

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: P451750

Luminaire Tested: **GALN-SA2C-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8137 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

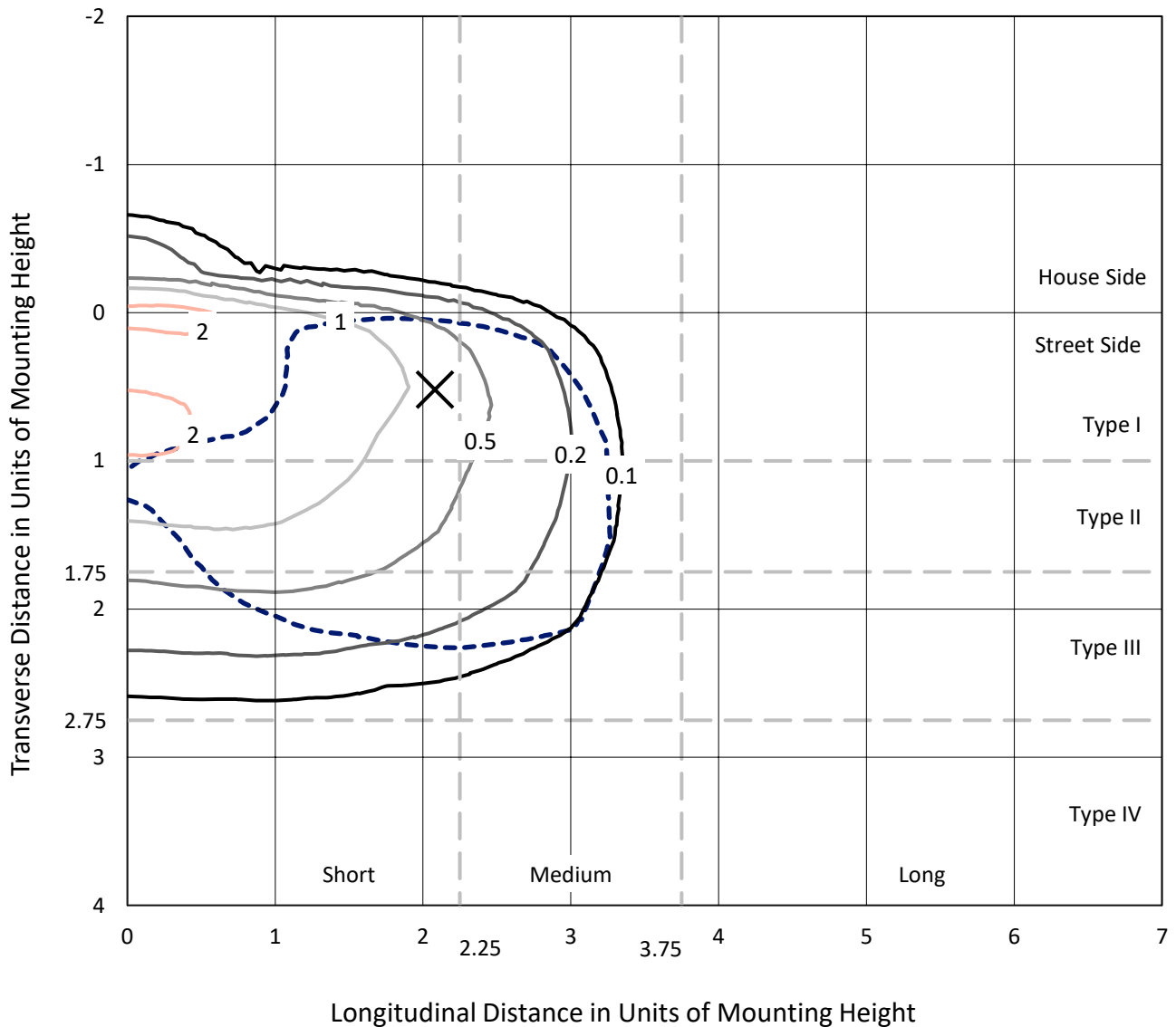
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

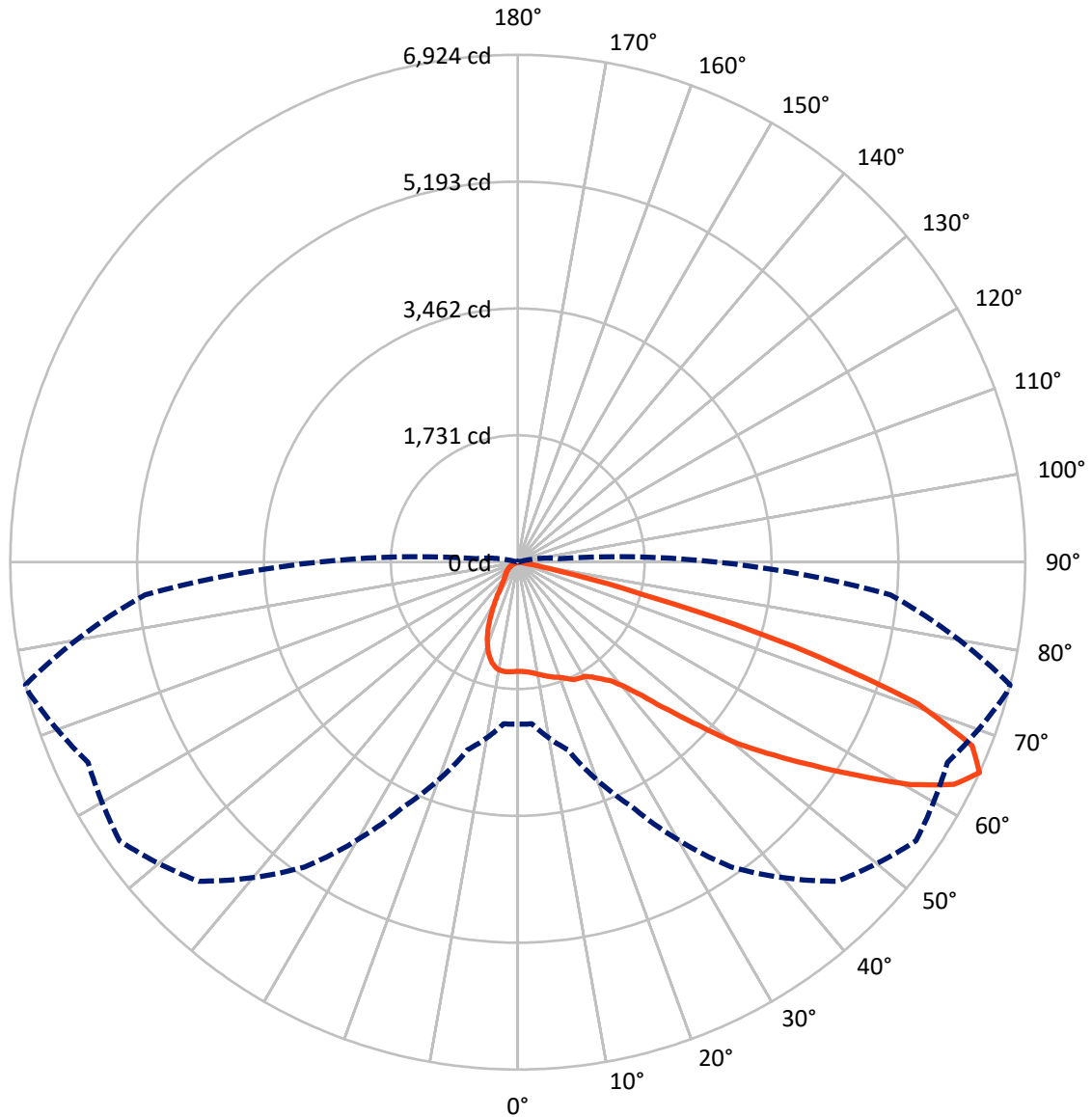
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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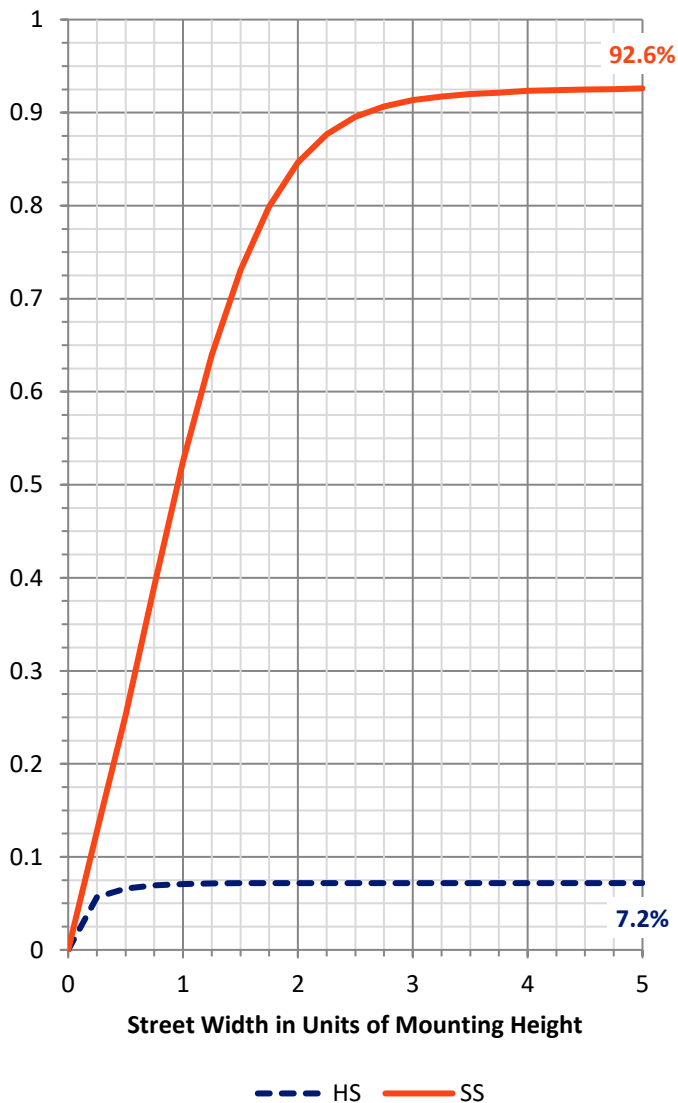
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.7	0.0	587.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	7549.3	0.0	7549.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	8137.0	0.0	8137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.5
10°-20°	273.0	3.4
20°-30°	439.9	5.4
30°-40°	765.0	9.4
40°-50°	1264.0	15.5
50°-60°	1952.7	24.0
60°-70°	2384.5	29.3
70°-80°	905.0	11.1
80°-90°	30.2	0.4
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°	8137.0	100.0
0°-180°	8137.0	100.0

Coefficient of Utilization



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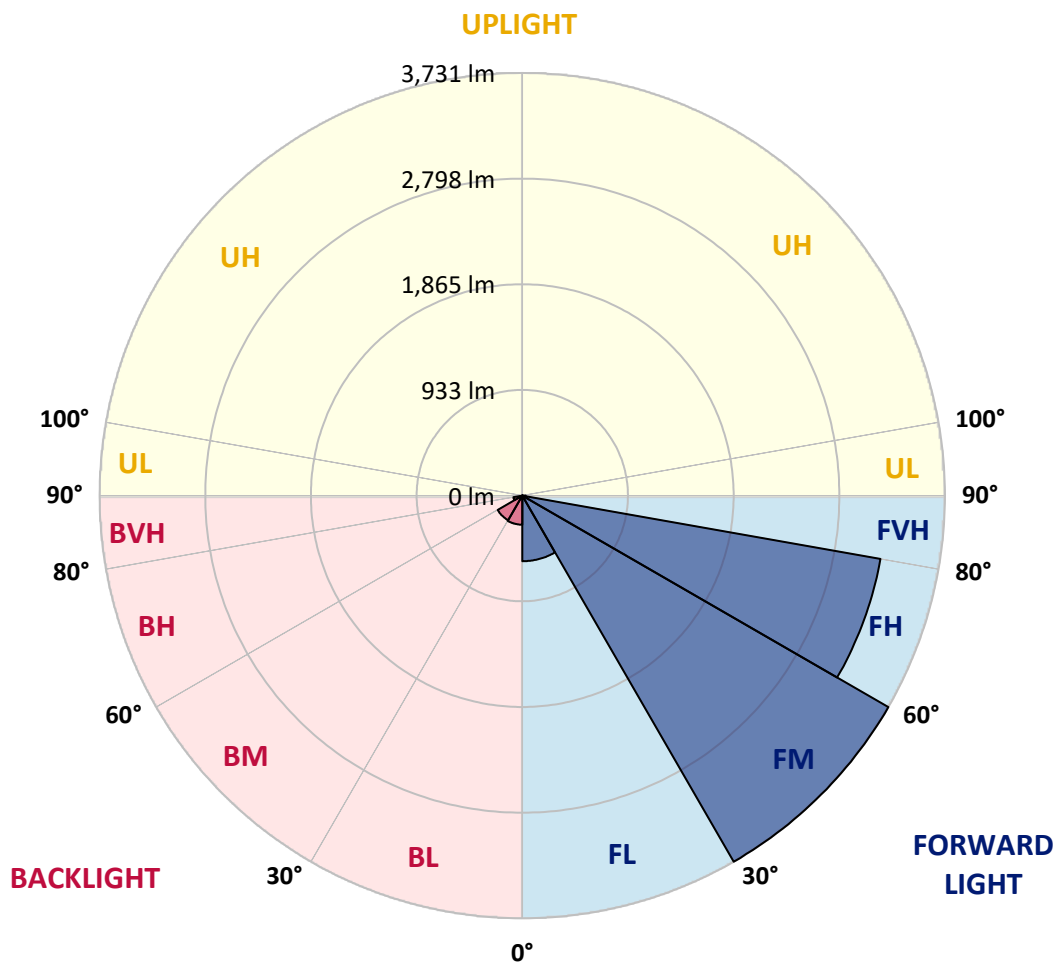
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.9	7.1			
FM (30°-60°)	3730.9	45.9			
FH (60°-80°)	3209.8	39.4			G2/5000
FVH (80°-90°)	29.8	0.4			G1/100
BL (0°-30°)	256.7	3.2	B1/500		
BM (30°-60°)	250.8	3.1	B1/1000		
BH (60°-80°)	79.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	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°	65°	75°	76°	85°
0°	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1422.5	1423.0	1426.5	1435.1	1448.3	1459.2	1468.4	1483.3	1493.7	1494.8	1498.3
5°	1324.2	1317.3	1324.2	1346.6	1366.7	1397.2	1434.5	1471.9	1505.2	1507.5	1523.6
7.5°	1213.9	1219.7	1230.6	1253.5	1291.5	1338.0	1392.0	1458.6	1521.8	1527.6	1559.2
10°	1101.9	1114.5	1132.3	1167.4	1220.2	1280.5	1354.1	1449.5	1548.3	1556.3	1610.9
12.5°	998.5	1004.2	1026.0	1073.2	1138.6	1223.7	1325.4	1444.3	1577.6	1587.3	1666.0
15°	919.2	926.7	945.6	988.1	1061.1	1170.2	1301.8	1442.6	1606.3	1620.1	1721.2
17.5°	904.3	908.9	916.9	945.6	1009.4	1127.7	1280.5	1442.0	1633.9	1650.5	1772.3
20°	965.7	961.7	953.7	950.8	985.8	1095.0	1265.0	1446.6	1660.3	1679.2	1826.3
22.5°	1119.7	1124.9	1077.8	1022.0	1010.5	1089.8	1262.7	1468.4	1702.2	1724.6	1886.6
25°	1446.6	1406.9	1333.4	1200.1	1099.6	1121.4	1288.6	1520.1	1751.1	1775.8	1941.2
27.5°	1807.9	1795.9	1681.5	1462.1	1274.8	1188.1	1334.6	1559.8	1767.1	1792.4	1972.2
30°	2163.0	2177.3	2046.4	1803.9	1529.3	1311.6	1377.6	1574.7	1781.5	1807.9	2011.9
32.5°	2492.2	2509.4	2394.5	2154.4	1829.2	1525.3	1451.7	1632.7	1841.8	1868.8	2077.9
35°	2751.3	2753.6	2666.8	2475.5	2156.7	1785.0	1612.0	1734.4	1923.4	1955.0	2148.0
37.5°	2989.1	2985.7	2884.0	2719.1	2429.5	2042.9	1813.7	1851.6	2016.5	2049.2	2249.1
40°	3165.5	3167.8	3135.0	2979.9	2684.0	2281.3	1973.4	1961.3	2172.7	2223.9	2396.2
42.5°	3283.2	3304.5	3320.6	3241.9	3004.0	2574.9	2218.7	2196.3	2443.9	2486.4	2604.2
45°	3378.6	3416.5	3497.0	3492.9	3311.4	2935.1	2555.4	2509.4	2828.2	2873.6	2869.0
47.5°	3448.1	3486.6	3619.9	3700.3	3600.4	3284.4	2978.8	2939.1	3287.3	3336.7	3161.4
50°	3483.7	3529.7	3699.7	3855.4	3826.1	3621.0	3461.3	3463.6	3841.6	3889.3	3500.4
52.5°	3400.4	3460.2	3742.3	4022.6	4079.5	3943.3	3913.5	3989.3	4335.1	4375.9	3806.6
55°	3134.4	3209.7	3684.2	4165.1	4373.1	4323.7	4427.1	4542.5	4874.6	4901.0	4120.9
57.5°	2966.1	3046.0	3513.0	4286.3	4725.8	4801.6	4965.4	5049.8	5431.3	5498.5	4481.6
60°	2824.2	2886.8	3372.3	4312.2	5084.3	5386.5	5545.6	5632.9	6118.4	6162.0	4878.6
62.5°	2588.1	2659.9	3134.4	4131.8	5264.7	5854.7	6184.4	6145.4	6649.8	6680.2	5122.2
65°	2208.4	2214.7	2651.9	3678.5	5078.5	6158.6	6633.1	6469.4	6903.7	6924.4	5103.2
67.5°	1648.2	1709.1	2040.0	2891.4	4289.8	5898.9	6778.5	6478.0	6743.4	6686.0	4698.2
70°	1061.7	1108.2	1382.8	2005.0	3093.1	4922.8	6296.5	6033.9	5918.4	5790.9	3845.7
72.5°	490.0	549.8	821.5	1145.5	1834.4	3506.7	5111.3	4902.2	4259.9	3945.1	2444.5
75°	213.7	228.6	405.6	604.4	860.0	1854.5	3370.0	3043.1	1924.0	1757.4	978.4
77.5°	130.4	140.2	212.6	324.0	337.8	706.6	1815.4	1327.7	594.6	524.5	265.4
80°	88.5	99.4	154.5	169.5	115.5	197.1	681.4	354.5	120.1	114.9	56.9
82.5°	43.1	54.6	114.3	94.8	50.0	63.2	198.2	75.8	35.0	32.7	20.1
85°	6.3	10.9	64.3	62.0	22.4	14.9	35.0	19.0	12.1	11.5	9.2
87.5°	0.0	0.0	21.8	9.8	2.3	2.3	4.0	4.0	4.6	4.0	4.6
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°	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5	1488.5
2.5°	1500.0	1502.9	1492.0	1476.5	1459.8	1443.1	1419.6	1398.3	1385.7	1393.2	1374.8
5°	1527.0	1524.7	1496.0	1448.9	1386.3	1311.0	1236.3	1172.5	1151.9	1120.8	1117.4
7.5°	1564.4	1558.0	1497.1	1389.1	1247.8	1106.5	968.6	877.3	825.0	780.7	781.9
10°	1616.6	1598.2	1483.9	1284.0	1051.3	838.2	662.4	541.7	489.5	472.8	459.6
12.5°	1670.6	1635.0	1447.2	1142.1	818.7	572.8	402.7	329.2	297.0	286.7	285.5
15°	1718.9	1662.6	1382.8	971.5	595.2	366.0	274.6	250.5	246.5	247.0	246.5
17.5°	1766.6	1684.4	1293.8	790.5	404.4	262.5	236.1	230.4	232.1	234.4	233.8
20°	1806.2	1689.0	1180.0	603.2	286.1	230.4	221.8	220.6	222.3	224.1	224.1
22.5°	1849.3	1692.5	1045.0	417.7	233.8	214.3	209.7	209.7	212.0	214.3	214.9
25°	1881.5	1673.5	883.6	299.9	206.2	198.8	196.5	197.1	199.3	200.5	199.9
27.5°	1886.6	1620.1	712.4	229.8	187.3	179.8	177.5	179.8	176.9	178.7	177.5
30°	1891.2	1552.3	538.9	193.6	170.1	158.6	155.1	151.7	149.4	146.5	145.9
32.5°	1905.6	1472.4	393.5	174.1	154.0	141.3	133.3	123.5	116.0	113.8	113.2
35°	1911.9	1376.5	289.0	158.6	139.6	125.8	111.5	97.7	86.7	82.7	85.6
37.5°	1936.0	1283.4	224.1	147.1	127.0	109.7	91.3	74.1	63.8	61.5	62.6
40°	1985.5	1182.3	187.9	137.3	116.0	94.8	72.4	55.7	48.8	46.5	46.0
42.5°	2064.7	1081.8	167.2	128.1	105.1	79.9	56.9	43.7	37.9	36.2	36.2
45°	2161.3	985.3	152.8	118.3	93.6	64.3	44.8	35.0	31.6	30.4	30.4
47.5°	2288.2	900.8	140.8	108.6	81.0	51.1	36.2	30.4	28.2	28.7	29.3
50°	2416.9	838.2	127.5	97.7	66.6	41.9	31.0	27.0	26.4	27.0	27.0
52.5°	2514.0	801.4	109.7	82.7	52.3	35.0	27.6	25.3	24.7	23.6	23.6
55°	2645.0	793.4	87.3	67.2	41.4	29.3	24.7	23.0	21.3	20.1	19.5
57.5°	2813.3	802.6	67.2	52.3	32.2	24.1	21.8	19.0	16.7	14.4	14.4
60°	2917.9	781.9	52.3	40.2	23.6	19.5	16.7	13.8	10.9	9.2	8.6
62.5°	2884.5	694.6	41.4	29.9	16.7	14.4	10.9	9.2	6.3	4.6	4.0
65°	2712.8	560.7	33.3	20.7	12.1	8.6	5.7	5.7	2.9	0.6	0.0
67.5°	2374.4	415.4	26.4	13.8	6.9	4.0	2.9	1.7	0.0	0.0	0.0
70°	1932.6	299.9	20.7	8.6	4.0	2.9	1.1	0.6	0.0	0.0	0.0
72.5°	1227.1	171.8	16.1	5.2	2.9	1.1	0.0	0.0	0.0	0.0	0.0
75°	474.5	67.2	10.9	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	134.4	31.6	6.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.0	13.8	3.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.6	0.0	0.0	0.0	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)