

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: P947715

Luminaire Tested: **GALN-SB3A-727-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12201 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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

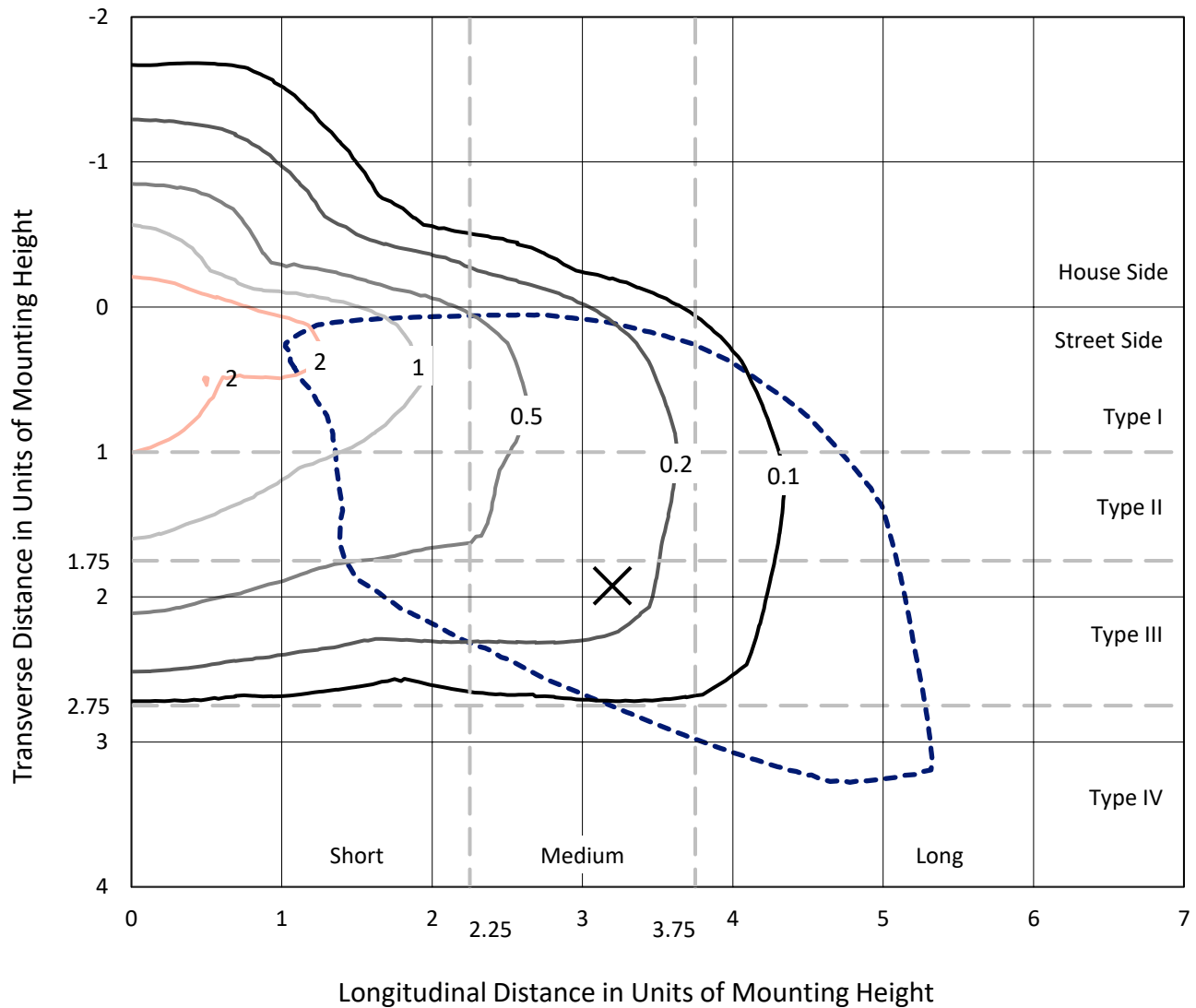


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

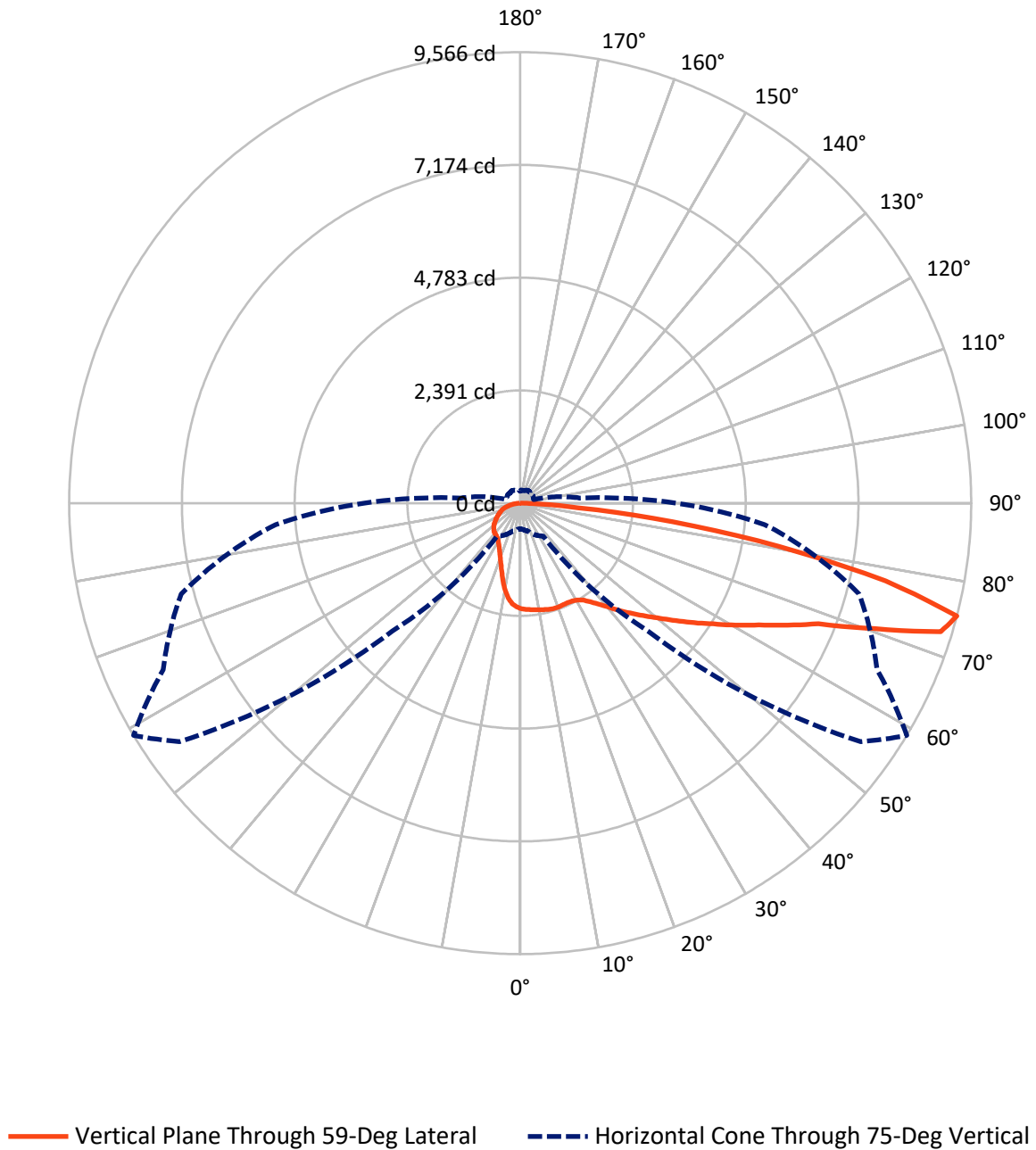


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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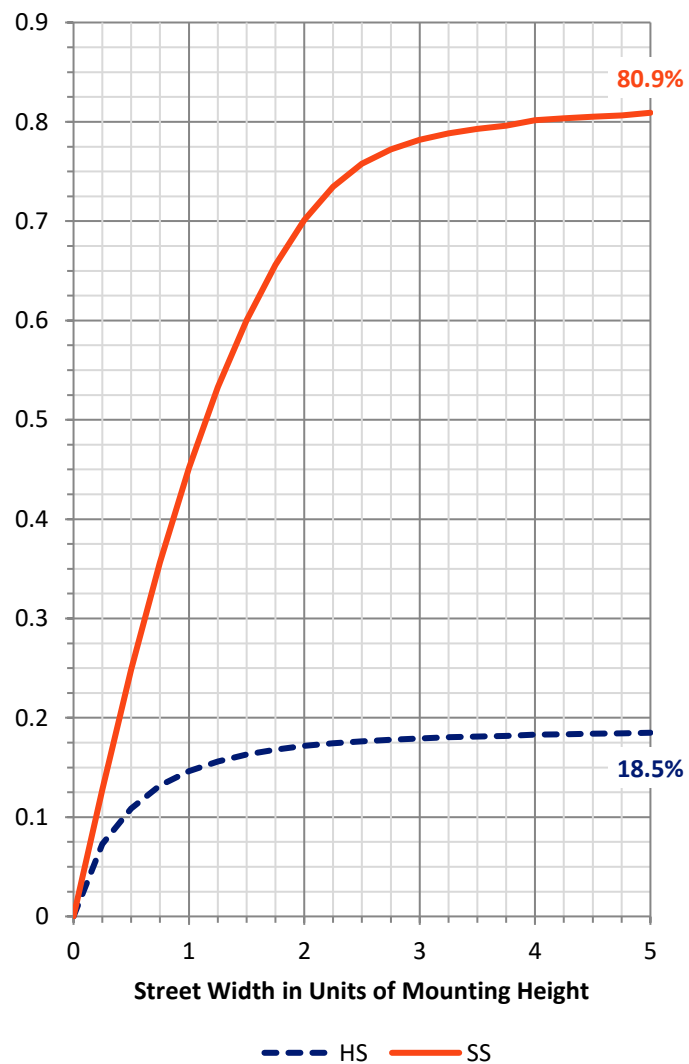
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2288.4	0.0	2288.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9912.6	0.0	9912.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	12201.0	0.0	12201.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	1.6
10°-20°	513.3	4.2
20°-30°	779.6	6.4
30°-40°	1158.9	9.5
40°-50°	1723.5	14.1
50°-60°	2339.4	19.2
60°-70°	2856.0	23.4
70°-80°	2241.3	18.4
80°-90°	388.3	3.2
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°	12201.0	100.0
0°-180°	12201.0	100.0

Coefficient of Utilization



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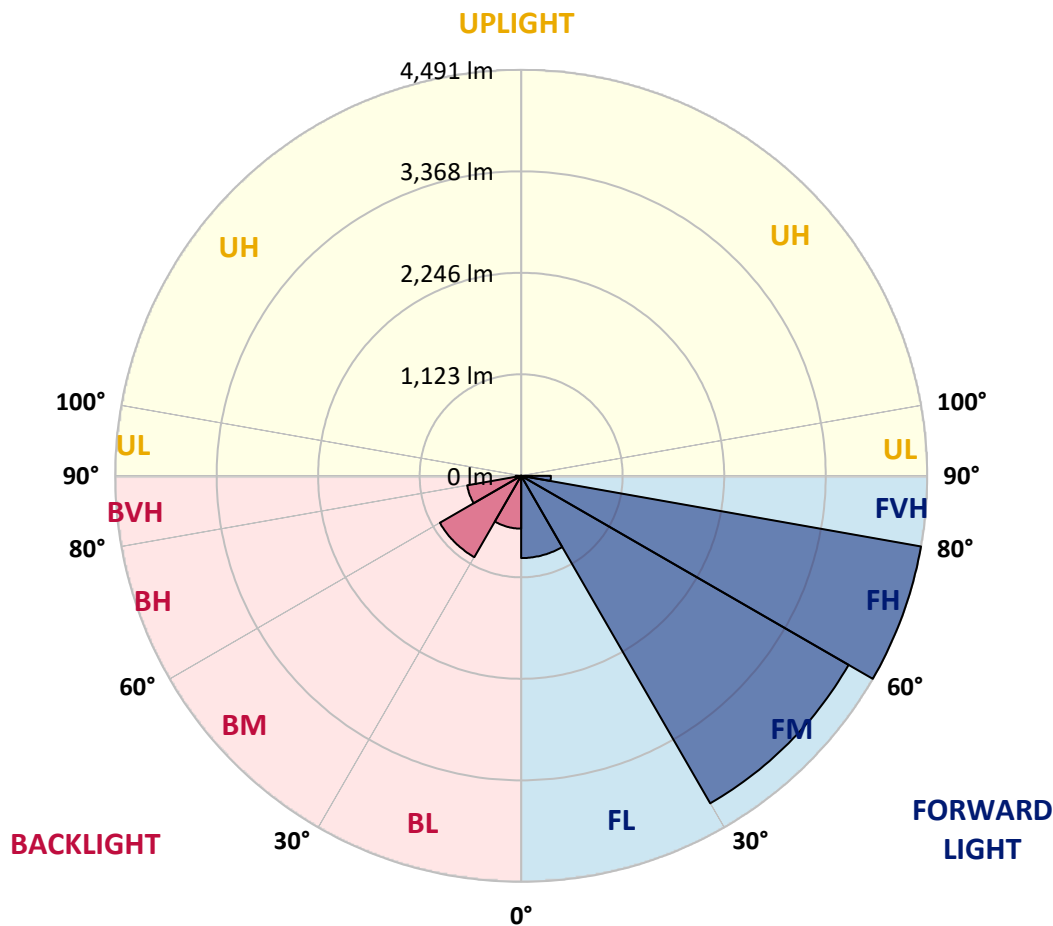
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	909.7	7.5			
FM	(30°-60°)	4183.0	34.3			
FH	(60°-80°)	4491.1	36.8			G2/5000
FVH	(80°-90°)	328.8	2.7			G3/500
BL	(0°-30°)	584.0	4.8	B2/1000		
BM	(30°-60°)	1038.7	8.5	B2/2500		
BH	(60°-80°)	606.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	59.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5
2.5°	2258.5	2250.6	2258.5	2255.2	2253.9	2251.3	2251.9	2256.5	2253.9	2257.2	2246.0
5°	2243.4	2238.8	2246.7	2244.7	2253.2	2254.6	2263.1	2268.3	2271.6	2272.3	2263.8
7.5°	2218.5	2213.9	2225.0	2234.2	2252.6	2257.8	2275.6	2284.1	2288.7	2296.6	2284.1
10°	2127.2	2125.3	2152.8	2187.6	2230.9	2257.8	2284.8	2299.2	2306.4	2327.4	2313.0
12.5°	1965.8	1968.4	2004.5	2071.4	2158.1	2244.7	2295.3	2316.3	2327.4	2353.7	2347.1
15°	1811.5	1810.9	1850.3	1921.8	2043.2	2187.0	2300.5	2336.6	2355.6	2394.4	2389.1
17.5°	1722.3	1719.6	1747.2	1801.7	1914.6	2098.4	2287.4	2347.8	2388.5	2437.0	2432.4
20°	1705.9	1700.6	1715.0	1742.0	1822.0	2001.2	2253.2	2347.8	2414.7	2477.7	2475.1
22.5°	1765.6	1757.0	1751.1	1747.9	1783.3	1921.1	2214.5	2339.9	2453.4	2536.1	2531.5
25°	1885.7	1872.6	1842.4	1812.8	1802.3	1885.0	2180.4	2337.9	2511.2	2614.9	2597.8
27.5°	2080.0	2063.6	2002.5	1931.6	1868.0	1903.4	2165.3	2349.7	2574.9	2698.3	2664.1
30°	2320.9	2303.1	2226.3	2117.4	2003.2	1971.7	2184.3	2384.5	2656.2	2809.2	2742.2
32.5°	2536.8	2517.1	2451.5	2340.5	2186.3	2089.8	2244.7	2450.8	2784.2	2963.4	2859.7
35°	2728.4	2705.5	2646.4	2544.0	2410.8	2255.9	2353.7	2568.3	2966.0	3214.1	3019.2
37.5°	2916.2	2889.3	2824.9	2716.6	2623.4	2477.1	2504.0	2719.3	3207.6	3518.7	3230.6
40°	3126.2	3087.5	3009.4	2902.4	2811.8	2736.3	2701.5	2904.3	3453.1	3858.7	3494.4
42.5°	3329.7	3292.9	3199.7	3108.5	2994.9	2973.3	2930.6	3120.9	3721.5	4232.1	3762.2
45°	3548.9	3504.9	3392.0	3276.5	3205.0	3130.8	3152.4	3337.5	3984.7	4612.8	4043.1
47.5°	3754.3	3705.1	3571.9	3443.2	3403.8	3263.4	3355.9	3575.8	4258.4	4998.8	4321.4
50°	3865.2	3816.7	3705.8	3589.6	3558.7	3426.8	3576.5	3837.7	4545.2	5383.4	4588.5
52.5°	3957.8	3905.3	3760.2	3695.9	3686.7	3604.7	3848.2	4137.0	4832.0	5723.4	4846.5
55°	4056.2	3997.8	3812.7	3755.0	3797.0	3804.2	4170.4	4476.3	5135.3	6054.8	5090.0
57.5°	4169.8	4095.6	3863.3	3804.9	3904.6	4037.9	4540.6	4828.1	5433.3	6362.0	5306.6
60°	4276.8	4202.0	3960.4	3884.3	4020.8	4308.9	4965.3	5254.1	5770.6	6635.7	5511.4
62.5°	4297.8	4236.1	4037.9	4037.2	4178.3	4625.3	5468.1	5684.0	6065.3	6906.1	5695.1
65°	3934.2	3895.4	3778.0	4031.3	4404.1	5080.8	6027.9	6234.0	6440.1	7142.4	5856.6
67.5°	2994.3	2999.5	2991.0	3480.0	4221.6	5735.2	6838.5	6822.8	6902.8	7407.6	6042.4
70°	1369.1	1400.0	1600.8	2402.2	3382.2	5810.7	8178.8	7974.7	7483.7	7750.8	6203.2
72.5°	739.7	763.3	845.4	1163.7	2033.4	5166.1	9180.4	9325.4	8256.2	7981.9	6026.6
75°	542.8	555.9	613.0	739.7	853.9	3839.6	8821.3	9565.6	8352.7	7443.0	5204.2
77.5°	406.3	412.2	458.8	586.1	437.1	2024.2	7048.5	7922.1	7150.3	6115.2	3844.2
80°	294.7	301.3	336.1	439.8	306.5	740.4	4839.9	5560.6	4897.0	3898.1	1915.9
82.5°	203.5	206.1	221.2	299.3	214.0	287.5	2746.2	3260.7	2733.7	1367.8	517.2
85°	122.7	126.0	132.6	174.6	121.4	136.5	1185.4	1226.1	817.2	326.9	160.8
87.5°	50.5	53.8	59.1	73.5	47.9	38.1	195.6	245.5	152.9	95.8	49.9
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°	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5	2239.5
2.5°	2242.7	2238.2	2225.7	2208.6	2192.9	2173.2	2164.6	2157.4	2150.9	2138.4	2132.5
5°	2256.5	2244.1	2210.6	2167.3	2118.0	2064.2	2011.7	1975.6	1944.8	1921.8	1902.8
7.5°	2277.5	2253.9	2192.9	2104.3	1991.4	1875.8	1771.5	1697.3	1641.5	1621.2	1585.7
10°	2299.2	2271.0	2164.6	2008.4	1813.5	1635.6	1497.1	1421.0	1376.4	1361.9	1339.6
12.5°	2324.8	2283.4	2120.7	1875.2	1614.6	1419.7	1298.9	1254.3	1231.3	1223.4	1225.4
15°	2362.2	2293.9	2054.4	1708.5	1424.9	1262.2	1184.1	1153.2	1141.4	1140.7	1143.4
17.5°	2390.4	2295.9	1951.3	1530.0	1279.2	1167.0	1102.7	1090.9	1098.7	1110.5	1115.1
20°	2421.9	2278.2	1816.1	1367.2	1176.8	1083.6	1056.7	1064.6	1083.6	1100.7	1106.6
22.5°	2444.2	2246.0	1652.7	1240.5	1088.2	1035.7	1034.4	1050.8	1061.3	1069.9	1074.4
25°	2463.9	2191.6	1479.4	1134.2	1015.4	1006.8	1021.3	1016.0	1008.8	1016.0	1020.6
27.5°	2478.4	2105.6	1324.5	1041.0	964.2	987.2	978.6	966.8	966.1	970.1	976.6
30°	2473.8	1990.7	1197.2	952.4	928.1	950.4	930.0	928.1	926.1	928.1	935.3
32.5°	2473.8	1860.1	1099.4	891.3	905.1	896.6	894.6	890.0	882.1	881.5	890.0
35°	2487.6	1729.5	1015.4	858.5	886.1	865.7	867.0	855.9	839.5	831.6	839.5
37.5°	2515.8	1624.5	932.0	842.8	852.6	851.9	846.7	827.7	798.8	773.8	782.4
40°	2584.1	1593.6	874.9	835.5	836.8	844.7	830.9	794.2	728.5	687.9	693.1
42.5°	2691.0	1645.5	862.4	817.8	826.3	834.2	807.3	722.0	675.4	651.1	651.1
45°	2826.9	1736.0	889.4	792.2	801.4	815.2	735.1	694.4	673.4	674.1	677.4
47.5°	2998.9	1831.2	939.2	769.9	765.3	773.2	687.2	662.3	633.4	640.6	659.0
50°	3197.7	1927.7	986.5	739.7	725.3	699.7	656.4	632.7	596.0	578.9	583.5
52.5°	3413.0	2020.9	1005.5	703.0	681.9	652.4	635.3	606.5	561.8	533.6	533.0
55°	3617.1	2105.6	984.5	659.0	638.6	615.7	613.0	595.3	547.4	508.0	508.0
57.5°	3810.1	2176.5	932.0	614.3	594.7	580.9	598.6	590.1	529.7	479.1	476.5
60°	3973.5	2225.0	855.9	569.1	555.3	548.1	575.0	572.3	504.7	448.3	446.3
62.5°	4103.5	2244.1	771.9	525.7	522.5	509.3	542.1	542.1	473.2	418.1	416.1
65°	4205.2	2225.7	686.5	483.1	489.6	469.9	502.1	498.2	439.8	391.2	388.6
67.5°	4295.2	2165.3	592.0	441.1	456.2	431.2	460.1	450.9	403.0	364.3	361.6
70°	4335.2	2024.8	484.4	399.1	417.4	393.2	418.1	401.0	361.6	335.4	330.1
72.5°	4013.6	1682.9	381.3	355.1	370.8	351.1	372.8	353.1	317.0	305.2	295.4
75°	3320.5	1262.8	293.4	307.2	319.0	303.9	318.3	303.9	271.1	279.6	255.3
77.5°	2411.4	852.6	224.5	256.6	261.9	254.0	266.5	250.1	220.5	218.6	208.7
80°	1199.2	499.5	175.9	202.8	200.8	195.6	210.0	202.2	177.2	187.7	185.7
82.5°	347.2	214.0	128.0	142.4	138.5	139.8	150.3	154.2	231.0	229.1	234.3
85°	109.0	84.0	76.8	79.4	75.5	77.4	88.6	175.9	162.8	95.2	103.0
87.5°	28.2	28.9	19.0	20.3	21.0	24.9	28.2	107.0	51.2	33.5	35.4
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)