

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: P953794

Luminaire Tested: **GALN-SB7B-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38132 lumens
Efficiency: N/A
Efficacy: 148.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 256.7
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

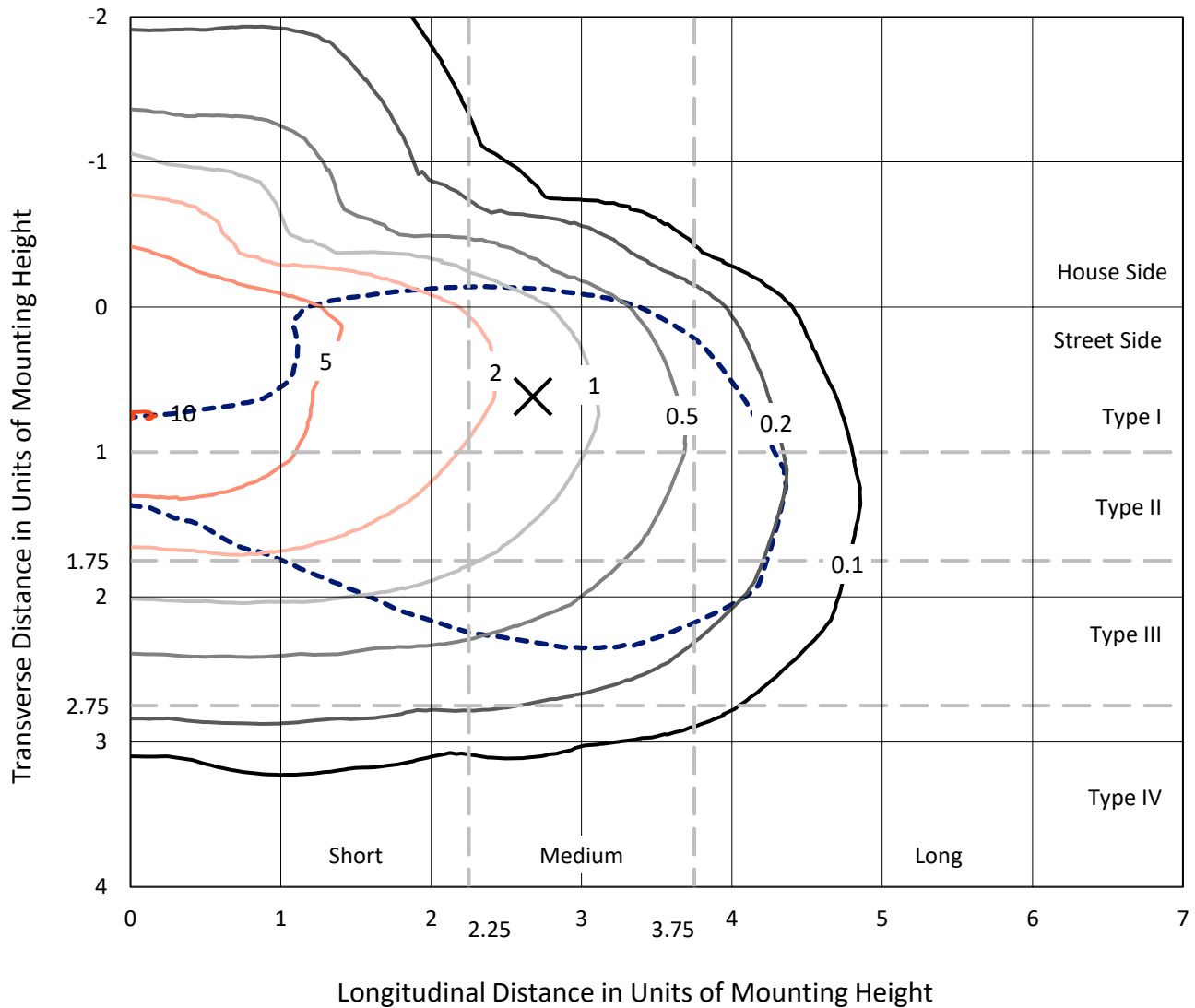


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

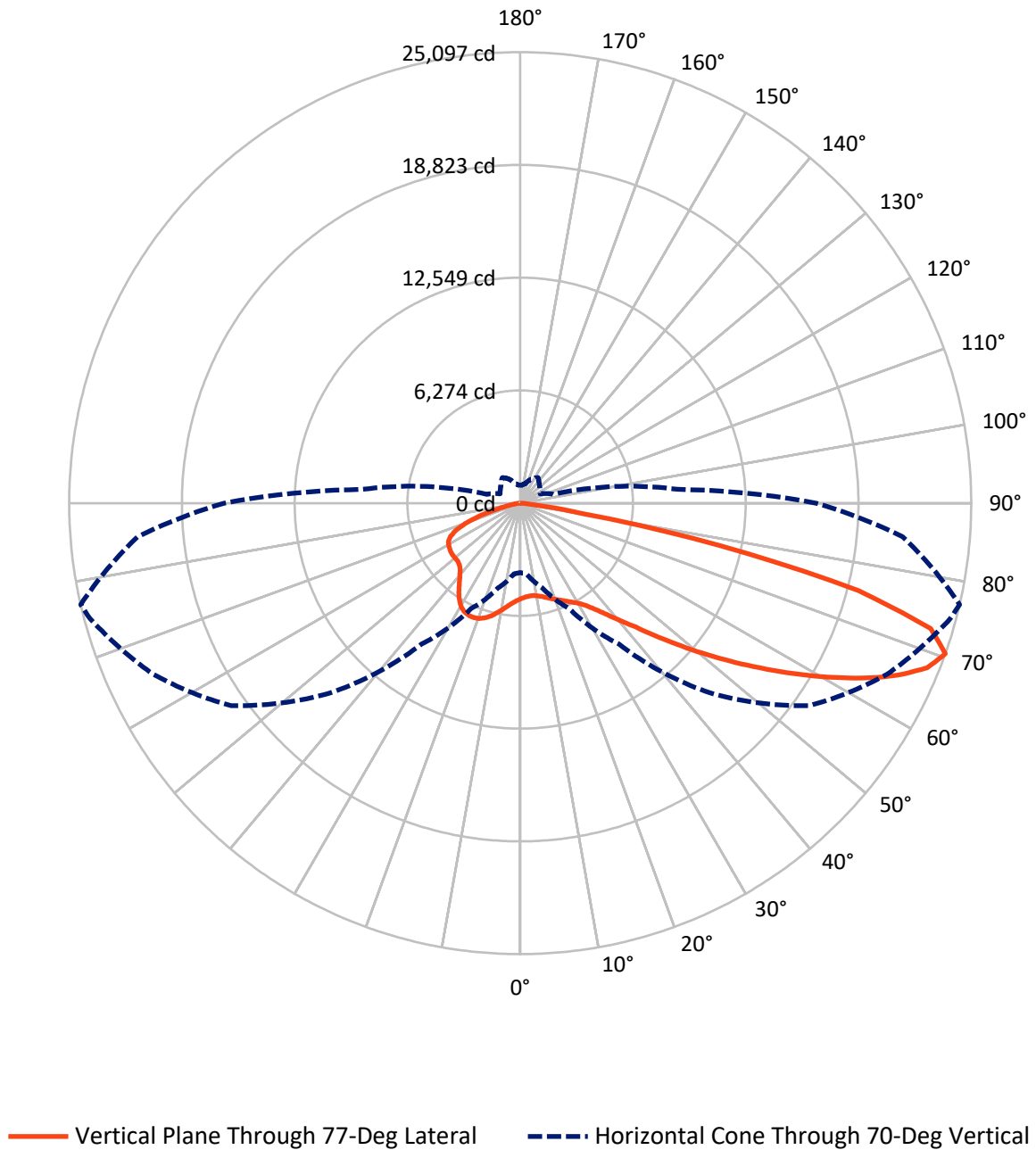


Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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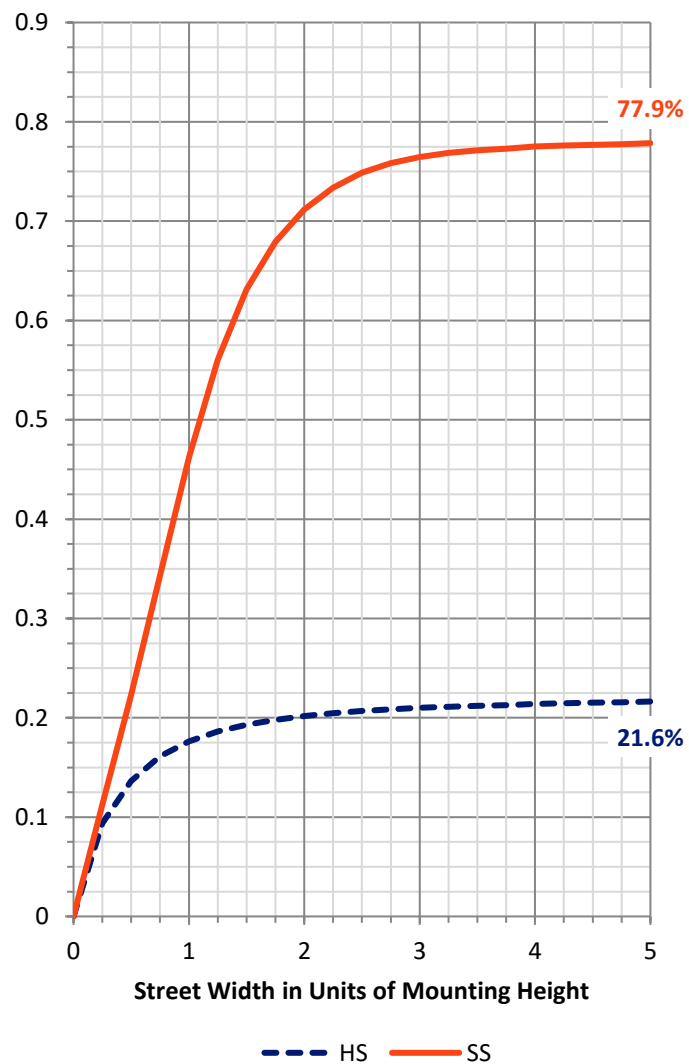
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8350.3	0.0	8350.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	29781.7	0.0	29781.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	38132.0	0.0	38132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.4	1.3
10°-20°	1464.3	3.8
20°-30°	2504.2	6.6
30°-40°	4026.9	10.6
40°-50°	6287.1	16.5
50°-60°	8398.1	22.0
60°-70°	8951.0	23.5
70°-80°	5510.2	14.5
80°-90°	482.8	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°	38132.0	100.0
0°-180°	38132.0	100.0

Coefficient of Utilization



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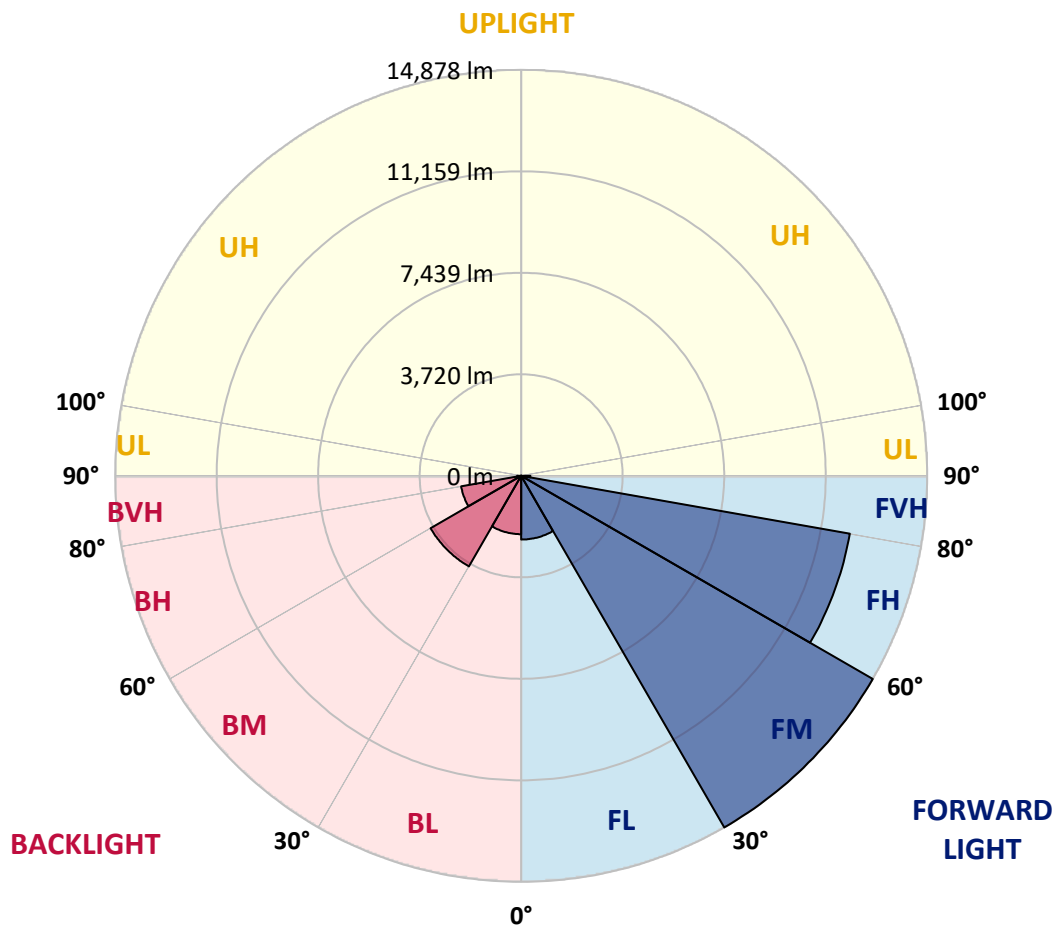
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2336.2	6.1			
FM	(30°-60°)	14878.3	39.0			
FH	(60°-80°)	12229.6	32.1			G5
FVH	(80°-90°)	337.6	0.9			G3/500
BL	(0°-30°)	2139.6	5.6	B3/2500		
BM	(30°-60°)	3833.8	10.1	B3/5000		
BH	(60°-80°)	2231.7	5.9	B3/2500		G3/2500
BVH	(80°-90°)	145.2	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8
2.5°	4903.8	4901.8	4927.2	4935.0	4981.9	5015.1	5077.6	5144.0	5229.9	5239.7	5292.4
5°	4620.6	4620.6	4649.9	4681.2	4741.7	4808.1	4903.8	5019.0	5167.4	5190.9	5321.7
7.5°	4380.4	4396.0	4421.4	4482.0	4552.3	4648.0	4794.4	4958.5	5153.8	5190.9	5401.8
10°	4187.1	4204.6	4235.9	4284.7	4390.2	4523.0	4714.4	4925.3	5187.0	5245.6	5519.0
12.5°	4126.5	4144.1	4161.7	4198.8	4296.4	4452.7	4681.2	4940.9	5267.0	5325.6	5679.1
15°	4267.1	4288.6	4274.9	4265.2	4316.0	4458.5	4696.8	4997.5	5366.6	5450.6	5876.3
17.5°	4591.3	4599.1	4567.9	4476.1	4468.3	4544.5	4771.0	5075.6	5491.6	5583.4	6075.5
20°	5114.7	5101.0	5036.6	4855.0	4751.5	4735.8	4897.9	5192.8	5620.5	5718.2	6290.4
22.5°	5825.6	5809.9	5681.1	5394.0	5163.5	5011.2	5081.5	5345.1	5765.0	5874.4	6499.3
25°	6712.2	6690.7	6501.3	6110.7	5753.3	5376.4	5331.5	5546.3	5942.7	6044.3	6718.1
27.5°	7747.2	7729.7	7524.6	7009.0	6493.5	5876.3	5642.0	5782.6	6128.3	6243.5	6964.1
30°	8860.4	8911.2	8547.9	7993.3	7341.0	6528.6	6059.9	6073.6	6368.5	6472.0	7262.9
32.5°	10168.9	10256.8	9819.3	9116.2	8225.7	7237.5	6587.2	6479.8	6718.1	6804.0	7639.8
35°	11465.6	11565.2	11202.0	10424.7	9399.4	8073.4	7137.9	6946.5	7182.9	7276.6	8139.8
37.5°	12586.6	12719.4	12531.9	11856.2	10655.1	9081.1	7856.6	7495.3	7755.1	7872.2	8811.6
40°	13471.3	13674.4	13660.7	13238.9	12135.5	10303.6	8768.6	8173.0	8465.9	8592.9	9626.0
42.5°	14189.9	14365.7	14518.0	14496.5	13680.2	11692.1	9840.8	9053.8	9276.4	9422.9	10541.9
45°	14686.0	14873.5	15201.6	15555.0	15166.4	13178.3	11069.2	10098.6	10301.7	10522.3	11633.6
47.5°	15129.3	15342.2	15767.9	16328.4	16428.0	14670.4	12414.7	11315.2	11500.8	11729.3	12729.2
50°	15168.4	15351.9	16012.0	16806.9	17324.4	16103.8	13859.9	12680.3	12854.1	13098.3	13902.9
52.5°	14225.1	14514.1	15666.3	16793.2	17736.4	17302.9	15295.3	14100.1	14295.4	14588.3	15117.6
55°	11041.8	11465.6	14652.8	16269.8	17590.0	18078.2	16660.4	15609.7	15859.7	16166.3	16340.1
57.5°	9510.7	9696.3	11631.6	15316.8	16922.1	18279.4	17812.6	17134.9	17537.2	17873.1	17632.9
60°	8547.9	8702.2	9846.6	13834.5	16043.3	17961.0	18703.1	18556.7	19251.9	19652.3	18955.1
62.5°	7516.8	7663.3	8704.2	11551.5	14918.4	17431.8	19265.6	19869.0	21009.5	21447.0	20201.0
65°	6493.5	6618.5	7616.4	9706.0	13488.8	16902.5	19556.6	21003.7	22636.3	23089.4	21236.1
67.5°	5353.0	5456.5	6399.7	8188.6	11750.7	16178.0	19701.1	21896.2	24052.2	24440.8	21747.7
70°	3862.9	3943.0	4917.5	6475.9	9569.3	14932.0	19642.5	22528.9	24786.5	25097.0	21361.1
72.5°	1826.0	1898.2	3042.7	4204.6	6759.1	12506.5	18457.1	22027.0	24040.5	23886.2	18994.1
75°	974.5	1037.0	1747.9	2306.4	3569.9	8573.3	15103.9	18974.6	20187.4	19437.4	14037.6
77.5°	660.1	708.9	1081.9	1384.6	1630.7	4069.9	9708.0	13137.3	12639.3	11401.2	7030.5
80°	523.4	574.2	886.6	937.4	789.0	1470.6	4011.3	6081.4	4368.7	3493.8	1999.8
82.5°	402.3	458.9	746.0	679.6	429.6	603.5	1167.8	1923.6	1119.0	851.5	484.3
85°	246.1	306.6	585.9	433.5	242.2	275.4	396.4	535.1	341.8	285.1	173.8
87.5°	125.0	175.8	296.8	158.2	109.4	64.4	105.5	105.5	89.8	78.1	44.9
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°	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8	5319.8
2.5°	5339.3	5378.3	5444.7	5507.2	5556.1	5602.9	5649.8	5675.2	5683.0	5714.3	5731.8
5°	5401.8	5474.0	5602.9	5724.0	5800.2	5847.1	5880.3	5899.8	5903.7	5913.5	5929.1
7.5°	5517.0	5632.2	5811.9	5933.0	5989.6	5985.7	5972.0	5923.2	5903.7	5886.1	5890.0
10°	5679.1	5831.4	6052.1	6136.1	6100.9	6007.2	5886.1	5743.5	5677.1	5612.7	5593.2
12.5°	5880.3	6073.6	6290.4	6286.5	6112.6	5872.4	5591.2	5372.5	5233.8	5134.2	5110.8
15°	6124.4	6347.0	6513.0	6380.2	5999.4	5567.8	5155.7	4870.6	4745.6	4636.2	4624.5
17.5°	6376.3	6614.5	6690.7	6350.9	5714.3	5116.7	4649.9	4425.3	4302.3	4243.7	4261.3
20°	6622.4	6858.7	6796.2	6183.0	5280.7	4605.0	4189.0	4066.0	4040.6	4054.3	4048.4
22.5°	6882.1	7093.0	6817.7	5858.8	4728.0	4081.6	3853.1	3857.0	3913.7	3954.7	3964.4
25°	7147.7	7290.3	6761.0	5390.1	4134.3	3696.9	3640.2	3702.7	3814.1	3894.1	3915.6
27.5°	7403.5	7466.0	6638.0	4810.0	3624.6	3421.5	3431.3	3560.2	3728.1	3839.4	3866.8
30°	7692.6	7622.3	6401.7	4157.8	3271.1	3185.2	3267.2	3417.6	3585.6	3685.2	3708.6
32.5°	8018.7	7757.0	6026.7	3554.3	3021.2	2995.8	3130.5	3228.2	3302.4	3331.7	3347.3
35°	8424.9	7946.4	5546.3	3130.5	2796.6	2857.1	2986.0	2937.2	2907.9	2892.3	2907.9
37.5°	8952.2	8202.3	4983.9	2855.2	2615.0	2757.5	2810.3	2657.9	2542.7	2486.1	2499.7
40°	9586.9	8577.2	4442.9	2642.3	2499.7	2671.6	2579.8	2396.2	2249.8	2169.7	2175.6
42.5°	10291.9	8969.8	3987.9	2482.2	2435.3	2601.3	2409.9	2191.2	1954.9	1929.5	1954.9
45°	11032.1	9374.0	3677.4	2359.1	2404.0	2540.8	2312.3	1958.8	1790.8	1894.3	1949.0
47.5°	11772.2	9745.1	3489.9	2267.3	2388.4	2472.4	2226.3	1829.9	1710.8	1861.1	1931.4
50°	12596.4	10077.1	3405.9	2200.9	2370.8	2445.1	2097.4	1796.7	1626.8	1726.4	1800.6
52.5°	13414.6	10334.9	3343.4	2134.5	2345.5	2423.6	2034.9	1757.6	1525.2	1531.1	1572.1
55°	14230.9	10502.8	3275.1	2046.7	2288.8	2376.7	2029.1	1714.7	1449.1	1421.7	1441.3
57.5°	15102.0	10598.5	3191.1	1949.0	2191.2	2257.6	2023.2	1681.5	1425.6	1380.7	1386.6
60°	15988.6	10739.1	3081.7	1829.9	2060.3	2115.0	2009.6	1669.7	1412.0	1335.8	1341.7
62.5°	16783.4	10787.9	2950.9	1716.6	1892.4	1974.4	1980.3	1660.0	1374.9	1244.0	1244.0
65°	17304.8	10577.0	2722.4	1587.7	1710.8	1829.9	1923.6	1626.8	1308.5	1177.6	1177.6
67.5°	17283.4	9975.5	2365.0	1421.7	1535.0	1669.7	1841.6	1570.1	1228.4	1095.6	1101.4
70°	16478.8	8788.2	1911.9	1228.4	1341.7	1497.9	1736.1	1486.2	1132.7	1005.8	1017.5
72.5°	14133.3	6878.2	1388.5	1001.8	1117.1	1320.2	1599.4	1384.6	1035.0	925.7	919.8
75°	10096.6	4353.1	941.3	769.5	869.1	1119.0	1429.5	1265.5	945.2	929.6	876.9
77.5°	5157.7	2079.9	623.0	562.4	605.4	882.7	1201.0	1130.7	958.9	767.5	683.5
80°	1677.6	767.5	392.5	382.8	402.3	587.8	929.6	927.6	726.5	521.4	460.9
82.5°	535.1	330.0	255.8	246.1	236.3	369.1	648.4	734.3	490.2	330.0	328.1
85°	212.9	197.2	150.4	138.7	99.6	173.8	339.8	488.2	365.2	238.3	244.1
87.5°	78.1	78.1	41.0	29.3	21.5	58.6	91.8	146.5	209.0	123.0	121.1
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)