

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: P453927

Luminaire Tested: **GALN-SA5A-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453927
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-SA5A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 13792 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

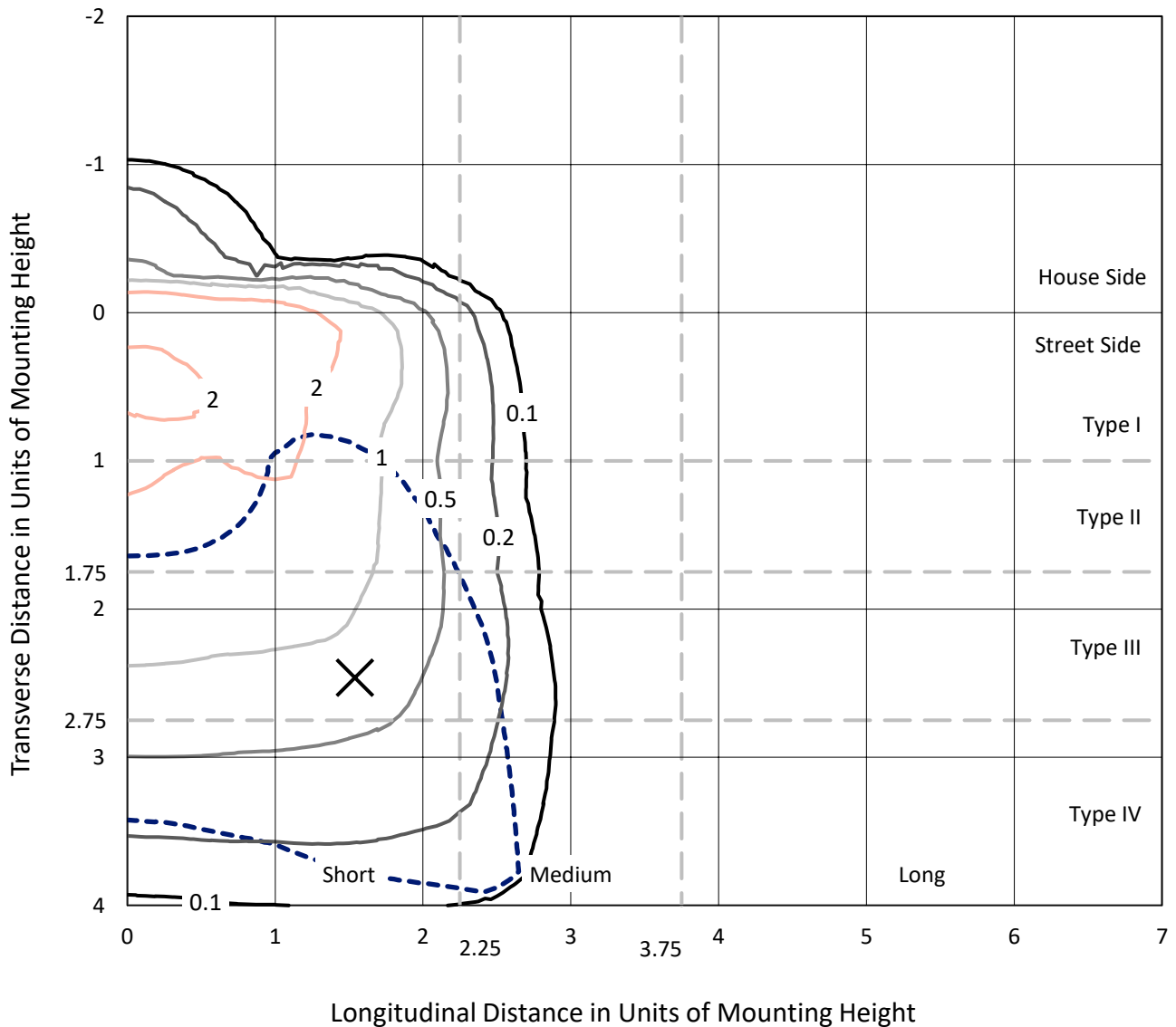
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

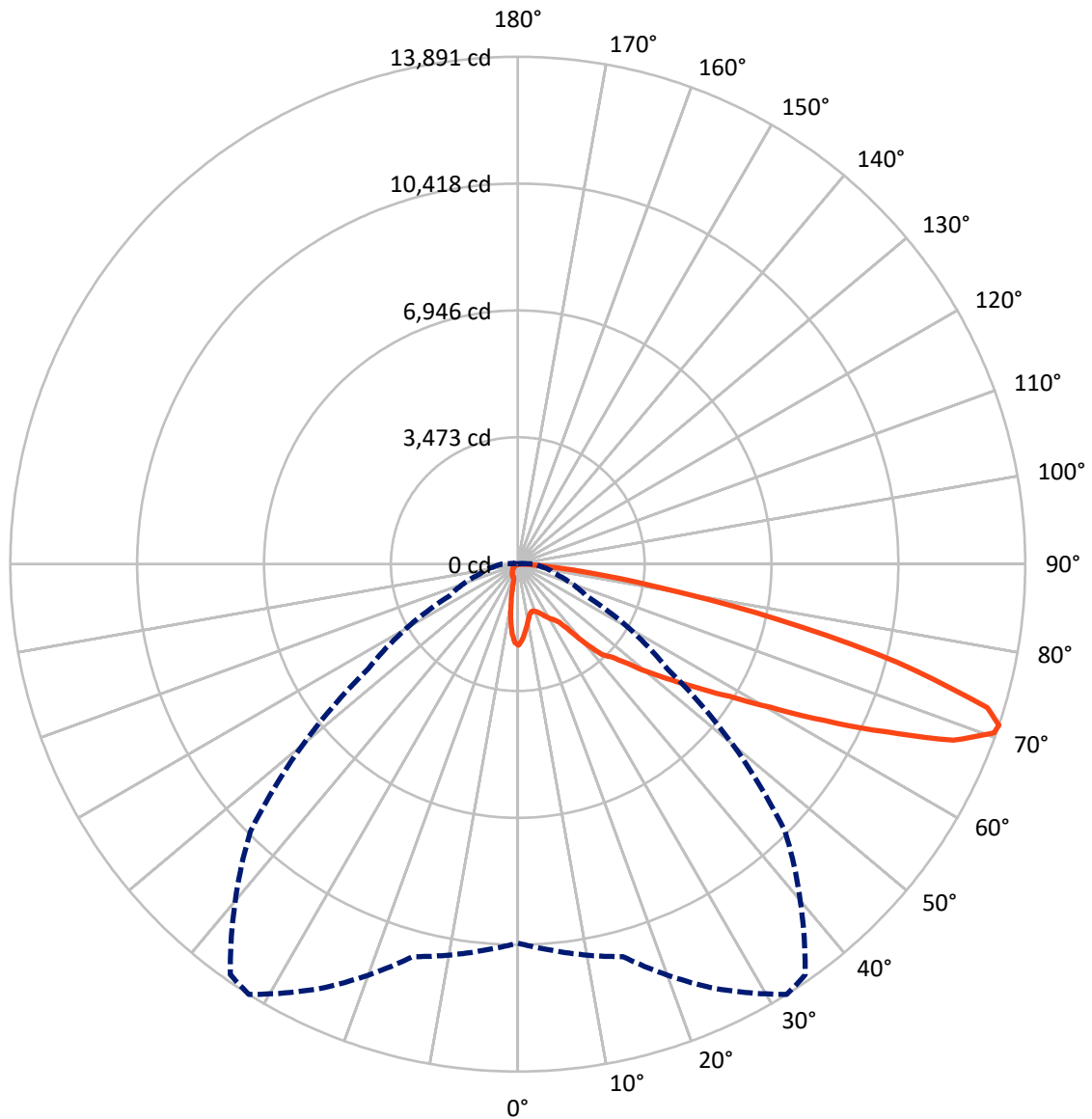
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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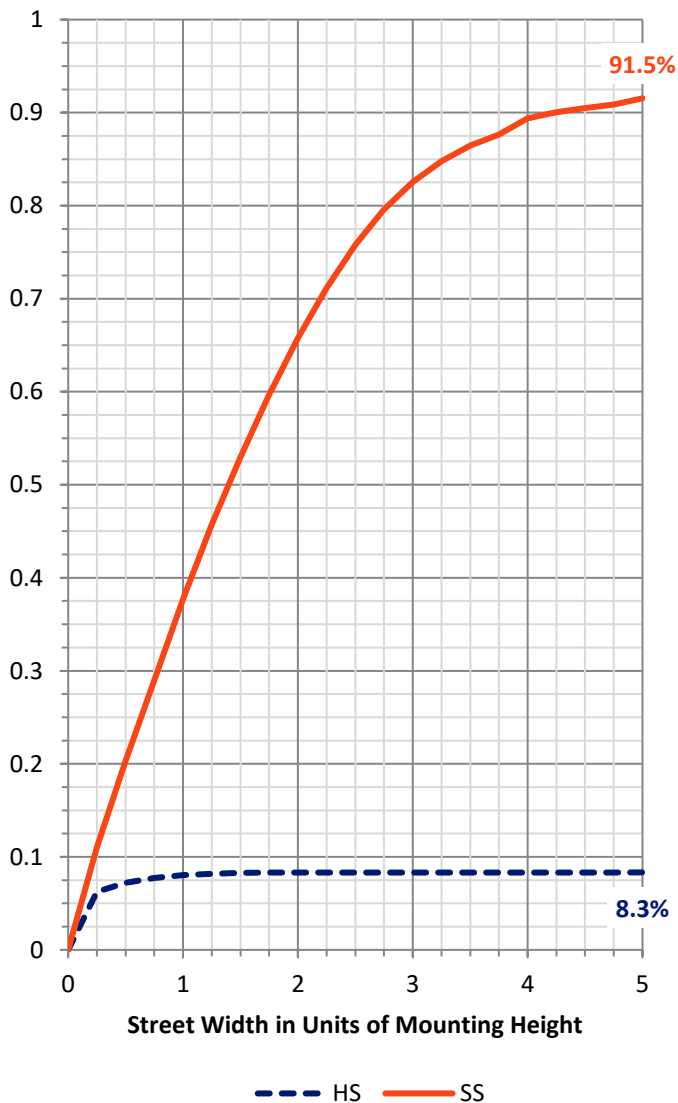
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1155.2	0.0	1155.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12636.8	0.0	12636.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	13792.0	0.0	13792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	1.3
10°-20°	391.4	2.8
20°-30°	608.9	4.4
30°-40°	1014.5	7.4
40°-50°	1887.1	13.7
50°-60°	3029.8	22.0
60°-70°	4075.2	29.5
70°-80°	2417.9	17.5
80°-90°	186.9	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°	13792.0	100.0
0°-180°	13792.0	100.0

Coefficient of Utilization



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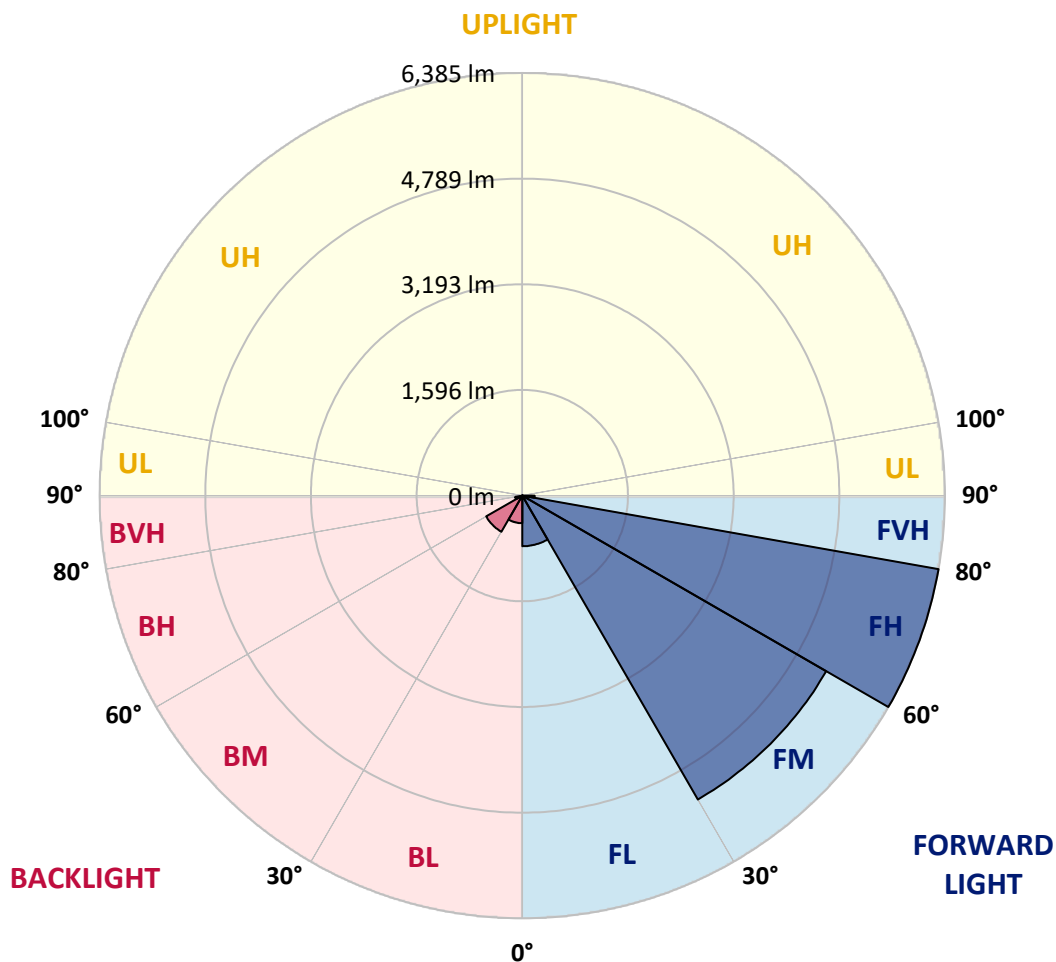
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.4	5.5			
FM	(30°-60°)	5301.1	38.4			
FH	(60°-80°)	6385.0	46.3			G3/7500
FVH	(80°-90°)	186.2	1.3			G2/225
BL	(0°-30°)	416.3	3.0	B1/500		
BM	(30°-60°)	630.2	4.6	B1/1000		
BH	(60°-80°)	108.0	0.8	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2057.0	2078.2	2075.0	2082.5	2100.5	2107.9	2128.0	2150.2	2180.9	2202.1	2215.9
5°	1842.1	1858.0	1860.1	1897.2	1915.2	1935.3	1994.6	2059.2	2131.2	2188.3	2226.4
7.5°	1612.4	1620.9	1637.8	1686.5	1732.0	1752.1	1842.1	1954.4	2067.6	2174.6	2243.4
10°	1422.9	1432.4	1463.1	1515.0	1557.3	1583.8	1708.7	1849.5	2008.3	2167.2	2267.7
12.5°	1314.9	1320.2	1331.8	1378.4	1432.4	1461.0	1595.5	1756.4	1960.7	2170.3	2309.0
15°	1307.5	1305.4	1291.6	1310.7	1359.4	1389.0	1520.3	1692.9	1918.4	2180.9	2357.7
17.5°	1346.7	1341.4	1308.5	1308.5	1348.8	1373.1	1488.5	1659.0	1897.2	2205.3	2426.5
20°	1407.0	1398.5	1344.5	1340.3	1379.5	1404.9	1507.6	1661.1	1901.4	2250.8	2518.6
22.5°	1483.2	1473.7	1392.2	1394.3	1436.7	1462.1	1562.6	1699.2	1927.9	2306.9	2617.1
25°	1582.8	1572.2	1475.8	1471.6	1516.1	1538.3	1644.2	1767.0	1964.9	2376.8	2746.3
27.5°	1715.1	1692.9	1577.5	1571.1	1618.7	1647.3	1742.6	1858.0	2030.6	2473.1	2919.9
30°	1824.1	1799.8	1689.7	1672.7	1723.6	1745.8	1844.2	1980.8	2159.7	2641.4	3160.2
32.5°	1967.1	1931.1	1801.9	1757.4	1811.4	1840.0	1991.4	2209.5	2351.4	2819.3	3446.1
35°	2288.9	2266.7	2108.9	1953.3	1950.1	1986.1	2208.4	2440.3	2548.3	3096.7	3835.7
37.5°	2749.4	2733.6	2566.3	2357.7	2297.4	2280.4	2472.1	2694.4	2862.7	3477.8	4288.8
40°	3284.1	3247.0	3093.5	2916.7	2838.4	2788.6	2783.3	3072.3	3273.5	3995.5	4761.0
42.5°	3667.3	3599.6	3413.2	3400.5	3383.6	3331.7	3181.4	3625.0	3803.9	4552.4	5266.0
45°	4069.6	3966.9	3689.6	3641.9	3635.6	3632.4	3782.7	4279.3	4381.9	5155.9	5784.7
47.5°	4381.9	4300.4	4072.8	4051.6	4078.1	4150.1	4577.8	4973.8	4952.6	5693.7	6219.8
50°	4798.0	4736.6	4483.6	4523.8	4660.4	4777.9	5474.5	5730.7	5421.6	6117.1	6536.4
52.5°	5289.2	5176.0	4940.9	5050.0	5259.6	5455.5	6426.3	6393.5	5750.8	6435.8	6772.5
55°	5714.8	5634.4	5553.9	5667.2	5980.6	6225.1	7285.9	6890.0	5990.1	6692.0	6876.2
57.5°	6434.8	6415.7	6333.1	6448.5	6828.6	7082.7	8055.6	7275.4	6143.6	6825.4	6754.5
60°	7499.8	7469.1	7315.6	7462.8	7958.2	8357.3	8764.9	7621.6	6178.6	6773.5	6404.1
62.5°	8780.8	8676.0	8544.7	8761.8	9441.5	9617.2	9433.0	7826.9	6048.3	6360.6	5559.2
65°	9977.2	9869.2	9872.3	10329.7	11069.7	11189.4	10212.2	7796.2	5667.2	5326.3	4100.3
67.5°	10892.9	10874.9	11004.1	11896.6	12864.2	12781.6	10908.8	7336.8	4537.6	3452.4	2178.8
70°	10939.5	10974.4	11345.0	12851.5	13834.0	13702.7	10849.5	5963.6	2828.8	1588.0	858.6
71°	10376.3	10611.3	11123.7	12821.9	13891.2	13720.7	10349.8	4994.9	2075.0	1107.4	619.3
72.5°	8842.2	8966.1	10073.5	12067.0	13439.1	13074.9	9082.6	3501.1	1328.7	677.6	355.7
75°	4870.0	5174.9	6746.0	9466.9	10748.9	10429.2	5919.2	1663.2	662.7	370.5	147.2
77.5°	2318.5	2259.3	3291.5	5630.1	7288.1	7271.1	2982.3	739.0	386.4	250.9	74.1
80°	662.7	745.3	1259.8	2676.4	4046.3	4090.8	1145.5	356.8	267.9	195.9	38.1
82.5°	200.1	204.3	462.7	1183.6	2012.6	1897.2	429.8	182.1	192.7	155.6	22.2
85°	34.9	43.4	136.6	417.1	767.6	582.3	108.0	86.8	127.0	102.7	12.7
87.5°	2.1	3.2	45.5	47.6	67.8	39.2	19.1	12.7	27.5	27.5	7.4
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°	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0	2218.0
2.5°	2225.4	2231.7	2227.5	2218.0	2202.1	2183.0	2157.6	2136.4	2118.5	2108.9	2120.6
5°	2239.1	2247.6	2226.4	2178.8	2106.8	2028.5	1939.5	1870.7	1816.7	1799.8	1793.4
7.5°	2260.3	2265.6	2208.4	2102.6	1950.1	1764.8	1602.9	1466.3	1360.4	1328.7	1282.1
10°	2287.8	2284.7	2176.7	1979.8	1711.9	1433.5	1182.6	996.2	855.4	804.6	800.4
12.5°	2330.2	2313.3	2136.4	1812.5	1428.2	1064.0	753.8	589.7	500.8	471.1	464.8
15°	2383.1	2342.9	2072.9	1616.6	1093.6	687.1	464.8	415.0	403.4	401.2	399.1
17.5°	2445.6	2382.1	1989.3	1376.3	768.6	445.7	388.5	387.5	388.5	386.4	385.4
20°	2530.3	2423.4	1889.8	1091.5	508.2	375.8	370.5	370.5	371.6	370.5	370.5
22.5°	2620.3	2472.1	1767.0	833.2	383.2	356.8	355.7	357.8	360.0	358.9	358.9
25°	2731.4	2535.6	1605.0	570.6	343.0	340.9	342.0	346.2	350.4	351.5	350.4
27.5°	2892.4	2613.9	1431.4	392.8	314.4	316.6	327.1	337.7	344.1	345.1	345.1
30°	3073.4	2700.7	1204.8	318.7	291.1	291.1	303.8	324.0	337.7	339.8	340.9
32.5°	3306.3	2801.3	953.9	286.9	268.9	266.8	278.4	302.8	328.2	335.6	335.6
35°	3594.3	2919.9	709.3	266.8	253.0	247.7	254.1	274.2	307.0	328.2	330.3
37.5°	3932.0	3032.1	518.8	248.8	238.2	230.8	235.0	250.9	277.4	309.1	317.6
40°	4244.3	3131.6	387.5	234.0	223.4	218.1	221.3	228.7	250.9	280.6	285.8
42.5°	4585.2	3208.9	308.1	218.1	208.6	206.4	206.4	209.6	224.4	241.4	242.4
45°	4925.1	3236.4	258.3	199.0	192.7	194.8	193.7	191.6	198.0	195.9	195.9
47.5°	5167.5	3203.6	213.9	181.0	181.0	184.2	178.9	171.5	168.3	155.6	156.7
50°	5333.7	3084.0	175.7	159.9	168.3	172.6	162.0	150.3	138.7	124.9	121.8
52.5°	5402.5	2871.2	144.0	132.3	149.3	154.6	141.9	128.1	110.1	98.5	95.3
55°	5358.1	2608.6	119.6	108.0	126.0	132.3	119.6	103.8	83.6	70.9	68.8
57.5°	5162.2	2295.3	101.6	85.8	100.6	104.8	96.3	79.4	59.3	46.6	46.6
60°	4823.4	1971.3	82.6	67.8	75.2	81.5	73.1	57.2	40.2	28.6	26.5
62.5°	4136.3	1600.7	66.7	52.9	52.9	58.2	50.8	41.3	25.4	14.8	13.8
65°	2986.6	1097.9	52.9	39.2	38.1	38.1	31.8	27.5	14.8	6.4	4.2
67.5°	1623.0	619.3	42.3	29.6	26.5	25.4	20.1	15.9	6.4	1.1	0.0
70°	638.4	238.2	32.8	20.1	16.9	15.9	10.6	7.4	4.2	0.0	0.0
71°	433.0	164.1	28.6	16.9	13.8	11.6	8.5	6.4	3.2	0.0	0.0
72.5°	247.7	101.6	22.2	12.7	10.6	8.5	6.4	4.2	3.2	0.0	0.0
75°	108.0	51.9	13.8	9.5	7.4	5.3	4.2	3.2	1.1	0.0	0.0
77.5°	55.1	28.6	9.5	7.4	4.2	3.2	2.1	1.1	0.0	0.0	0.0
80°	30.7	14.8	6.4	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0
82.5°	16.9	8.5	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.1	0.0	0.0	0.0	0.0	1.1	1.1	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)