

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: P322677

Luminaire Tested: **GLEON-SA3B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9107 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

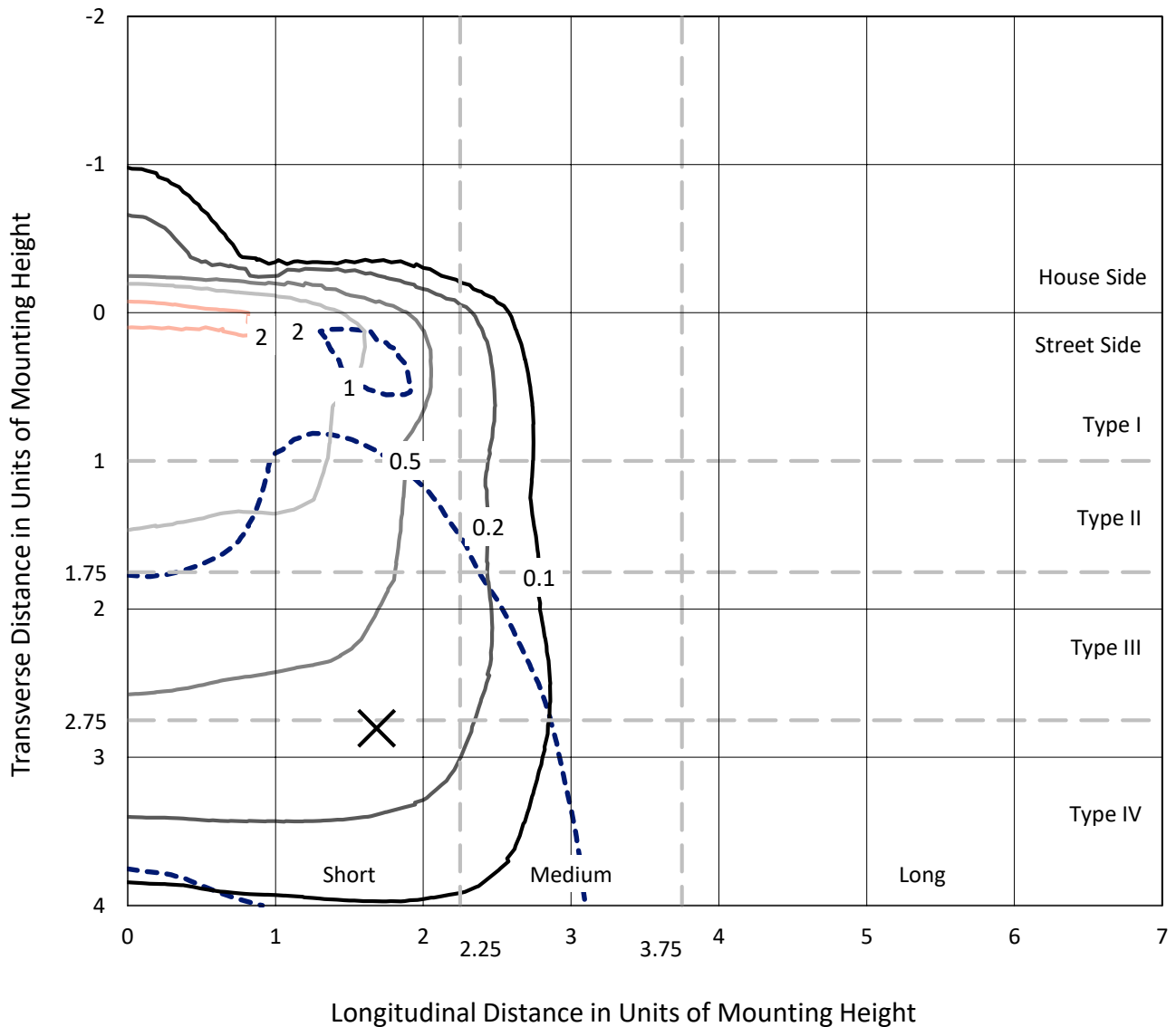
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

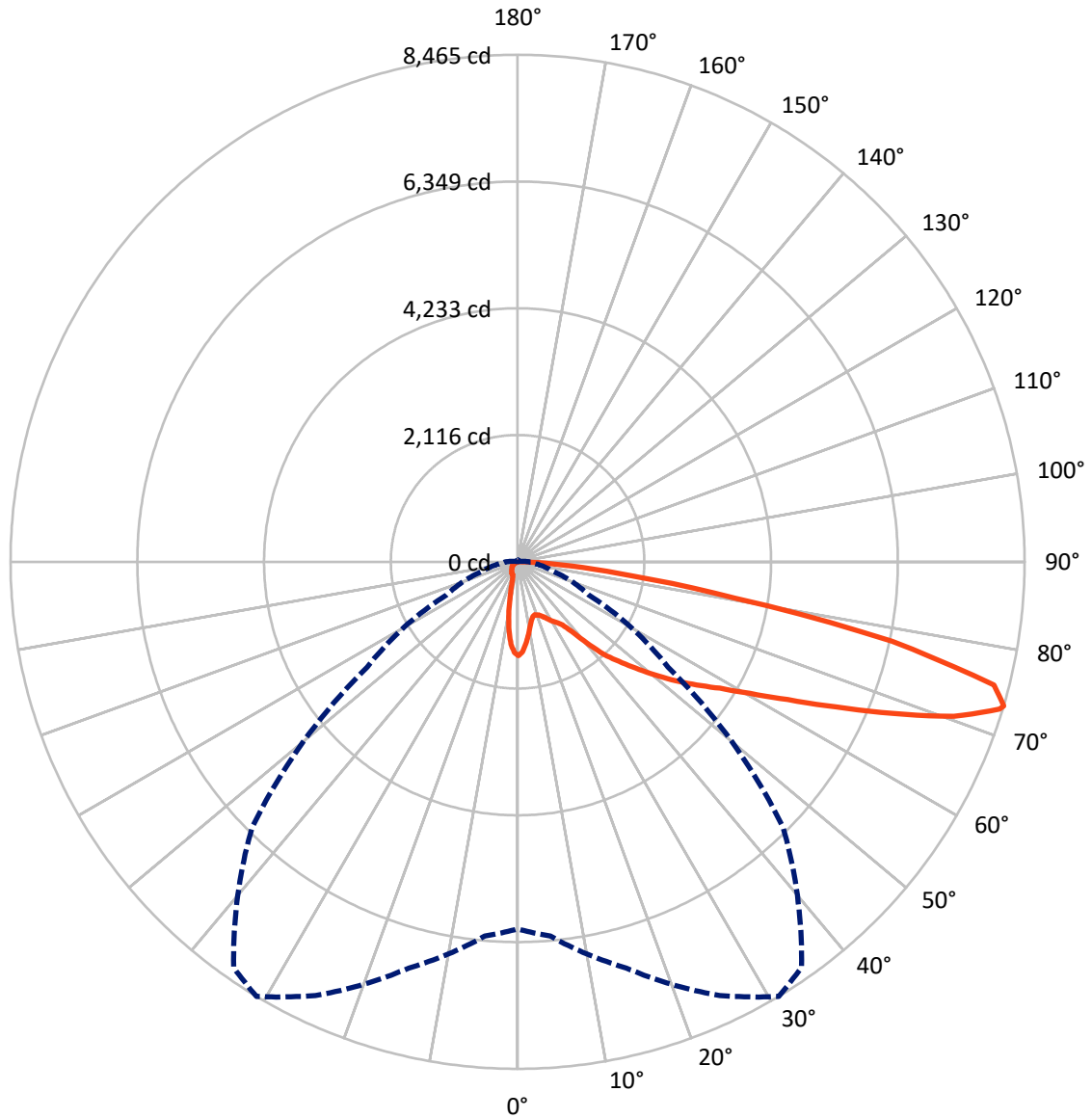
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	830.1	0.0	830.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8276.9	0.0	8276.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	9107.0	0.0	9107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.4
10°-20°	282.1	3.1
20°-30°	422.6	4.6
30°-40°	672.4	7.4
40°-50°	1200.8	13.2
50°-60°	1863.3	20.5
60°-70°	2476.9	27.2
70°-80°	1863.2	20.5
80°-90°	195.8	2.1
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°	9107.0	100.0
0°-180°	9107.0	100.0

Coefficient of Utilization



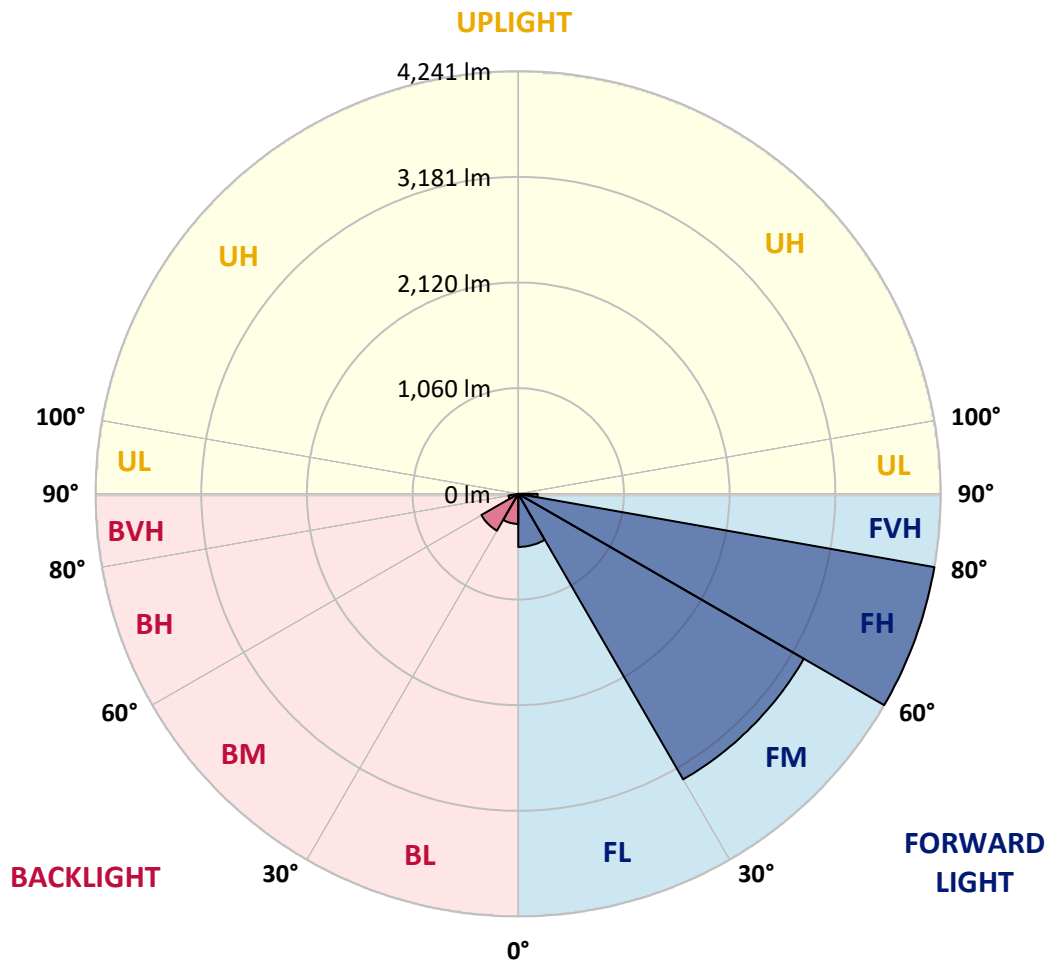
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.8	5.9			
FM (30°-60°)	3309.2	36.3			
FH (60°-80°)	4240.8	46.6			G2/5000
FVH (80°-90°)	194.1	2.1			G2/225
BL (0°-30°)	301.9	3.3	B1/500		
BM (30°-60°)	427.3	4.7	B1/1000		
BH (60°-80°)	99.3	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9
2.5°	1484.9	1491.1	1497.8	1499.1	1510.3	1510.7	1526.8	1538.8	1550.8	1562.4	1566.4
5°	1332.5	1342.7	1354.8	1366.8	1390.4	1399.8	1439.0	1479.1	1517.4	1554.0	1571.8
7.5°	1169.8	1181.4	1198.3	1228.2	1254.5	1272.8	1334.7	1406.0	1477.3	1544.6	1583.4
10°	1021.4	1032.1	1049.9	1081.6	1122.1	1147.1	1230.4	1329.4	1434.1	1536.1	1600.7
12.5°	926.9	932.7	942.5	976.4	1012.9	1041.0	1139.1	1261.6	1398.4	1535.7	1628.8
15°	909.6	911.3	903.3	918.5	947.0	974.2	1073.6	1206.8	1371.2	1542.8	1665.4
17.5°	937.2	936.3	909.6	907.8	930.5	952.8	1041.5	1168.9	1352.1	1559.3	1712.6
20°	979.1	976.0	929.6	921.1	945.2	966.2	1039.2	1154.7	1344.9	1586.9	1770.1
22.5°	1034.8	1029.4	956.8	947.9	973.7	995.6	1066.9	1168.5	1351.2	1623.9	1836.9
25°	1103.9	1095.8	1003.6	993.8	1020.1	1041.9	1116.3	1208.1	1369.9	1668.9	1921.6
27.5°	1181.8	1170.3	1078.5	1053.1	1082.9	1105.6	1182.3	1268.7	1399.3	1716.6	2025.4
30°	1255.4	1240.2	1157.3	1115.4	1152.0	1177.4	1253.6	1340.9	1446.6	1790.1	2167.6
32.5°	1329.4	1312.4	1227.7	1177.8	1210.8	1238.4	1327.1	1440.3	1535.2	1902.4	2356.6
35°	1499.6	1481.8	1377.9	1295.5	1295.0	1310.6	1430.1	1576.2	1652.4	2058.9	2582.1
37.5°	1786.1	1775.9	1677.0	1520.5	1478.6	1461.3	1570.4	1738.5	1820.9	2274.1	2836.5
40°	2099.9	2091.0	1980.0	1838.3	1774.5	1731.8	1771.9	1964.4	2058.9	2537.0	3096.3
42.5°	2454.2	2411.8	2214.0	2171.6	2114.6	2082.0	2045.9	2242.9	2351.2	2823.1	3353.9
45°	2775.9	2704.6	2447.9	2383.7	2370.8	2378.8	2398.9	2617.3	2680.1	3163.2	3610.6
47.5°	2967.5	2911.4	2714.4	2652.9	2649.3	2702.4	2853.9	3040.2	3007.6	3459.5	3836.5
50°	3149.8	3099.0	2935.4	2950.6	2967.1	3039.3	3370.4	3475.1	3306.7	3728.2	4043.8
52.5°	3297.3	3219.8	3134.2	3219.3	3300.4	3416.7	3903.4	3865.5	3518.8	3942.2	4221.1
55°	3382.4	3347.2	3388.7	3474.2	3626.6	3815.6	4406.5	4190.4	3673.9	4137.3	4339.2
57.5°	3694.4	3625.3	3707.7	3781.7	3980.5	4244.7	4837.4	4432.4	3785.7	4258.1	4366.4
60°	4071.8	4016.1	4064.7	4187.7	4456.0	4766.6	5240.3	4629.8	3844.1	4335.7	4296.0
62.5°	4672.6	4599.0	4568.7	4706.4	5062.0	5401.2	5546.0	4766.6	3831.2	4301.3	4054.5
65°	5477.4	5401.2	5265.7	5390.5	5842.8	6082.1	5887.8	4795.6	3742.1	4023.7	3443.9
67.5°	6301.8	6246.6	6130.7	6341.0	6749.3	6826.3	6249.2	4725.1	3455.1	3262.5	2433.2
70°	6846.4	6822.8	6898.1	7363.3	7727.4	7705.2	6580.8	4346.8	2693.0	2006.3	1203.7
72.5°	6453.8	6567.0	7123.1	7966.7	8411.5	8229.7	6410.6	3337.9	1539.2	771.9	348.0
73°	6128.5	6273.3	7022.0	7989.5	8465.4	8266.2	6267.5	3063.8	1312.0	609.2	263.8
75°	4263.5	4441.3	5813.4	7440.9	8213.2	7875.8	5224.3	1875.3	607.9	270.1	106.5
77.5°	2070.0	2201.5	3201.0	5376.2	6387.4	6153.4	3252.3	698.8	274.5	168.9	49.0
80°	772.7	859.2	1389.5	2736.2	3691.3	3788.0	1430.5	264.3	182.7	135.9	25.0
82.5°	202.3	225.5	512.5	1220.2	1891.8	1980.0	451.0	133.2	133.7	111.9	15.2
85°	64.6	74.0	160.0	547.7	891.3	782.5	117.6	64.6	97.2	83.3	8.5
87.5°	8.0	10.2	50.8	128.8	196.5	109.2	18.3	19.2	41.4	46.3	4.9
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°	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9	1566.9
2.5°	1570.4	1568.2	1568.7	1557.1	1549.5	1534.3	1518.7	1511.6	1504.0	1500.9	1504.0
5°	1578.5	1574.5	1562.9	1527.2	1489.3	1440.3	1394.4	1359.7	1316.0	1303.9	1316.4
7.5°	1590.9	1582.9	1549.1	1476.4	1392.2	1298.6	1193.4	1116.8	1053.9	1013.4	1028.1
10°	1609.2	1594.1	1525.9	1402.4	1251.8	1086.0	936.7	820.4	738.0	704.1	702.8
12.5°	1640.0	1611.4	1497.4	1306.2	1080.2	859.2	663.6	537.4	470.6	427.4	426.5
15°	1673.8	1631.9	1461.3	1190.8	880.6	615.4	427.4	331.6	288.3	274.5	272.7
17.5°	1715.3	1655.6	1414.5	1048.6	671.6	407.8	279.0	251.3	249.6	248.2	248.2
20°	1767.4	1683.6	1354.3	885.9	476.4	272.3	237.1	238.9	239.8	238.0	238.4
22.5°	1828.0	1712.2	1282.6	711.2	322.2	227.7	226.8	229.1	230.0	229.1	229.5
25°	1898.4	1745.1	1195.2	528.1	232.6	216.1	218.4	221.5	223.7	223.7	223.7
27.5°	1985.8	1785.2	1090.0	368.5	201.0	204.1	210.3	216.1	219.3	220.1	220.1
30°	2099.4	1835.2	963.9	252.7	182.7	188.1	199.6	210.8	216.6	217.5	217.9
32.5°	2242.9	1891.3	817.8	186.7	167.1	171.1	183.6	202.3	213.5	215.2	215.2
35°	2407.4	1956.4	660.4	162.7	156.0	157.3	167.1	188.5	208.1	213.0	213.5
37.5°	2587.4	2020.5	502.2	152.0	146.6	146.6	153.7	172.0	195.2	210.3	212.1
40°	2755.4	2059.3	352.1	143.5	138.1	138.1	144.4	157.8	179.6	202.3	207.2
42.5°	2910.5	2072.7	245.1	135.5	130.1	131.5	136.8	147.5	164.0	186.7	191.2
45°	3070.0	2070.5	178.7	126.1	122.1	126.1	130.1	138.1	150.2	163.1	164.0
47.5°	3190.4	2051.7	141.7	117.2	114.5	119.9	123.4	128.8	135.5	134.6	134.6
50°	3303.1	2006.3	114.1	105.2	107.0	113.2	115.0	116.8	117.2	108.7	107.8
52.5°	3388.7	1935.4	91.4	92.2	99.4	105.6	103.8	101.2	96.7	86.5	84.7
55°	3417.2	1799.1	71.7	76.2	88.2	96.3	89.6	83.8	75.3	66.8	65.1
57.5°	3365.5	1623.0	58.4	59.3	74.4	81.1	73.5	66.8	57.5	50.4	49.0
60°	3255.9	1427.4	48.1	44.6	57.5	63.3	58.4	51.7	43.2	37.9	37.4
62.5°	3038.4	1218.8	39.7	34.8	43.7	48.6	45.5	40.6	33.4	29.9	29.4
65°	2581.2	975.1	32.1	28.1	33.9	37.9	35.2	31.6	26.3	23.6	23.2
67.5°	1801.7	659.1	26.3	23.2	26.7	29.9	27.6	25.8	20.9	20.5	20.9
70°	869.0	317.7	21.8	18.7	20.9	23.2	22.3	20.9	20.1	23.2	26.7
72.5°	249.1	106.5	17.4	15.6	16.9	18.3	19.2	18.7	21.8	28.1	32.5
73°	191.6	86.0	16.5	14.7	16.0	17.8	18.7	18.3	22.3	28.5	32.5
75°	82.0	41.4	12.5	12.0	13.4	15.6	16.5	16.5	22.3	29.0	31.2
77.5°	37.0	22.3	8.0	9.4	11.6	12.5	13.8	13.8	17.8	22.3	22.3
80°	20.9	12.0	6.2	7.1	8.5	8.5	8.5	7.6	8.0	8.9	9.8
82.5°	13.4	8.0	4.9	5.8	5.3	4.5	3.6	3.6	3.1	3.6	4.5
85°	7.6	4.5	4.5	3.6	2.2	1.8	2.2	1.8	0.4	0.0	0.4
87.5°	4.5	2.7	1.3	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)