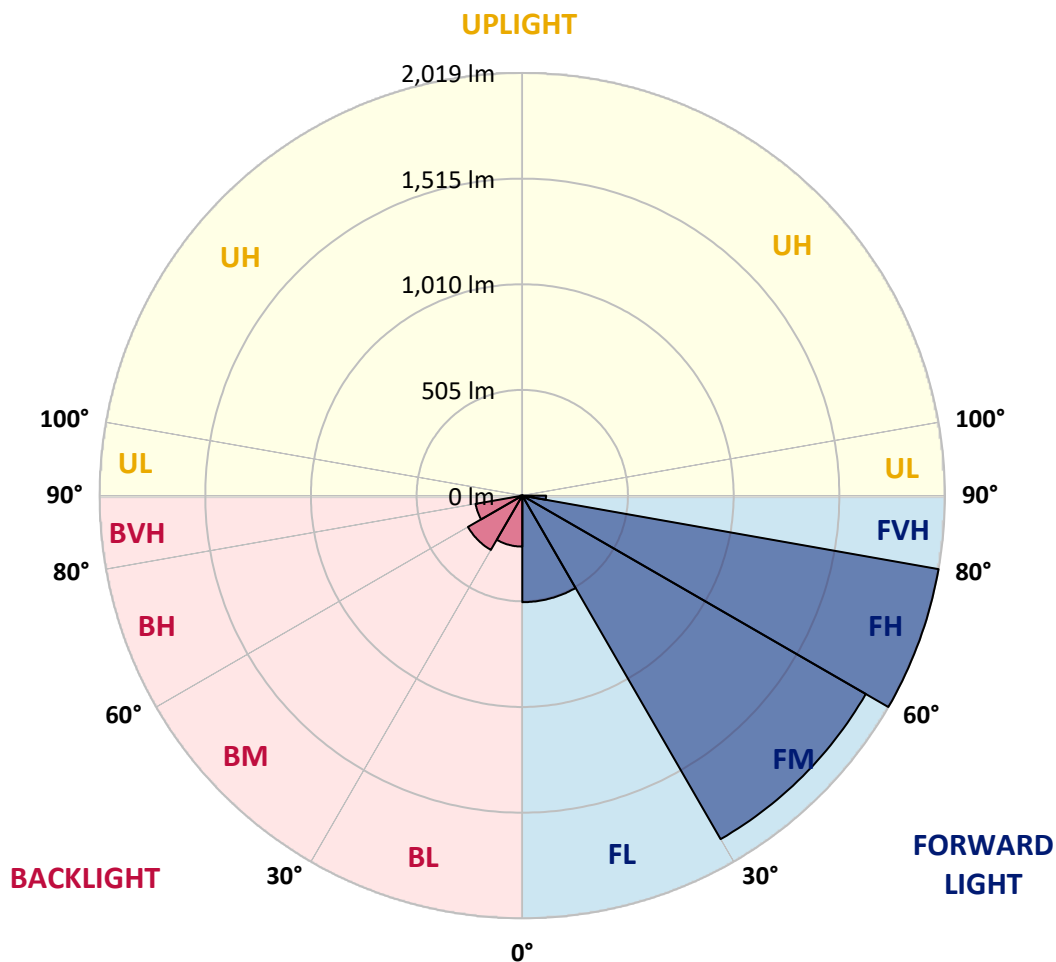
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	509.1	9.6			
FM	(30°-60°)	1894.9	35.6			
FH	(60°-80°)	2019.3	38.0			G2/5000
FVH	(80°-90°)	113.6	2.1			G2/225
BL	(0°-30°)	243.5	4.6	B1/500		
BM	(30°-60°)	299.6	5.6	B1/1000		
BH	(60°-80°)	226.5	4.3	B1/500		G1/500
BVH	(80°-90°)	9.4	0.2			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°	58°	65°	75°	85°
0°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1523.6	1527.7	1526.5	1525.1	1522.7	1516.2	1505.5	1503.7	1496.9	1482.4	1464.3
5°	1500.2	1503.7	1504.0	1506.1	1509.1	1507.9	1500.2	1499.3	1489.2	1469.6	1439.4
7.5°	1419.8	1424.6	1434.9	1446.5	1456.9	1466.7	1469.0	1470.5	1464.3	1441.8	1401.4
10°	1329.4	1334.1	1338.9	1356.1	1381.6	1405.9	1426.0	1428.7	1430.2	1409.4	1360.2
12.5°	1229.2	1239.0	1249.0	1274.5	1308.6	1346.9	1382.5	1388.1	1398.2	1382.5	1324.6
15°	1144.1	1154.2	1168.7	1191.5	1232.7	1287.9	1338.0	1347.2	1367.0	1359.0	1291.4
17.5°	1085.1	1088.7	1098.7	1124.8	1169.3	1227.4	1294.4	1312.8	1344.5	1342.4	1263.0
20°	1038.6	1043.0	1049.2	1065.2	1111.5	1172.9	1253.8	1277.5	1320.5	1327.6	1234.8
22.5°	1019.0	1022.2	1021.4	1030.0	1061.4	1123.0	1212.6	1240.7	1299.2	1317.5	1208.7
25°	1020.2	1023.1	1018.7	1016.6	1035.3	1079.2	1169.6	1205.5	1282.0	1310.7	1185.0
27.5°	1040.0	1042.1	1033.8	1025.5	1027.0	1051.9	1134.0	1173.7	1267.4	1313.7	1165.1
30°	1066.7	1070.6	1065.2	1055.2	1044.2	1045.4	1111.2	1150.3	1260.6	1324.1	1155.7
32.5°	1101.1	1104.7	1102.3	1094.3	1080.1	1064.3	1105.6	1141.7	1261.2	1345.1	1153.6
35°	1137.3	1144.4	1148.2	1147.7	1136.1	1108.8	1127.8	1157.7	1275.4	1380.4	1165.7
37.5°	1178.2	1184.1	1200.7	1211.4	1200.7	1169.0	1177.9	1198.6	1306.9	1431.4	1192.4
40°	1217.9	1226.8	1251.1	1284.3	1280.2	1252.3	1254.4	1268.0	1362.3	1507.3	1244.6
42.5°	1259.4	1270.1	1312.5	1361.7	1371.5	1349.8	1355.5	1367.6	1441.2	1612.5	1334.1
45°	1312.8	1325.5	1377.7	1439.1	1477.6	1464.3	1480.3	1486.2	1546.7	1749.5	1452.1
47.5°	1381.6	1396.4	1460.7	1537.2	1591.8	1603.9	1631.8	1628.2	1677.5	1911.7	1605.1
50°	1497.5	1505.8	1566.6	1644.5	1719.6	1774.4	1804.6	1810.3	1839.6	2069.4	1776.2
52.5°	1635.4	1642.8	1686.6	1754.8	1848.8	1965.0	2039.7	2021.4	2028.5	2261.5	1976.3
55°	1790.4	1802.9	1830.7	1876.1	1997.9	2169.0	2319.0	2323.5	2244.6	2445.3	2168.1
57.5°	1910.5	1931.5	1979.3	2043.9	2198.4	2395.8	2597.4	2600.4	2499.6	2641.6	2379.8
60°	1850.0	1874.9	1984.0	2141.4	2461.3	2791.6	2930.1	2913.2	2747.7	2865.1	2638.0
62.5°	1589.1	1593.6	1752.2	1998.2	2542.3	3321.1	3425.2	3353.7	3078.9	3148.6	2900.4
65°	1028.5	1057.5	1183.2	1528.0	2276.3	3614.9	4292.7	4127.5	3543.2	3470.2	3120.1
67.5°	649.3	641.9	694.0	872.5	1565.7	3356.1	5033.0	5006.9	4150.3	3673.3	3067.6
69°	538.4	546.7	564.5	668.8	1077.4	2865.4	5120.4	5300.7	4444.7	3657.3	2877.0
70°	488.3	492.1	510.8	592.9	831.3	2400.0	4976.9	5292.7	4560.4	3590.3	2738.8
72.5°	387.5	387.2	419.2	493.3	621.4	1370.0	4086.6	4595.1	4431.1	3278.4	2263.0
75°	294.4	299.1	334.4	417.4	572.5	748.6	2851.8	3538.7	3539.0	2589.4	1412.1
77.5°	212.3	215.2	256.5	350.4	539.3	606.9	1899.5	2538.1	2386.0	1186.5	443.8
80°	139.0	140.8	172.3	277.5	486.2	572.5	1126.3	1553.5	1125.4	314.9	146.8
82.5°	76.2	85.1	105.2	179.7	390.2	528.9	684.6	786.3	422.2	140.2	76.5
85°	38.2	40.6	59.3	105.0	255.0	437.6	476.7	450.9	217.9	69.7	39.7
87.5°	11.3	14.2	24.6	40.6	103.5	228.0	265.3	238.1	83.9	25.2	8.3
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°	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0	1469.0
2.5°	1456.9	1451.5	1427.8	1406.5	1386.9	1366.2	1348.7	1333.2	1334.7	1335.0	1319.3
5°	1423.7	1411.5	1366.5	1324.4	1288.8	1243.7	1205.2	1180.3	1167.8	1151.2	1157.1
7.5°	1378.6	1355.2	1292.6	1222.7	1157.1	1098.7	1035.3	991.7	963.8	936.9	940.4
10°	1332.1	1294.4	1203.4	1110.9	1026.1	932.7	851.8	782.4	730.8	711.5	698.8
12.5°	1284.3	1234.8	1119.2	996.2	879.0	767.3	652.5	578.1	521.2	491.0	494.8
15°	1240.7	1180.6	1031.4	881.4	729.3	596.2	481.8	410.9	371.2	362.9	367.6
17.5°	1200.4	1121.6	949.3	769.9	592.4	447.1	362.0	322.0	306.0	301.5	301.2
20°	1158.9	1071.5	857.1	650.8	461.6	346.6	297.1	278.4	275.4	277.2	277.5
22.5°	1116.8	1009.5	762.2	532.5	367.6	283.4	259.7	254.7	257.0	261.2	261.8
25°	1078.0	954.9	670.9	428.7	293.5	249.0	237.5	237.5	242.8	249.0	249.3
27.5°	1046.0	902.2	579.9	340.4	245.8	224.1	220.3	222.4	229.8	234.5	234.8
30°	1019.6	853.0	493.9	272.8	216.1	204.3	203.4	206.9	212.3	216.7	217.0
32.5°	999.7	809.7	413.6	229.2	195.7	189.2	188.9	191.5	194.5	195.7	196.9
35°	992.0	773.8	340.1	201.6	182.0	177.9	177.9	177.6	178.8	179.4	180.0
37.5°	998.2	746.2	283.1	183.8	172.0	169.0	167.2	165.4	164.8	164.8	165.1
40°	1024.6	731.7	240.7	172.3	164.8	160.4	157.1	155.1	153.0	153.6	154.2
42.5°	1080.6	734.4	212.0	164.5	158.6	152.4	147.6	145.3	143.8	145.6	145.3
45°	1169.9	761.1	193.6	159.2	152.4	144.4	139.9	137.6	137.6	140.2	141.1
47.5°	1294.7	812.0	183.8	155.1	147.6	138.2	133.7	131.9	132.5	137.0	137.3
50°	1447.1	900.7	182.0	153.0	145.3	133.7	128.7	126.9	128.4	133.1	133.7
52.5°	1615.2	1014.8	190.6	153.3	143.2	131.0	124.5	121.9	123.3	127.2	128.4
55°	1814.4	1157.7	212.9	154.5	140.2	129.6	121.6	115.6	117.4	120.1	120.4
57.5°	2017.8	1338.0	252.0	154.8	137.9	126.9	116.5	108.8	108.8	110.6	111.5
60°	2266.3	1534.3	303.6	155.1	138.2	123.0	109.7	101.1	99.9	100.8	101.1
62.5°	2512.9	1698.5	312.2	154.2	141.1	119.2	102.3	93.4	91.3	91.0	90.4
65°	2621.7	1668.0	255.9	150.0	144.4	116.8	96.4	86.0	82.4	81.2	81.2
67.5°	2444.4	1410.9	192.4	144.4	142.3	114.4	90.7	79.8	75.6	73.2	73.2
69°	2277.8	1255.0	172.8	140.5	137.0	110.6	87.2	76.5	71.5	68.8	67.9
70°	2149.1	1147.7	164.5	137.3	131.9	106.1	84.5	74.1	68.5	65.5	64.9
72.5°	1715.1	900.4	144.1	124.8	112.4	89.2	75.0	66.7	61.4	58.1	57.2
75°	988.4	488.0	119.5	108.5	90.4	69.4	63.4	58.1	54.0	51.0	50.1
77.5°	304.2	188.6	86.6	85.7	66.4	53.7	50.7	48.6	45.7	42.4	41.8
80°	128.1	96.1	58.7	57.8	44.2	37.4	36.5	36.2	35.0	32.3	31.4
82.5°	70.3	54.3	40.9	35.6	26.7	21.6	22.5	22.8	21.9	19.3	17.5
85°	34.4	29.6	19.9	16.0	12.2	7.7	7.4	8.9	8.3	5.9	6.5
87.5°	6.8	8.3	5.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
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)