

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: P452680

Luminaire Tested: **GALN-SA3C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 11110 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

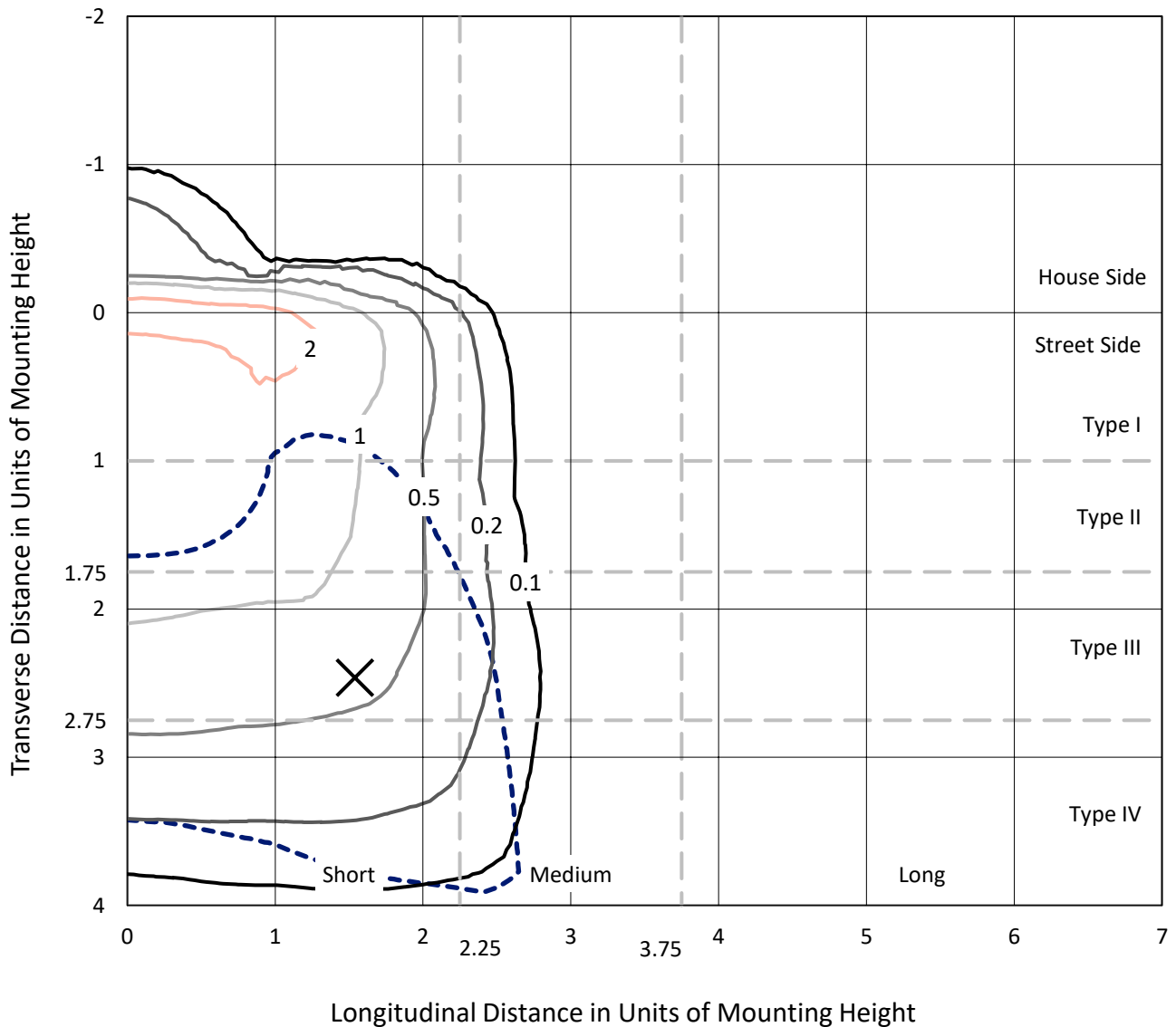
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

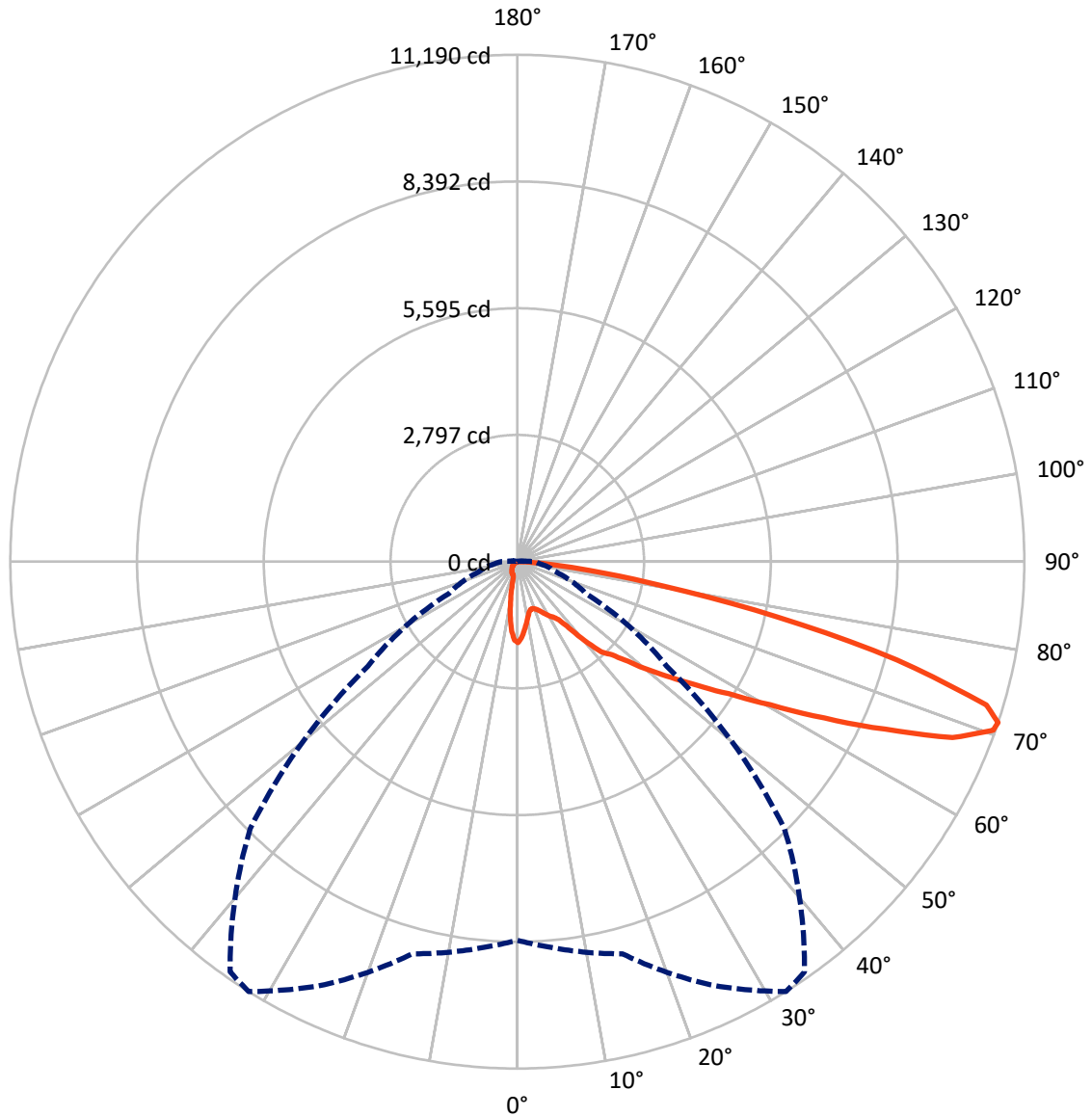
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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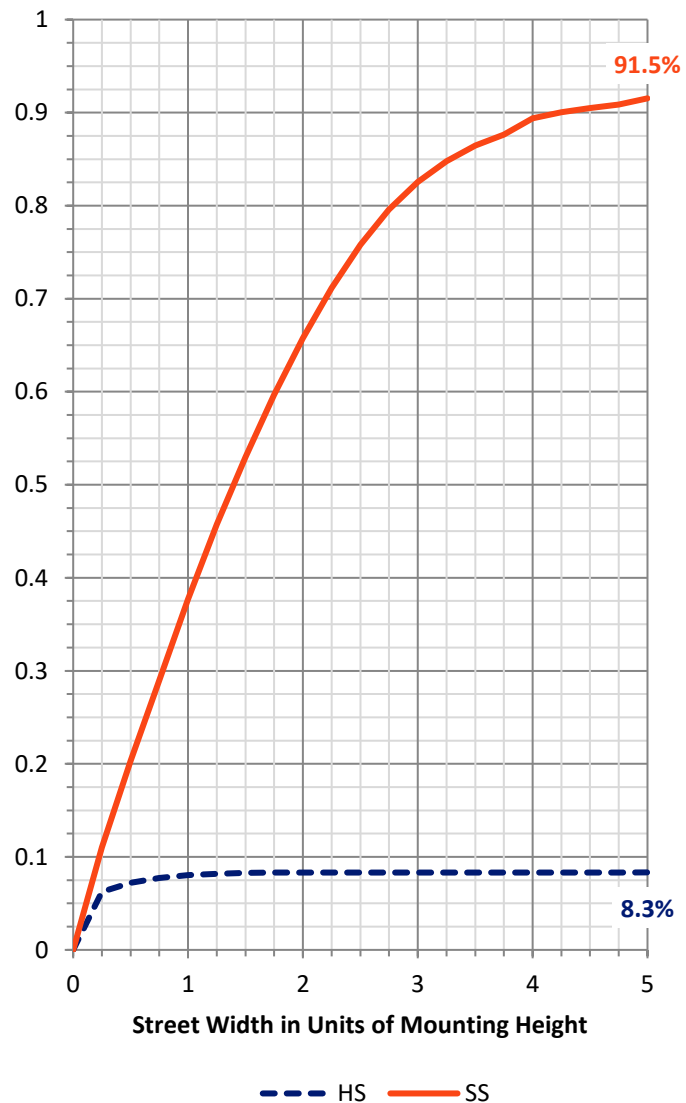
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.6	0.0	930.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10179.4	0.0	10179.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	11110.0	0.0	11110.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.3
10°-20°	315.3	2.8
20°-30°	490.5	4.4
30°-40°	817.2	7.4
40°-50°	1520.1	13.7
50°-60°	2440.6	22.0
60°-70°	3282.7	29.5
70°-80°	1947.7	17.5
80°-90°	150.6	1.4
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°	11110.0	100.0
0°-180°	11110.0	100.0



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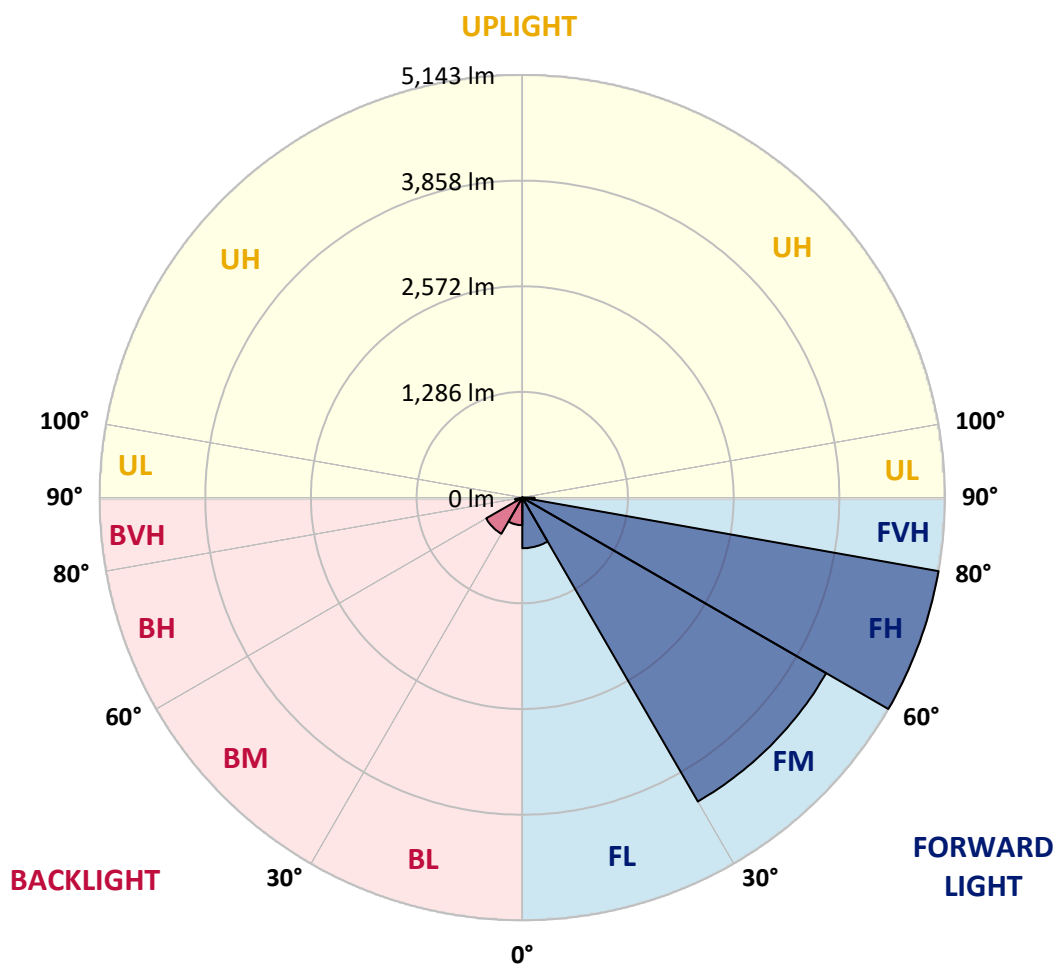
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	615.8	5.5			
FM	(30°-60°)	4270.3	38.4			
FH	(60°-80°)	5143.4	46.3			G3/7500
FVH	(80°-90°)	150.0	1.3			G2/225
BL	(0°-30°)	335.3	3.0	B1/500		
BM	(30°-60°)	507.7	4.6	B1/1000		
BH	(60°-80°)	87.0	0.8	B0/110		G0/110
BVH	(80°-90°)	0.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1657.0	1674.1	1671.5	1677.5	1692.0	1698.0	1714.2	1732.1	1756.8	1773.9	1785.0
5°	1483.9	1496.7	1498.4	1528.3	1542.8	1559.0	1606.7	1658.7	1716.7	1762.8	1793.5
7.5°	1298.8	1305.7	1319.3	1358.5	1395.2	1411.4	1483.9	1574.3	1665.6	1751.7	1807.1
10°	1146.2	1153.9	1178.6	1220.4	1254.5	1275.8	1376.5	1489.9	1617.8	1745.7	1826.7
12.5°	1059.2	1063.5	1072.8	1110.4	1153.9	1176.9	1285.2	1414.8	1579.4	1748.3	1860.0
15°	1053.2	1051.5	1040.4	1055.8	1095.0	1118.9	1224.7	1363.7	1545.3	1756.8	1899.2
17.5°	1084.8	1080.5	1054.1	1054.1	1086.5	1106.1	1199.1	1336.4	1528.3	1776.4	1954.7
20°	1133.4	1126.6	1083.1	1079.7	1111.2	1131.7	1214.4	1338.1	1531.7	1813.1	2028.9
22.5°	1194.8	1187.1	1121.5	1123.2	1157.3	1177.7	1258.8	1368.8	1553.0	1858.3	2108.2
25°	1275.0	1266.4	1188.8	1185.4	1221.2	1239.1	1324.4	1423.4	1582.8	1914.6	2212.2
27.5°	1381.6	1363.7	1270.7	1265.6	1304.0	1327.0	1403.7	1496.7	1635.7	1992.2	2352.1
30°	1469.4	1449.8	1361.1	1347.5	1388.4	1406.3	1485.6	1595.6	1739.8	2127.8	2545.7
32.5°	1584.5	1555.5	1451.5	1415.7	1459.2	1482.2	1604.2	1779.8	1894.1	2271.1	2775.9
35°	1843.8	1825.9	1698.8	1573.5	1570.9	1599.9	1779.0	1965.8	2052.7	2494.5	3089.8
37.5°	2214.8	2202.0	2067.2	1899.2	1850.6	1837.0	1991.3	2170.4	2306.0	2801.5	3454.8
40°	2645.5	2615.6	2491.9	2349.5	2286.4	2246.3	2242.1	2474.9	2636.9	3218.5	3835.1
42.5°	2954.2	2899.6	2749.5	2739.3	2725.6	2683.8	2562.7	2920.1	3064.2	3667.1	4241.9
45°	3278.2	3195.5	2972.1	2933.7	2928.6	2926.0	3047.1	3447.1	3529.8	4153.2	4659.8
47.5°	3529.8	3464.2	3280.8	3263.7	3285.1	3343.1	3687.6	4006.6	3989.5	4586.5	5010.3
50°	3865.0	3815.5	3611.7	3644.1	3754.1	3848.8	4409.9	4616.3	4367.3	4927.6	5265.3
52.5°	4260.7	4169.4	3980.1	4068.0	4236.8	4394.6	5176.6	5150.2	4632.5	5184.3	5455.5
55°	4603.5	4538.7	4473.9	4565.2	4817.6	5014.6	5869.1	5550.2	4825.3	5390.7	5539.1
57.5°	5183.5	5168.1	5101.6	5194.5	5500.7	5705.4	6489.1	5860.6	4948.9	5498.1	5441.0
60°	6041.4	6016.7	5893.0	6011.5	6410.7	6732.2	7060.5	6139.5	4977.1	5456.4	5158.7
62.5°	7073.3	6988.9	6883.1	7058.0	7605.5	7747.0	7598.6	6304.9	4872.2	5123.8	4478.2
65°	8037.0	7950.0	7952.6	8321.0	8917.1	9013.5	8226.3	6280.2	4565.2	4290.5	3303.0
67.5°	8774.7	8760.2	8864.2	9583.2	10362.6	10296.1	8787.5	5910.1	3655.2	2781.1	1755.1
70°	8812.2	8840.4	9138.8	10352.4	11143.8	11038.1	8739.7	4803.9	2278.7	1279.2	691.6
71°	8358.5	8547.8	8960.6	10328.5	11189.9	11052.6	8337.2	4023.6	1671.5	892.1	498.9
72.5°	7122.8	7222.5	8114.6	9720.5	10825.7	10532.3	7316.4	2820.3	1070.3	545.8	286.5
75°	3923.0	4168.6	5434.2	7625.9	8658.7	8401.1	4768.1	1339.8	533.9	298.5	118.5
77.5°	1867.7	1819.9	2651.4	4535.3	5870.8	5857.2	2402.4	595.3	311.3	202.1	59.7
80°	533.9	600.4	1014.9	2155.9	3259.5	3295.3	922.8	287.4	215.8	157.8	30.7
82.5°	161.2	164.6	372.7	953.5	1621.2	1528.3	346.2	146.7	155.2	125.4	17.9
85°	28.1	35.0	110.0	336.0	618.3	469.1	87.0	69.9	102.3	82.7	10.2
87.5°	1.7	2.6	36.7	38.4	54.6	31.6	15.4	10.2	22.2	22.2	6.0
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°	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7	1786.7
2.5°	1792.6	1797.7	1794.3	1786.7	1773.9	1758.5	1738.1	1721.0	1706.5	1698.8	1708.2
5°	1803.7	1810.5	1793.5	1755.1	1697.1	1634.0	1562.4	1506.9	1463.4	1449.8	1444.7
7.5°	1820.8	1825.0	1779.0	1693.7	1570.9	1421.7	1291.2	1181.2	1095.9	1070.3	1032.8
10°	1842.9	1840.4	1753.4	1594.8	1379.0	1154.7	952.6	802.5	689.1	648.1	644.7
12.5°	1877.1	1863.4	1721.0	1460.0	1150.5	857.1	607.2	475.0	403.4	379.5	374.4
15°	1919.7	1887.3	1669.8	1302.3	881.0	553.5	374.4	334.3	324.9	323.2	321.5
17.5°	1970.0	1918.8	1602.5	1108.7	619.1	359.0	313.0	312.1	313.0	311.3	310.4
20°	2038.2	1952.1	1522.3	879.3	409.4	302.8	298.5	298.5	299.3	298.5	298.5
22.5°	2110.7	1991.3	1423.4	671.2	308.7	287.4	286.5	288.3	290.0	289.1	289.1
25°	2200.3	2042.5	1292.9	459.7	276.3	274.6	275.5	278.9	282.3	283.1	282.3
27.5°	2329.9	2105.6	1153.0	316.4	253.3	255.0	263.5	272.1	277.2	278.0	278.0
30°	2475.7	2175.5	970.5	256.7	234.5	234.5	244.8	261.0	272.1	273.8	274.6
32.5°	2663.4	2256.6	768.4	231.1	216.6	214.9	224.3	243.9	264.4	270.3	270.3
35°	2895.3	2352.1	571.4	214.9	203.8	199.6	204.7	220.9	247.3	264.4	266.1
37.5°	3167.4	2442.5	417.9	200.4	191.9	185.9	189.3	202.1	223.4	249.0	255.8
40°	3419.0	2522.6	312.1	188.5	179.9	175.7	178.2	184.2	202.1	226.0	230.3
42.5°	3693.6	2584.9	248.2	175.7	168.0	166.3	166.3	168.9	180.8	194.4	195.3
45°	3967.3	2607.1	208.1	160.3	155.2	156.9	156.1	154.4	159.5	157.8	157.8
47.5°	4162.6	2580.6	172.3	145.8	145.8	148.4	144.1	138.2	135.6	125.4	126.2
50°	4296.5	2484.3	141.6	128.8	135.6	139.0	130.5	121.1	111.7	100.6	98.1
52.5°	4351.9	2312.9	116.0	106.6	120.2	124.5	114.3	103.2	88.7	79.3	76.8
55°	4316.1	2101.4	96.4	87.0	101.5	106.6	96.4	83.6	67.4	57.1	55.4
57.5°	4158.4	1848.9	81.9	69.1	81.0	84.4	77.6	64.0	47.8	37.5	37.5
60°	3885.5	1588.0	66.5	54.6	60.6	65.7	58.8	46.1	32.4	23.0	21.3
62.5°	3332.0	1289.5	53.7	42.6	42.6	46.9	40.9	33.3	20.5	11.9	11.1
65°	2405.8	884.4	42.6	31.6	30.7	30.7	25.6	22.2	11.9	5.1	3.4
67.5°	1307.4	498.9	34.1	23.9	21.3	20.5	16.2	12.8	5.1	0.9	0.0
70°	514.3	191.9	26.4	16.2	13.6	12.8	8.5	6.0	3.4	0.0	0.0
71°	348.8	132.2	23.0	13.6	11.1	9.4	6.8	5.1	2.6	0.0	0.0
72.5°	199.6	81.9	17.9	10.2	8.5	6.8	5.1	3.4	2.6	0.0	0.0
75°	87.0	41.8	11.1	7.7	6.0	4.3	3.4	2.6	0.9	0.0	0.0
77.5°	44.3	23.0	7.7	6.0	3.4	2.6	1.7	0.9	0.0	0.0	0.0
80°	24.7	11.9	5.1	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
82.5°	13.6	6.8	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	1.7	0.0	0.0	0.0	0.0	0.9	0.9	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)