

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: P943655

Luminaire Tested: **GALN-SB8B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41847 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 292.8
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

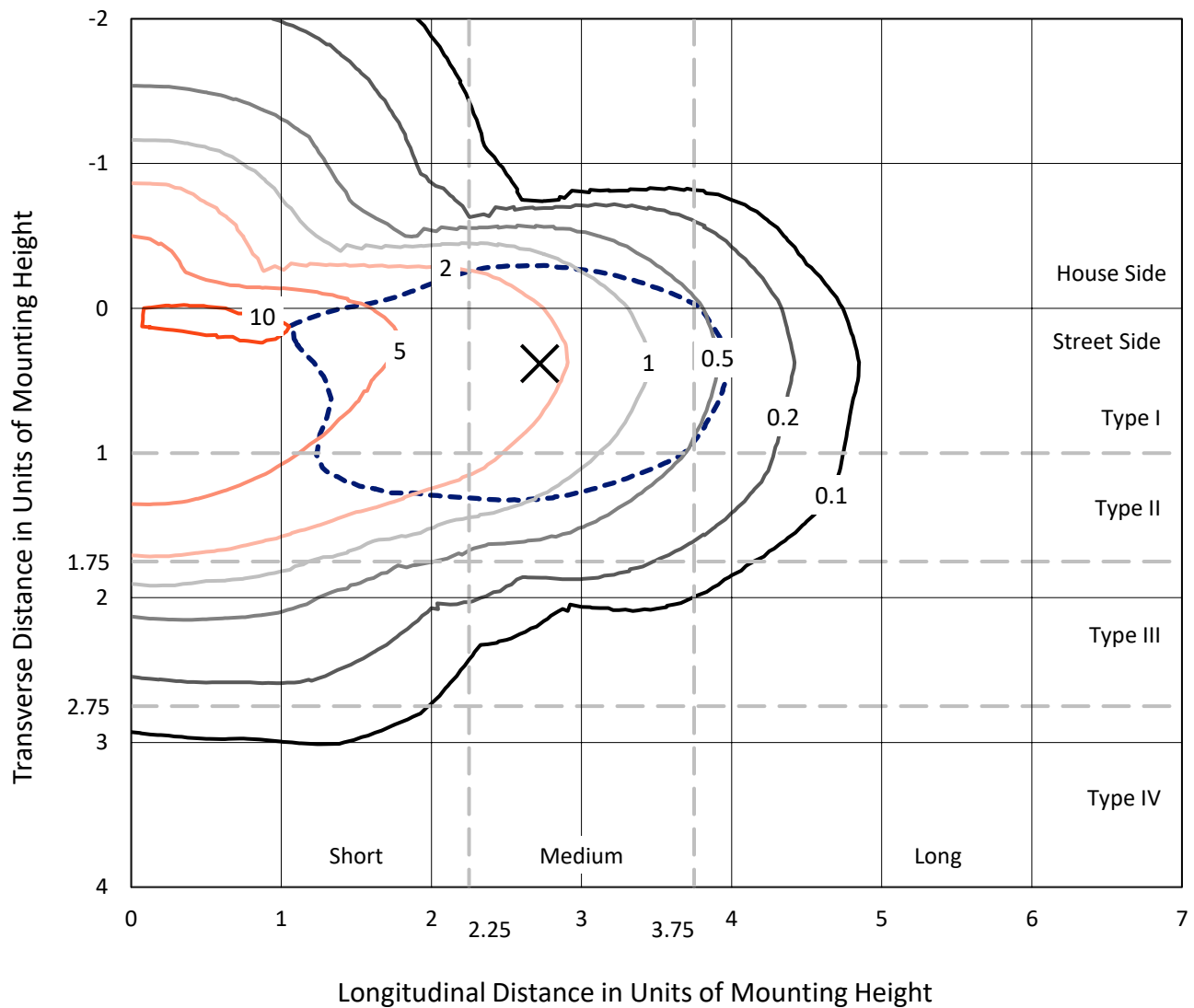


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

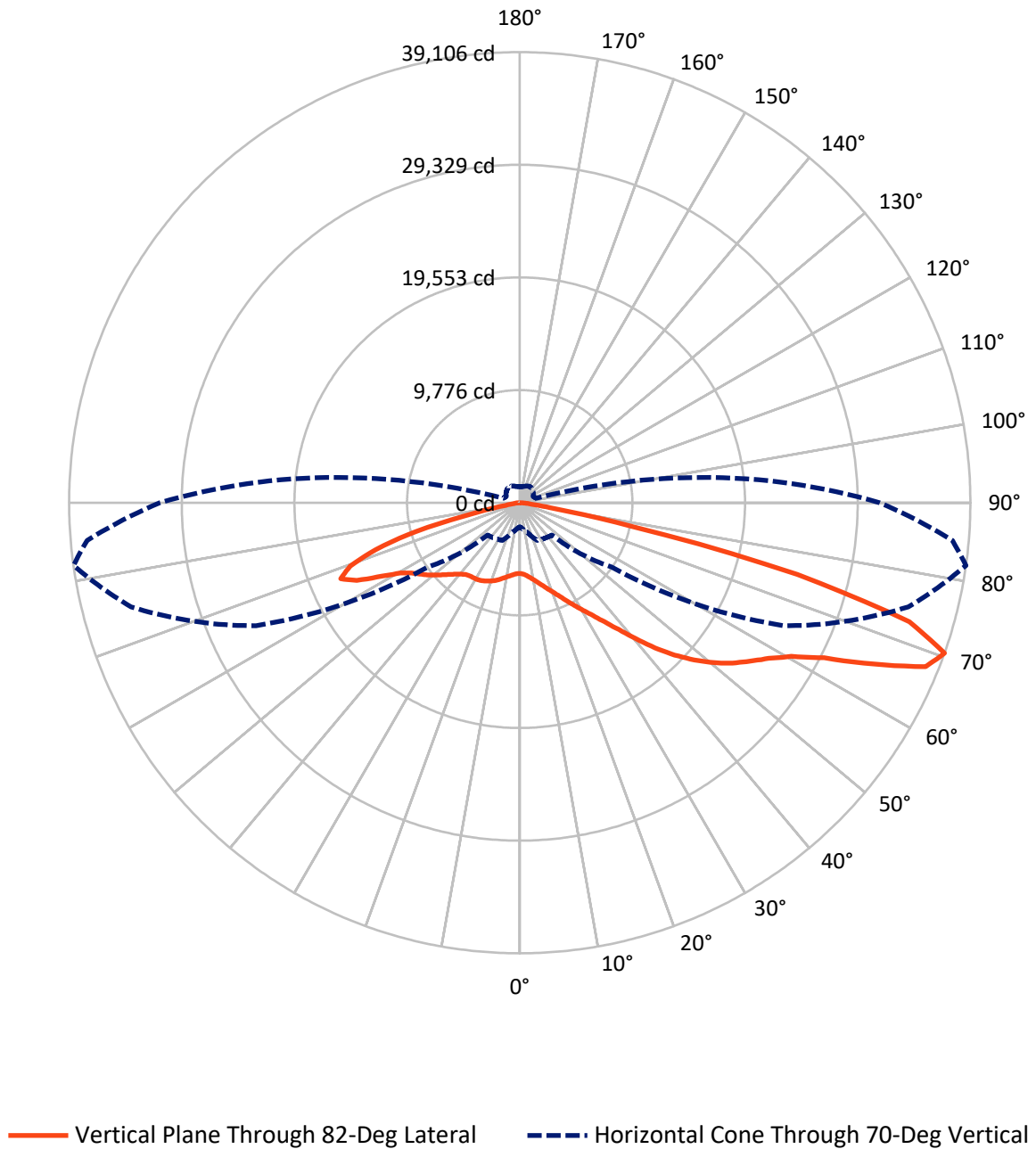


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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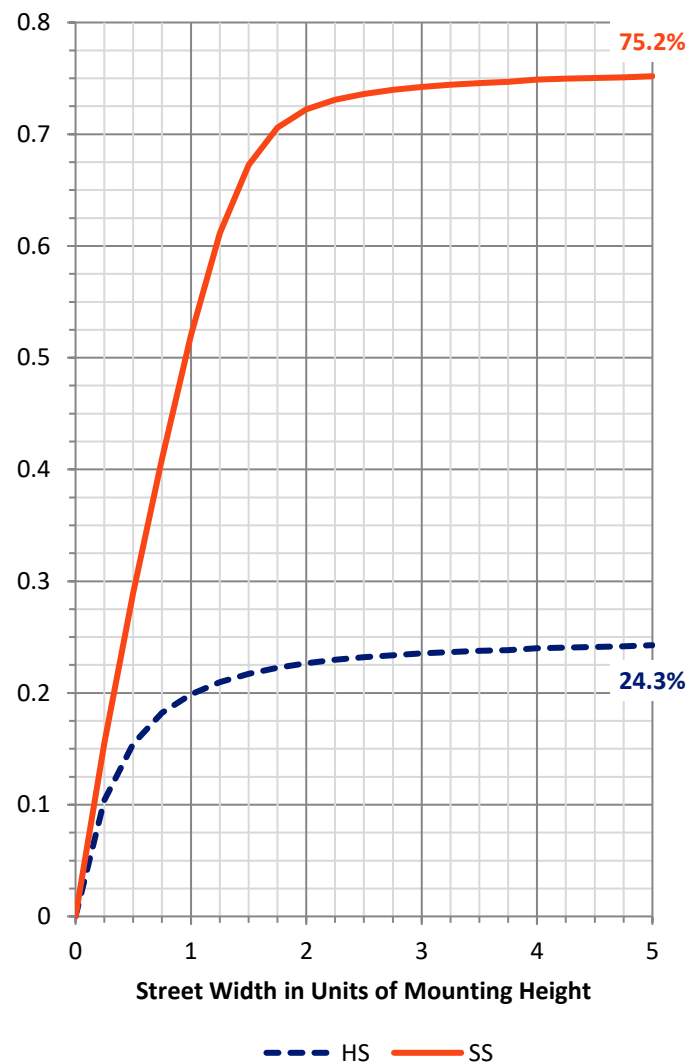
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10316.3	0.0	10316.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	31530.7	0.0	31530.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	41847.0	0.0	41847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.3	1.4
10°-20°	1664.3	4.0
20°-30°	2784.2	6.7
30°-40°	4349.7	10.4
40°-50°	6927.3	16.6
50°-60°	9640.3	23.0
60°-70°	10084.1	24.1
70°-80°	5270.5	12.6
80°-90°	547.3	1.3
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°	41847.0	100.0
0°-180°	41847.0	100.0

Coefficient of Utilization



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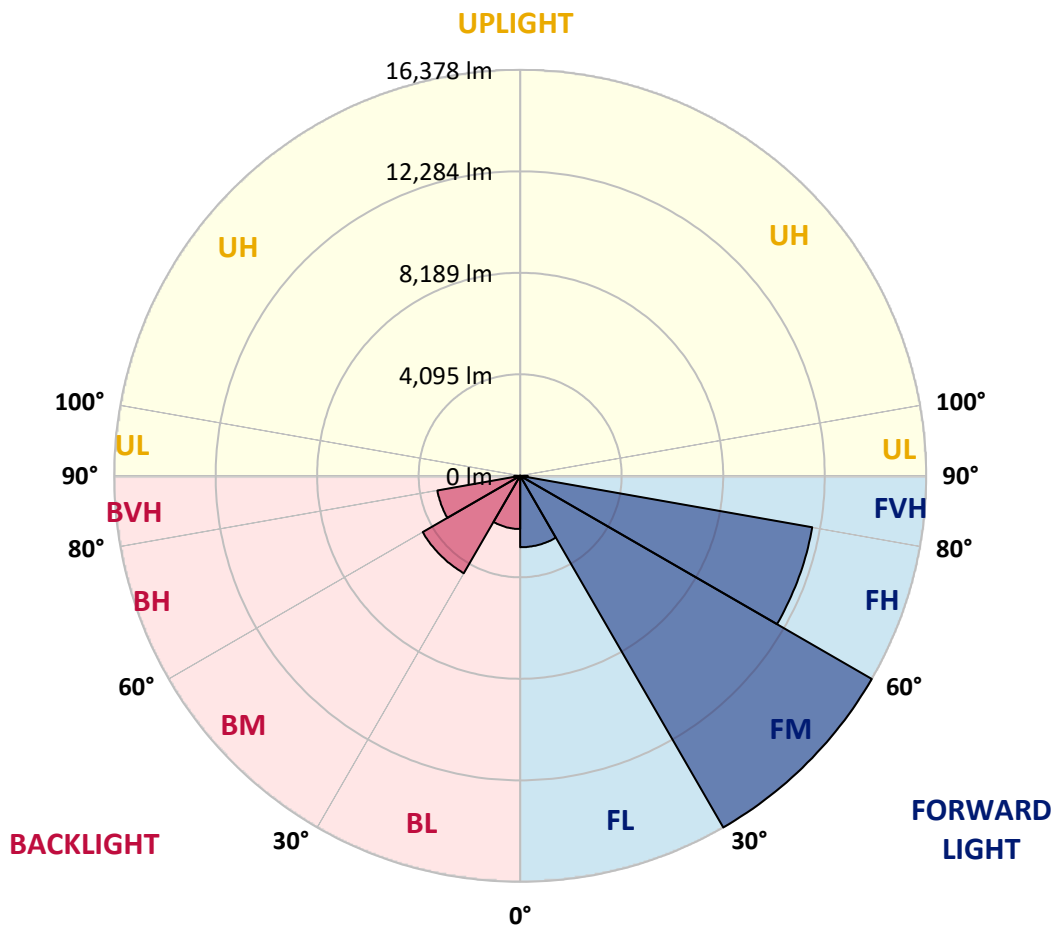
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2881.6	6.9			
FM	(30°-60°)	16378.5	39.1			
FH	(60°-80°)	11964.2	28.6			G4/12000
FVH	(80°-90°)	306.4	0.7			G3/500
BL	(0°-30°)	2146.2	5.1	B3/2500		
BM	(30°-60°)	4538.8	10.8	B3/5000		
BH	(60°-80°)	3390.5	8.1	B4/5000		G4/5000
BVH	(80°-90°)	240.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3
2.5°	6281.8	6317.4	6306.3	6295.2	6295.2	6279.6	6277.4	6255.2	6237.4	6208.6	6201.9
5°	6361.8	6399.5	6395.1	6404.0	6432.8	6439.5	6446.2	6432.8	6397.3	6361.8	6346.2
7.5°	6290.7	6332.9	6346.2	6399.5	6488.4	6568.3	6628.2	6652.7	6619.4	6568.3	6543.9
10°	6050.9	6097.5	6144.2	6270.7	6428.4	6617.1	6777.0	6872.5	6865.8	6817.0	6774.8
12.5°	5564.6	5613.5	5713.4	5959.9	6248.5	6581.6	6879.2	7079.0	7147.9	7112.3	7039.0
15°	5176.0	5218.2	5293.7	5546.9	5922.1	6428.4	6916.9	7305.5	7480.9	7460.9	7372.1
17.5°	5164.9	5182.7	5229.3	5349.2	5637.9	6188.6	6876.9	7527.6	7862.9	7860.6	7749.6
20°	5360.3	5367.0	5393.6	5418.1	5582.4	6006.5	6774.8	7711.9	8291.4	8291.4	8171.5
22.5°	5631.2	5626.8	5653.4	5631.2	5711.2	5991.0	6710.4	7874.0	8768.8	8804.4	8653.4
25°	6037.6	6015.4	6008.7	5957.7	5973.2	6135.3	6781.5	8058.3	9335.1	9408.3	9219.6
27.5°	6579.4	6543.9	6519.4	6401.8	6361.8	6432.8	6999.1	8280.3	9965.7	10092.3	9852.4
30°	7285.5	7221.1	7185.6	6981.3	6837.0	6848.1	7327.7	8575.6	10625.2	10829.5	10525.3
32.5°	8249.2	8149.3	8053.8	7718.5	7454.3	7367.7	7751.8	8984.2	11340.2	11666.6	11275.8
35°	9328.4	9248.5	9146.3	8628.9	8222.6	8022.7	8324.7	9554.9	12177.3	12694.7	12186.2
37.5°	10367.6	10298.8	10347.6	9650.4	9126.3	8835.4	9075.3	10321.0	13209.9	13973.7	13327.6
40°	11442.3	11389.0	11395.7	10729.5	10118.9	9792.5	9985.7	11282.5	14393.4	15494.8	14699.8
42.5°	12610.3	12570.4	12437.1	11846.5	11160.3	10856.1	11033.8	12392.7	15663.5	17226.8	16205.3
45°	13918.2	13893.8	13769.4	13092.2	12306.1	11964.2	12204.0	13618.4	16940.3	18856.6	17717.5
47.5°	15048.5	15068.4	15052.9	14482.2	13667.3	13165.5	13451.9	14897.5	18128.3	20388.8	19167.5
50°	15592.5	15696.8	15850.1	15672.4	15166.1	14655.4	14710.9	16132.1	19260.8	21825.5	20557.6
52.5°	15308.3	15505.9	15923.3	16207.6	16403.0	16296.4	16147.6	17357.8	20326.6	23122.3	21872.1
55°	14249.1	14526.6	15219.4	15905.6	16902.6	17677.6	17873.0	18716.8	21365.8	24263.6	23115.6
57.5°	12319.4	12770.2	13391.9	14779.8	16458.5	18345.9	19884.7	20602.0	22467.2	25482.7	24416.8
60°	9010.9	9614.8	10387.6	12452.7	14904.1	17988.4	21596.8	23497.5	24032.7	27061.5	26111.1
62.5°	5766.7	6139.7	6850.3	8795.5	11613.3	16156.5	22120.8	27117.0	26686.2	29650.6	28651.4
65°	3948.1	4187.9	4838.5	5931.0	7507.6	12026.3	20717.4	29830.4	30900.7	33754.1	32994.7
67.5°	2868.9	3051.0	3606.1	4563.2	4891.8	7116.8	16076.6	29706.1	34997.6	37982.0	36800.7
70°	2091.7	2220.5	2686.8	3606.1	3763.8	3959.2	9739.2	25251.7	34908.8	39105.6	37691.1
72.5°	1549.9	1638.7	1951.8	2797.9	3046.6	2673.5	4820.7	18352.6	29997.0	35370.6	34236.0
75°	1121.4	1188.0	1418.9	2140.6	2438.1	2036.2	2404.8	10725.1	20923.9	24880.9	25080.8
77.5°	857.1	908.2	1059.2	1567.7	1951.8	1527.7	1492.2	4934.0	9921.3	9970.1	10529.7
80°	688.4	721.7	803.8	1103.6	1496.6	1143.6	972.6	1991.8	3135.4	2653.5	2784.5
82.5°	506.3	561.8	679.5	775.0	1070.3	788.3	592.9	1005.9	1192.4	1025.9	1034.8
85°	288.7	326.4	410.8	555.1	683.9	481.9	339.7	446.3	555.1	455.2	406.4
87.5°	102.1	133.2	144.3	217.6	297.5	199.8	131.0	128.8	182.1	135.5	113.2
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°	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3	6135.3
2.5°	6179.7	6168.6	6124.2	6064.2	6002.1	5942.1	5922.1	5879.9	5851.1	5835.5	5853.3
5°	6304.1	6268.5	6164.2	6030.9	5891.0	5740.0	5633.5	5535.8	5464.7	5398.1	5424.7
7.5°	6481.7	6419.5	6239.7	6006.5	5757.8	5506.9	5320.4	5178.2	5082.8	5020.6	5033.9
10°	6688.2	6592.7	6317.4	5968.8	5584.6	5224.9	5005.0	4882.9	4823.0	4789.7	4798.5
12.5°	6925.8	6790.3	6397.3	5882.2	5320.4	4909.6	4758.6	4723.0	4725.3	4727.5	4731.9
15°	7218.9	7030.2	6461.7	5693.4	4976.2	4667.5	4640.9	4698.6	4758.6	4787.4	4785.2
17.5°	7549.8	7283.3	6472.8	5382.5	4638.7	4512.1	4596.5	4720.8	4811.9	4851.8	4860.7
20°	7905.0	7540.9	6392.9	4942.9	4361.1	4385.5	4536.5	4696.4	4796.3	4847.4	4860.7
22.5°	8311.4	7816.2	6201.9	4481.0	4134.6	4247.9	4425.5	4580.9	4685.3	4736.4	4749.7
25°	8775.5	8124.9	5902.1	4092.4	3939.2	4092.4	4270.1	4398.8	4483.2	4529.9	4543.2
27.5°	9290.7	8446.9	5502.4	3783.8	3768.2	3932.5	4079.1	4179.0	4223.4	4259.0	4272.3
30°	9808.0	8740.0	5018.4	3550.6	3619.4	3774.9	3879.2	3923.7	3937.0	3943.6	3959.2
32.5°	10367.6	8993.1	4509.9	3357.4	3477.3	3621.7	3683.8	3703.8	3641.7	3599.5	3612.8
35°	11044.9	9264.0	4012.5	3204.2	3337.4	3461.8	3481.8	3464.0	3390.7	3304.1	3308.6
37.5°	11882.0	9601.5	3615.0	3095.4	3206.4	3288.6	3264.2	3259.7	3266.4	3164.2	3170.9
40°	12907.9	10041.2	3324.1	3011.0	3099.8	3117.6	3048.8	3086.5	3119.8	2964.4	2968.8
42.5°	14047.0	10571.9	3139.8	2953.3	3011.0	2968.8	2862.2	2904.4	2900.0	2695.7	2693.5
45°	15208.3	11149.2	3075.4	2911.1	2928.9	2844.5	2726.8	2737.9	2644.6	2460.3	2467.0
47.5°	16363.0	11768.7	3115.4	2875.6	2826.7	2731.2	2640.2	2591.3	2453.7	2316.0	2316.0
50°	17495.5	12419.4	3261.9	2804.5	2686.8	2631.3	2564.7	2478.1	2331.5	2213.9	2205.0
52.5°	18545.8	13074.4	3426.3	2686.8	2511.4	2544.7	2502.5	2402.6	2258.3	2138.4	2140.6
55°	19540.6	13729.5	3490.7	2524.7	2347.1	2469.2	2444.8	2260.5	2087.3	1989.6	1980.7
57.5°	20624.2	14517.8	3419.6	2318.2	2213.9	2382.6	2289.4	2085.1	1985.1	1911.9	1905.2
60°	22125.2	15754.6	3266.4	2062.9	2087.3	2253.8	2093.9	2009.6	1900.8	1818.6	1814.2
62.5°	24618.9	18061.7	3019.9	1809.7	1938.5	2062.9	2000.7	1916.3	1805.3	1725.3	1725.3
65°	28305.0	21268.1	2555.8	1612.1	1772.0	1876.3	1900.8	1816.4	1700.9	1616.5	1621.0
67.5°	31413.7	23279.9	1934.1	1447.8	1601.0	1725.3	1794.2	1712.0	1589.9	1507.7	1510.0
70°	31242.7	21818.8	1476.6	1285.7	1450.0	1576.6	1665.4	1601.0	1470.0	1392.3	1398.9
72.5°	27749.8	18252.7	1194.6	1121.4	1296.8	1421.1	1527.7	1478.9	1345.6	1270.1	1270.1
75°	20386.6	12956.7	954.8	954.8	1105.8	1259.0	1376.7	1345.6	1223.5	1170.2	1154.7
77.5°	8593.4	5435.8	748.3	792.7	919.3	1081.4	1227.9	1239.0	1132.5	1199.1	1088.1
80°	2284.9	1498.9	570.7	624.0	721.7	892.6	1068.1	1063.6	948.2	886.0	823.8
82.5°	870.4	590.7	406.4	439.7	521.8	683.9	846.0	872.7	757.2	655.1	655.1
85°	335.3	253.1	250.9	264.2	304.2	453.0	639.5	661.7	570.7	484.1	499.6
87.5°	86.6	75.5	93.3	88.8	139.9	242.0	366.4	379.7	348.6	202.1	288.7
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)