

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: P321716

Luminaire Tested: **GLEON-SA2B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 6611 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

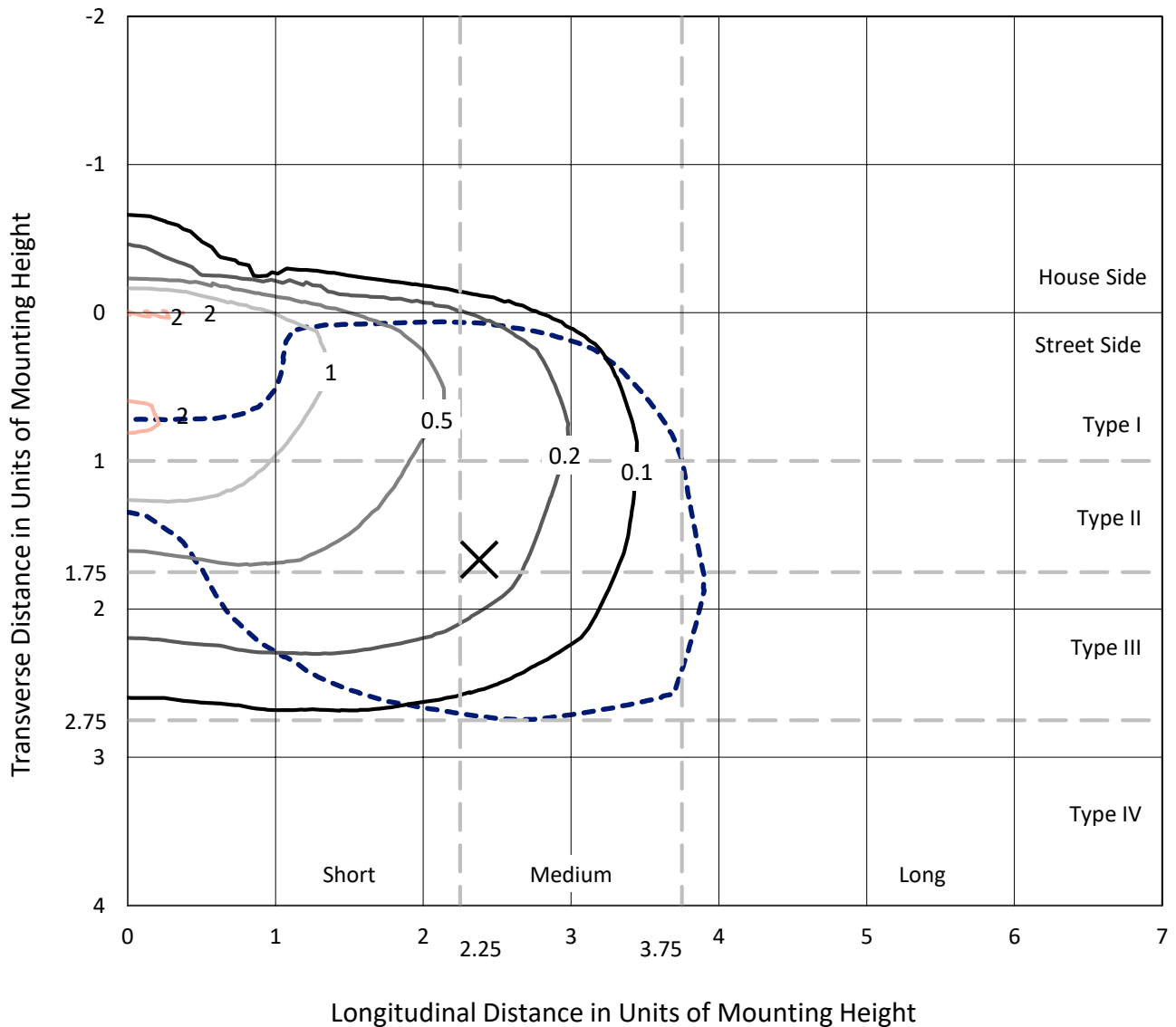
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

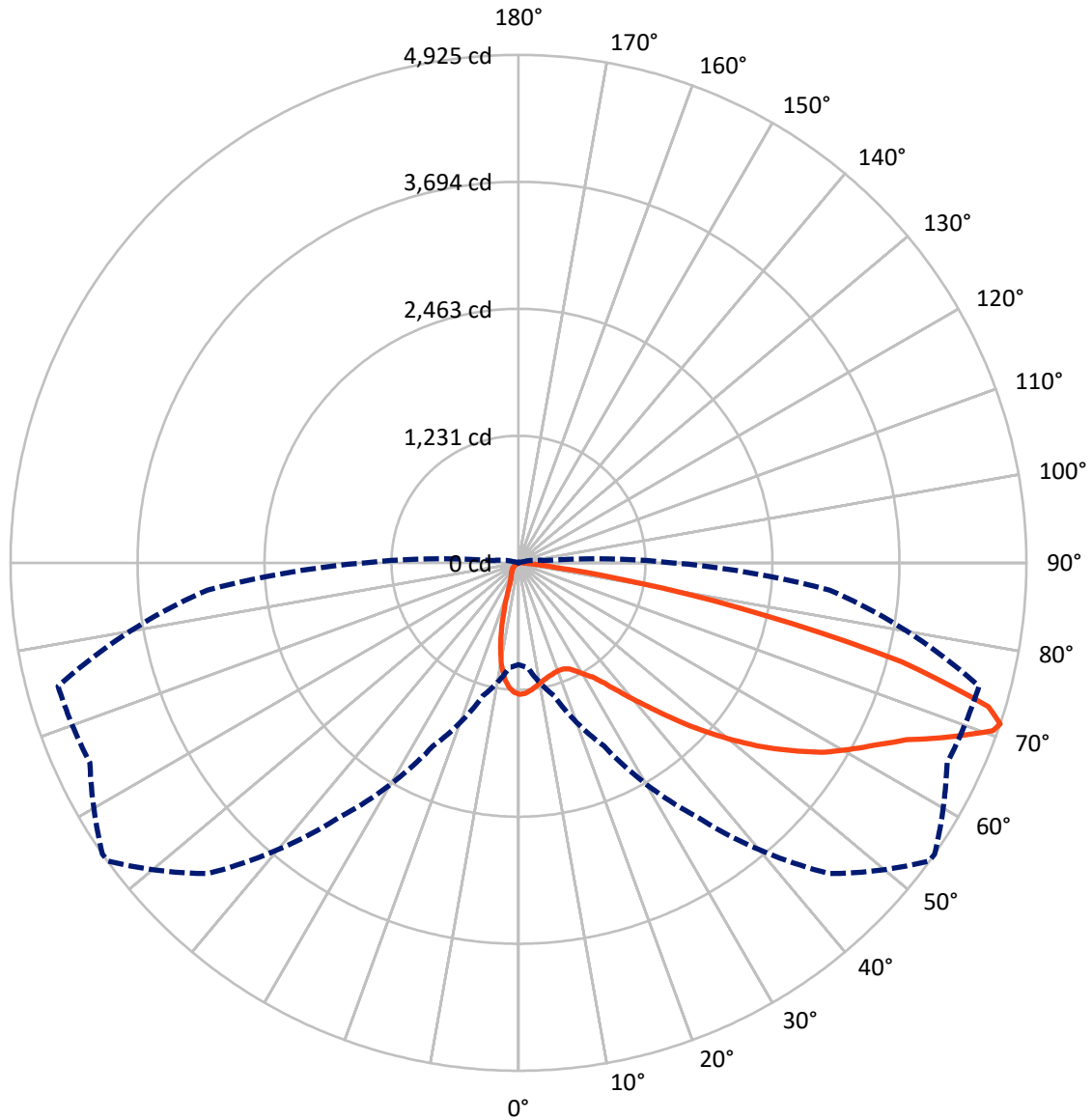
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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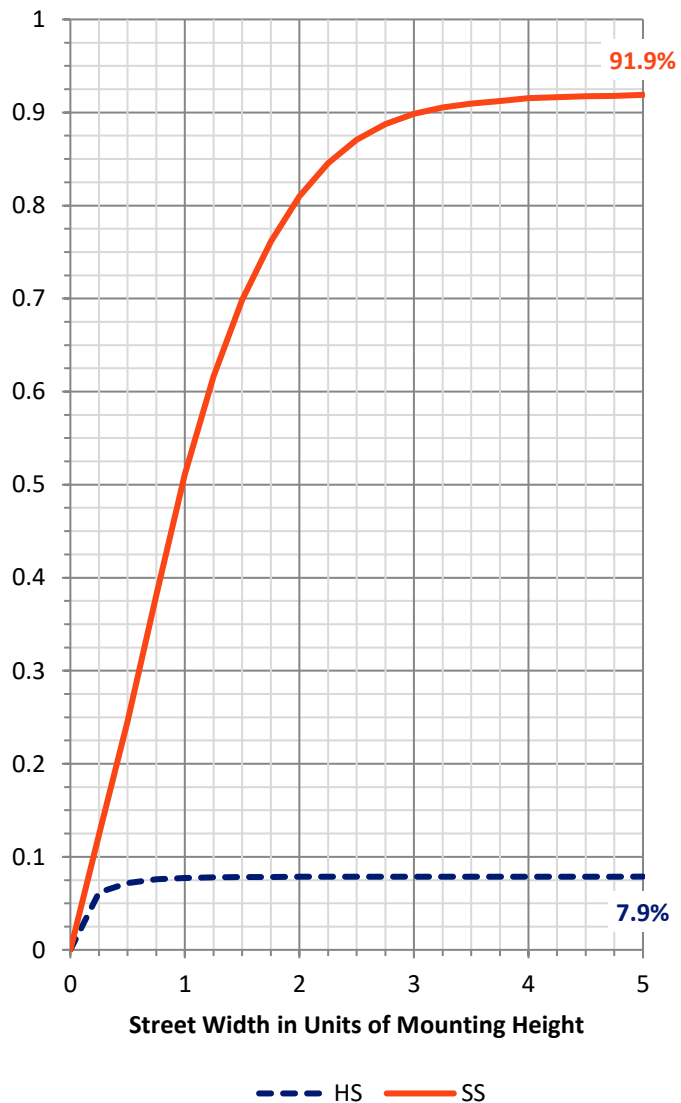
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	523.4	0.0	523.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	6087.6	0.0	6087.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	6611.0	0.0	6611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.6
10°-20°	245.4	3.7
20°-30°	394.4	6.0
30°-40°	670.1	10.1
40°-50°	1040.1	15.7
50°-60°	1398.3	21.2
60°-70°	1710.6	25.9
70°-80°	1000.2	15.1
80°-90°	43.2	0.7
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°	6611.0	100.0
0°-180°	6611.0	100.0

Coefficient of Utilization

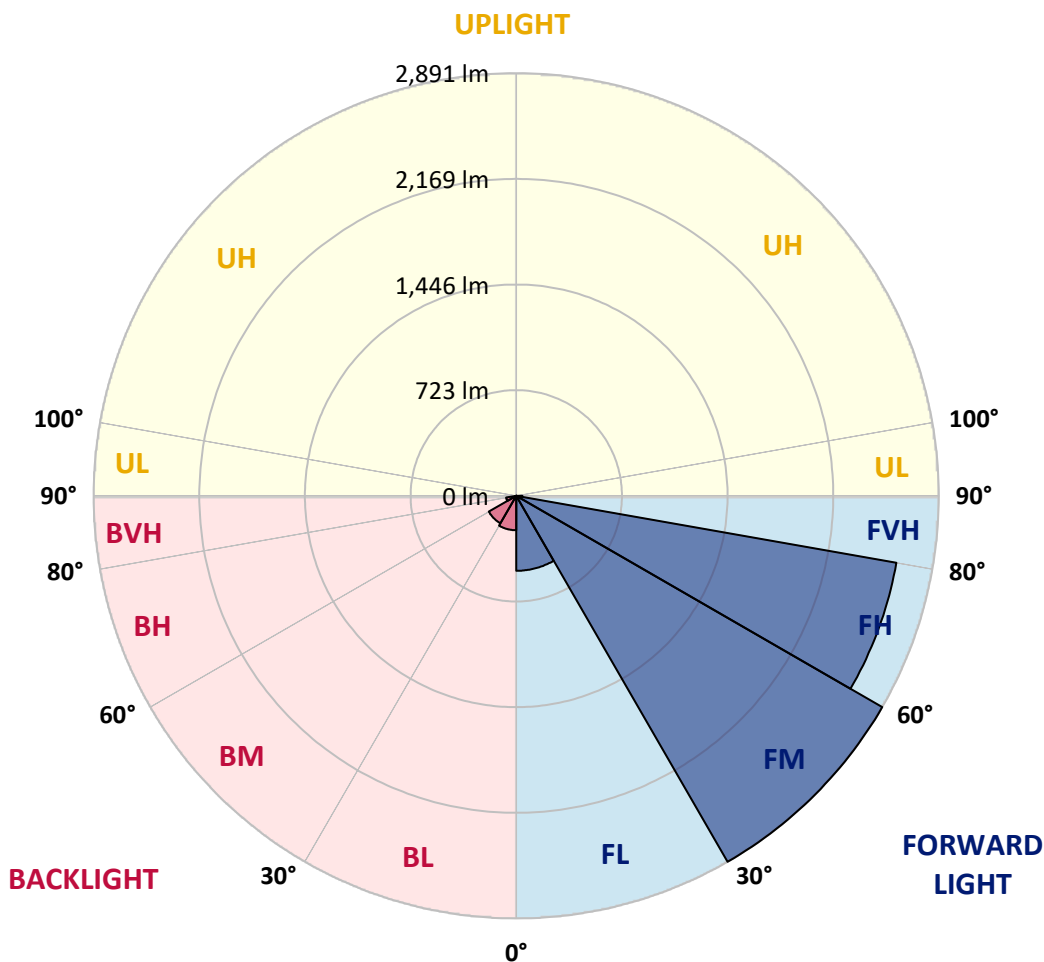


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	512.9	7.8			
FM (30°-60°)	2891.5	43.7			
FH (60°-80°)	2640.7	39.9			G2/5000
FVH (80°-90°)	42.5	0.6			G1/100
BL (0°-30°)	235.6	3.6	B1/500		
BM (30°-60°)	217.0	3.3	B0/220		
BH (60°-80°)	70.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1237.6	1239.0	1244.4	1246.8	1252.4	1261.9	1266.6	1266.9	1274.7	1277.6	1280.0
5°	1150.0	1158.9	1167.8	1177.3	1194.5	1217.4	1239.9	1242.0	1266.9	1285.3	1295.1
7.5°	1074.6	1082.6	1093.3	1108.4	1132.8	1168.7	1206.4	1210.8	1258.0	1299.9	1321.9
10°	997.1	1003.6	1019.1	1041.3	1074.9	1123.0	1173.7	1181.2	1250.0	1319.5	1358.1
12.5°	914.3	918.1	936.8	968.9	1018.2	1079.3	1146.1	1155.9	1245.0	1342.0	1400.8
15°	851.4	853.1	870.9	904.2	960.6	1040.1	1124.8	1136.6	1246.2	1369.1	1447.4
17.5°	835.3	836.2	845.7	868.6	918.4	1005.1	1107.8	1122.4	1249.7	1395.5	1494.3
20°	900.3	894.1	884.3	880.7	902.1	984.0	1097.7	1114.1	1254.5	1418.9	1536.5
22.5°	1078.7	1060.3	1019.7	965.3	932.4	985.5	1100.4	1116.7	1269.6	1447.7	1585.2
25°	1343.5	1318.0	1248.8	1142.0	1039.3	1028.3	1122.7	1139.3	1299.0	1482.2	1631.8
27.5°	1644.8	1619.6	1535.0	1382.4	1207.3	1112.9	1173.7	1189.2	1342.6	1512.7	1667.4
30°	1933.4	1926.2	1826.5	1653.1	1418.6	1250.0	1239.6	1252.7	1375.0	1531.1	1695.6
32.5°	2178.0	2166.7	2086.5	1917.9	1660.6	1414.8	1317.1	1321.0	1399.3	1554.9	1732.4
35°	2404.8	2390.8	2320.4	2161.0	1908.7	1616.0	1436.4	1430.8	1452.5	1602.7	1785.8
37.5°	2602.7	2615.5	2537.4	2385.8	2131.4	1825.3	1597.3	1580.4	1535.6	1680.4	1863.3
40°	2768.4	2768.4	2727.7	2601.3	2371.8	2041.7	1779.3	1757.0	1660.6	1800.4	1961.6
42.5°	2828.1	2840.8	2856.0	2784.4	2587.0	2266.7	1982.0	1958.9	1836.6	1970.5	2085.6
45°	2831.6	2851.8	2929.3	2929.0	2781.5	2490.2	2210.6	2199.6	2062.2	2188.9	2239.4
47.5°	2781.5	2806.7	2934.3	3006.8	2935.5	2698.3	2460.6	2446.9	2327.3	2456.7	2400.3
50°	2704.0	2731.9	2880.3	3037.3	3040.3	2879.4	2723.9	2703.4	2619.1	2762.7	2566.5
52.5°	2565.3	2619.4	2831.9	3044.5	3109.2	3035.8	2974.4	2965.5	2945.6	3057.5	2698.9
55°	2268.8	2328.8	2710.5	3046.8	3173.0	3174.5	3209.2	3211.6	3251.7	3333.0	2797.5
57.5°	2128.7	2162.5	2498.6	3058.1	3267.7	3331.8	3448.5	3466.9	3528.9	3594.5	2910.0
60°	2040.5	2080.6	2394.1	3042.7	3416.4	3538.1	3670.2	3676.4	3742.9	3864.3	3062.3
62.5°	1970.2	2009.6	2328.2	2983.3	3583.5	3786.3	3886.9	3887.5	3937.4	4185.8	3235.3
65°	1796.5	1829.8	2194.9	2916.5	3694.0	4031.8	4138.6	4134.8	4175.4	4524.8	3436.3
67.5°	1545.4	1570.9	1922.7	2663.3	3652.4	4255.0	4518.6	4505.8	4456.6	4817.8	3515.3
70°	1194.8	1204.0	1515.4	2219.5	3262.9	4340.8	4885.8	4879.3	4629.0	4765.3	3225.8
71°	987.6	1017.9	1335.5	1958.9	3002.0	4261.5	4921.4	4925.3	4585.7	4622.2	3026.6
72.5°	573.5	599.3	968.0	1504.4	2548.7	3930.8	4736.8	4764.7	4383.2	4204.2	2585.2
75°	122.9	131.5	358.9	728.2	1402.0	2755.0	3738.8	3838.2	3572.5	2860.1	1558.1
77.5°	85.5	92.3	153.8	330.4	463.4	1361.3	2322.5	2434.7	2134.3	1074.9	498.7
80°	67.7	75.4	119.9	163.3	125.3	439.0	1087.9	1156.5	711.8	239.9	84.0
82.5°	37.7	44.8	93.5	88.2	48.1	83.4	304.6	344.3	142.5	48.4	19.9
85°	11.0	13.4	60.3	64.1	20.5	16.0	51.9	64.4	27.0	12.8	8.9
87.5°	0.0	0.0	29.1	24.6	5.9	2.4	4.7	5.3	5.3	5.3	5.9
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°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1280.0	1282.1	1274.7	1264.9	1254.5	1241.7	1228.4	1218.0	1217.7	1212.6	1207.6
5°	1295.7	1294.5	1274.1	1242.9	1206.1	1167.8	1131.3	1090.0	1076.4	1059.4	1053.8
7.5°	1324.8	1316.5	1273.2	1204.9	1124.2	1044.0	961.2	877.8	842.2	810.1	804.5
10°	1361.3	1345.6	1267.5	1147.9	999.8	851.9	727.0	613.6	563.7	525.4	523.6
12.5°	1399.3	1375.3	1251.8	1061.8	836.8	629.0	485.0	373.4	331.9	305.2	307.5
15°	1439.1	1403.2	1218.0	945.8	651.3	426.9	298.0	232.4	215.8	209.0	210.8
17.5°	1479.8	1422.5	1170.8	805.9	468.1	275.5	206.3	187.9	187.9	189.4	190.0
20°	1515.1	1432.9	1101.3	649.2	317.3	200.7	180.5	177.8	179.3	181.7	182.0
22.5°	1550.1	1433.5	1010.8	490.4	222.0	175.7	171.9	170.7	171.6	174.2	174.5
25°	1578.6	1426.3	897.4	348.8	177.2	165.6	163.9	163.3	163.9	167.1	167.1
27.5°	1590.2	1400.5	759.0	245.2	158.8	154.4	153.8	154.4	155.3	157.6	157.9
30°	1591.4	1355.4	608.2	177.5	144.0	139.2	140.4	142.5	141.6	141.0	141.6
32.5°	1594.4	1303.2	461.3	146.0	131.5	124.1	122.6	122.6	119.0	117.0	115.8
35°	1604.2	1241.7	334.5	131.2	118.7	110.1	104.5	98.0	91.1	87.6	86.7
37.5°	1619.6	1177.3	239.6	121.4	107.5	97.7	87.0	75.4	65.6	62.9	62.9
40°	1647.8	1110.8	177.2	113.7	98.6	86.4	70.4	55.2	46.3	44.8	44.8
42.5°	1692.3	1040.7	141.3	106.9	90.8	74.8	53.7	40.1	33.5	32.7	32.4
45°	1738.6	963.6	123.5	100.3	82.5	61.4	39.8	29.7	25.8	24.9	24.9
47.5°	1784.9	881.3	114.9	94.1	74.5	47.8	29.7	23.5	21.7	21.7	22.0
50°	1824.1	795.5	108.6	87.3	64.1	36.2	23.5	19.9	19.3	20.5	20.8
52.5°	1833.9	711.2	100.9	78.7	51.4	27.6	19.3	17.5	17.5	17.5	17.5
55°	1828.0	645.9	90.8	68.0	38.0	22.0	16.6	15.4	15.1	15.1	15.1
57.5°	1848.2	607.3	72.7	52.8	27.3	17.8	14.5	13.7	13.1	12.8	12.8
60°	1888.8	582.1	51.9	38.0	20.5	14.8	12.5	11.6	10.7	10.1	10.1
62.5°	1942.9	560.1	38.6	28.2	15.7	11.9	10.4	9.5	8.3	7.7	7.7
65°	1984.4	521.0	29.4	21.1	11.9	9.5	8.0	7.7	5.9	5.3	5.0
67.5°	1920.9	434.9	23.7	15.4	8.9	7.4	6.2	5.9	3.6	3.0	3.0
70°	1647.5	302.8	19.0	11.3	6.5	5.9	5.0	3.9	2.7	2.4	2.4
71°	1494.0	252.9	17.2	9.5	5.6	5.6	4.7	3.3	2.4	2.1	2.1
72.5°	1241.1	179.6	14.5	7.4	5.0	5.9	5.0	3.0	2.4	2.1	1.8
75°	720.4	75.1	10.1	5.0	3.9	7.1	6.5	2.7	1.8	1.5	1.5
77.5°	216.7	27.6	5.6	3.3	3.0	6.2	7.4	2.4	0.9	0.3	0.3
80°	39.5	11.9	3.6	2.1	2.1	3.9	5.6	1.2	0.0	0.0	0.0
82.5°	14.0	5.9	2.1	1.2	0.9	1.8	2.7	0.0	0.0	0.0	0.0
85°	8.0	4.2	1.2	0.6	0.0	0.3	0.6	0.0	0.0	0.0	0.0
87.5°	5.3	1.2	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)