

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: P944499

Luminaire Tested: **GALN-SB9C-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55695 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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



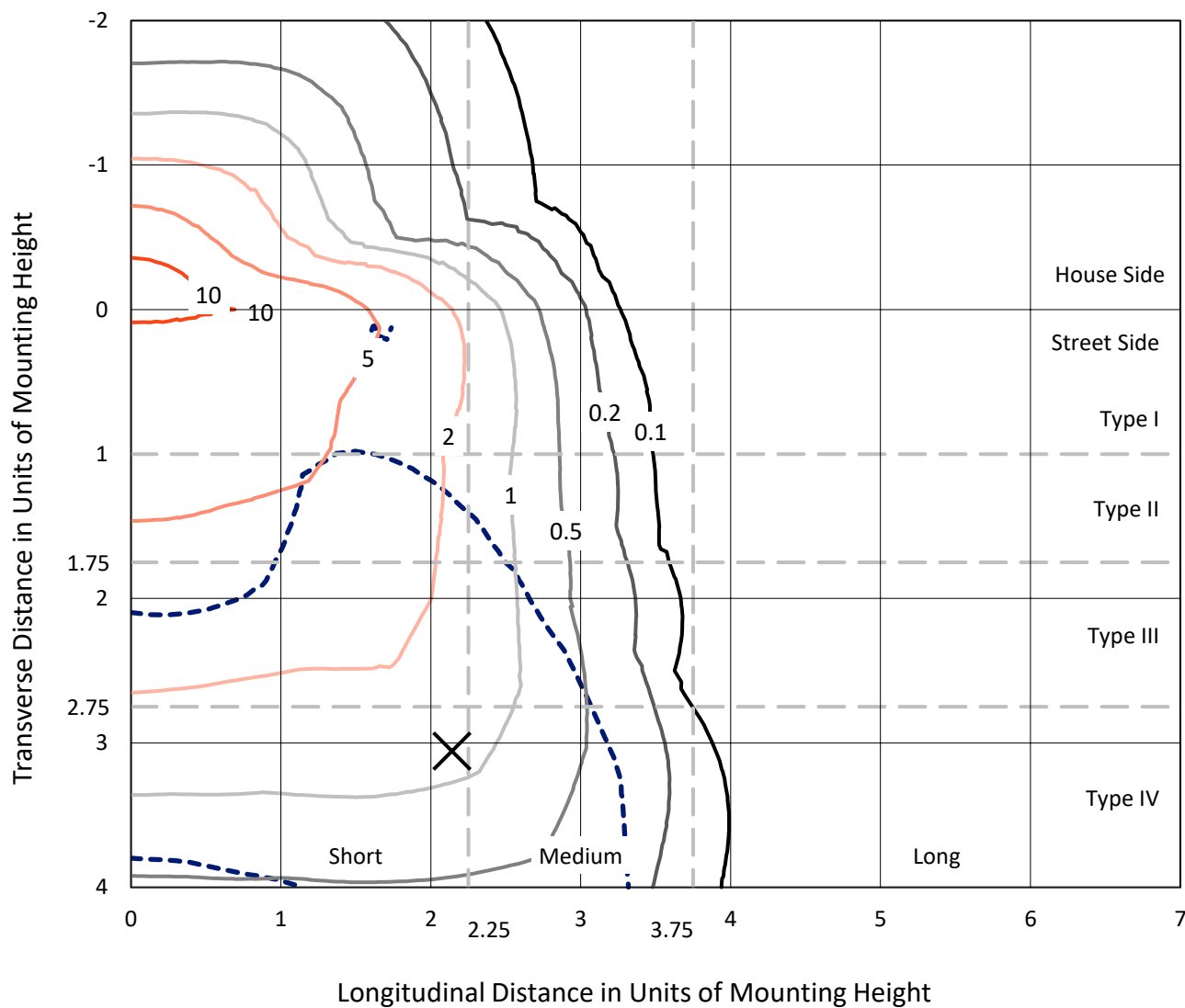
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

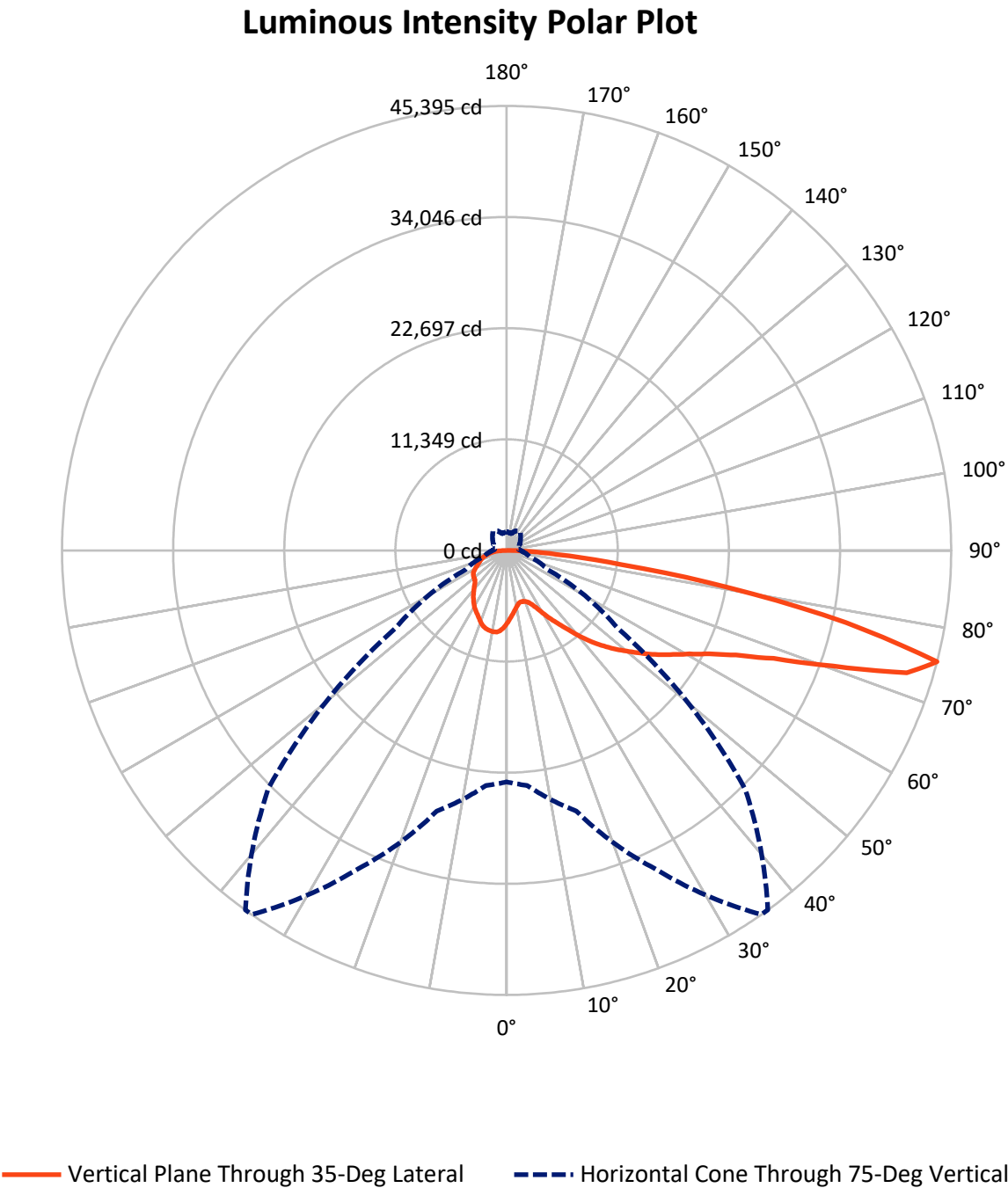
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc

Type IV - Short - N/A

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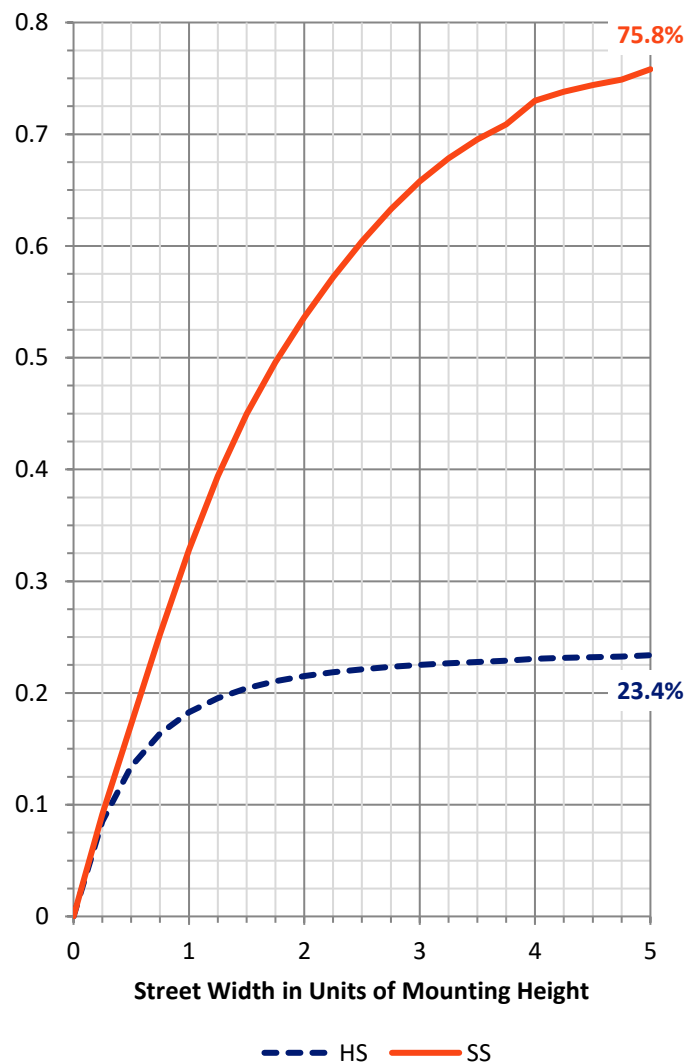
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13254.0	0.0	13254.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	42441.0	0.0	42441.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	55695.0	0.0	55695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.7	1.3
10°-20°	2026.9	3.6
20°-30°	3403.6	6.1
30°-40°	5289.7	9.5
40°-50°	7851.3	14.1
50°-60°	10839.3	19.5
60°-70°	13150.5	23.6
70°-80°	10867.9	19.5
80°-90°	1563.1	2.8
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°	55695.0	100.0
0°-180°	55695.0	100.0

Coefficient of Utilization



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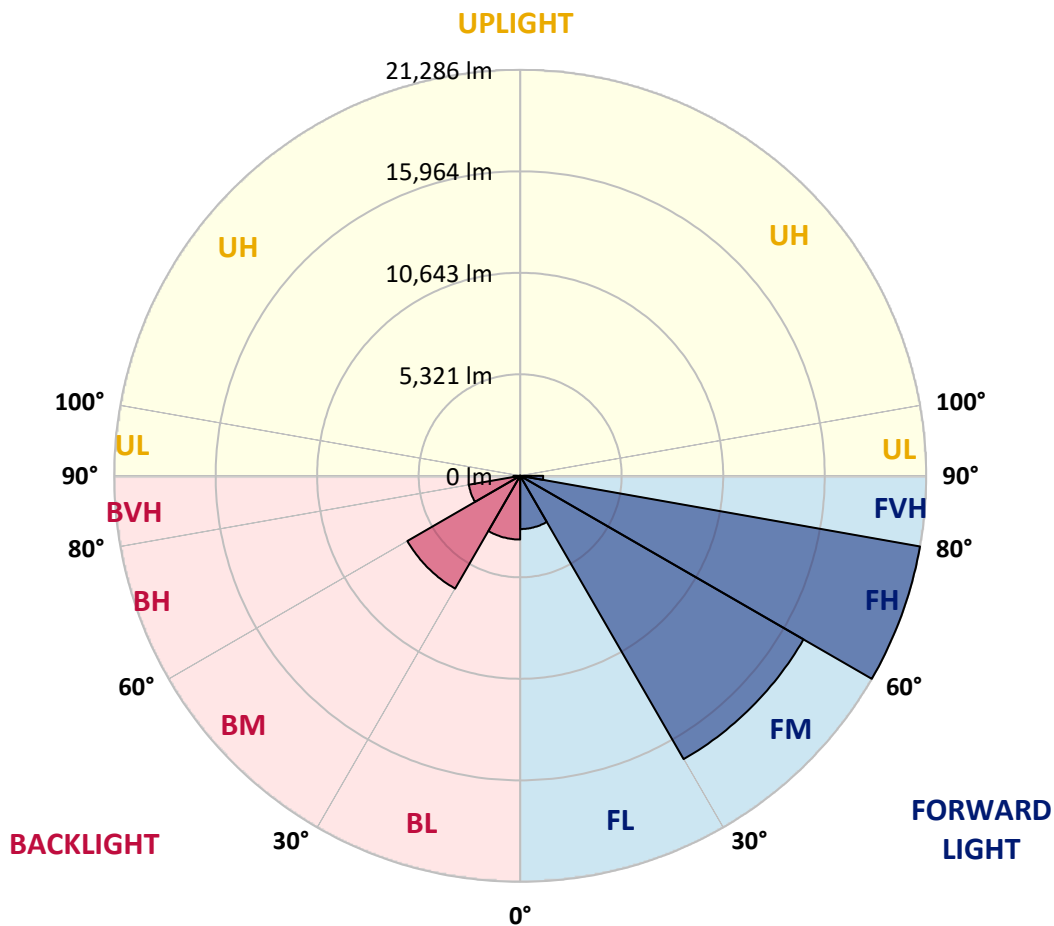
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2793.0	5.0			
FM	(30°-60°)	17151.0	30.8			
FH	(60°-80°)	21285.8	38.2			G5
FVH	(80°-90°)	1211.2	2.2			G5
BL	(0°-30°)	3340.2	6.0	B4/5000		
BM	(30°-60°)	6829.3	12.3	B4/8500		
BH	(60°-80°)	2732.6	4.9	B4/5000		G4/5000
BVH	(80°-90°)	352.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7
2.5°	6843.7	6885.8	6903.9	6894.8	6940.0	6934.0	6997.2	7075.5	7183.9	7289.3	7442.8
5°	6316.8	6361.9	6401.1	6437.2	6524.5	6551.6	6651.0	6801.5	7000.2	7201.9	7454.9
7.5°	5826.0	5865.1	5925.3	5991.6	6139.1	6166.2	6331.8	6566.7	6843.7	7138.7	7488.0
10°	5425.5	5464.7	5527.9	5603.2	5786.8	5820.0	6030.7	6343.9	6705.2	7078.5	7524.1
12.5°	5253.9	5266.0	5302.1	5377.4	5536.9	5558.0	5789.9	6148.1	6569.7	7033.3	7578.3
15°	5244.9	5269.0	5272.0	5311.1	5443.6	5452.6	5666.4	6021.7	6485.4	7024.3	7659.6
17.5°	5335.2	5353.3	5326.2	5350.3	5461.7	5476.7	5645.3	5961.5	6458.3	7063.4	7798.1
20°	5576.1	5591.1	5509.8	5476.7	5558.0	5570.1	5735.7	6000.6	6485.4	7144.7	7987.8
22.5°	6087.9	6097.0	5898.2	5762.8	5768.8	5774.8	5919.3	6160.2	6590.7	7292.3	8228.6
25°	6885.8	6879.8	6563.6	6301.7	6151.2	6118.0	6214.4	6419.1	6768.4	7488.0	8538.8
27.5°	7819.2	7774.0	7457.9	7066.5	6738.3	6690.1	6669.0	6756.3	7021.3	7746.9	8918.1
30°	8873.0	8830.8	8490.6	7978.7	7524.1	7445.8	7247.1	7201.9	7397.6	8099.2	9445.0
32.5°	10029.1	10002.0	9595.6	8975.3	8367.1	8276.8	7942.6	7822.2	7975.7	8632.1	10179.7
35°	10998.6	10974.5	10637.3	9999.0	9255.3	9143.9	8803.7	8668.2	8746.5	9315.6	11140.1
37.5°	11874.8	11862.7	11573.7	11070.9	10303.1	10167.6	9785.2	9740.1	9725.0	10215.8	12305.3
40°	12687.7	12657.6	12356.5	12091.6	11522.5	11399.1	11061.8	11022.7	10908.3	11323.8	13624.1
42.5°	13587.9	13509.7	13073.1	12949.6	12796.1	12693.7	12492.0	12498.0	12245.1	12573.3	15021.1
45°	14322.6	14277.4	13828.8	13756.6	13922.2	13880.0	14054.6	14099.8	13609.0	13883.0	16472.3
47.5°	15111.4	15069.3	14689.9	14638.7	15087.3	15099.4	15716.6	15731.7	14939.8	15243.9	17926.6
50°	16083.9	16023.7	15647.4	15710.6	16213.4	16258.6	17387.6	17285.3	16165.2	16625.9	19368.8
52.5°	16725.2	16761.4	16680.1	16782.5	17468.9	17511.1	19031.6	18769.6	17378.6	17989.8	20783.9
55°	17198.0	17270.2	17523.1	17758.0	18793.7	18835.9	20582.1	20181.7	18384.2	19254.4	22114.7
57.5°	17806.1	17703.8	18176.5	18634.1	20052.2	20163.6	22090.6	21542.6	19275.4	20344.3	23027.0
60°	18679.3	18607.0	18974.4	19651.8	21461.3	21639.0	23686.3	22768.0	19928.8	21208.4	23204.6
62.5°	20449.7	20269.0	20326.2	20925.4	23237.7	23472.6	25486.8	23836.9	20254.0	21545.6	22253.2
65°	23096.2	22786.1	22497.0	22912.5	25739.7	25971.6	27519.1	24676.9	20133.5	20892.3	19727.1
67.5°	26429.2	26122.1	25766.8	26158.2	29425.0	29608.7	30027.2	25149.6	19185.1	18375.2	15262.0
70°	29178.1	29063.7	29488.2	31099.0	35311.2	35317.2	33242.8	24758.2	16586.8	13027.9	8830.8
72.5°	28813.8	28744.5	30981.6	35961.5	42729.9	42570.4	36286.7	21795.5	11173.2	5877.2	3308.9
75°	23638.2	24086.8	27552.3	35874.2	45394.5	45373.4	34423.0	13855.9	4621.6	2435.8	1710.2
77.5°	12675.7	13386.2	17887.4	26486.4	35437.7	35970.6	24201.2	4847.5	1984.1	1559.6	1183.3
80°	4133.9	4754.1	7129.7	13485.6	23027.0	22927.6	10372.4	1902.9	1357.9	1105.0	819.0
82.5°	1755.3	1827.6	3185.5	6367.9	11817.6	11633.9	3302.9	1092.9	954.4	755.7	505.8
85°	686.5	767.8	1406.1	2944.6	5118.4	5007.0	1192.3	542.0	611.2	493.8	301.1
87.5°	225.8	274.0	502.8	1008.6	1592.7	1535.5	292.1	186.7	265.0	225.8	108.4
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°	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7	7421.7
2.5°	7485.0	7533.1	7590.3	7674.6	7746.9	7807.1	7870.4	7909.5	7924.5	7969.7	7966.7
5°	7539.2	7644.5	7786.0	7924.5	8060.0	8141.3	8213.6	8249.7	8282.8	8306.9	8312.9
7.5°	7629.5	7765.0	7987.8	8168.4	8282.8	8349.1	8397.2	8385.2	8397.2	8403.3	8412.3
10°	7707.8	7897.4	8162.4	8334.0	8421.3	8424.3	8412.3	8370.2	8349.1	8352.1	8358.1
12.5°	7801.1	8011.9	8297.9	8442.4	8466.5	8400.3	8349.1	8276.8	8249.7	8237.7	8231.7
15°	7927.6	8168.4	8445.4	8499.6	8439.4	8355.1	8267.8	8150.4	8090.1	8042.0	8057.0
17.5°	8081.1	8346.1	8559.8	8520.7	8391.2	8252.7	8111.2	7933.6	7810.1	7759.0	7762.0
20°	8294.9	8532.7	8647.1	8475.5	8279.8	8069.1	7828.2	7611.4	7497.0	7445.8	7439.8
22.5°	8553.8	8782.6	8731.5	8397.2	8120.3	7783.0	7482.0	7322.4	7265.2	7229.0	7235.1
25°	8863.9	9059.6	8791.7	8282.8	7858.3	7403.7	7171.8	7120.7	7093.6	7066.5	7066.5
27.5°	9267.4	9372.8	8836.8	8114.2	7448.8	7000.2	6915.9	6924.9	6915.9	6870.8	6879.8
30°	9800.3	9779.2	8879.0	7840.2	6979.1	6635.9	6641.9	6681.1	6687.1	6657.0	6672.0
32.5°	10501.8	10288.1	8900.1	7485.0	6530.5	6316.8	6322.8	6364.9	6395.0	6343.9	6367.9
35°	11350.9	10881.2	8866.9	7039.4	6184.3	6012.7	5967.5	5979.5	5988.6	5940.4	5973.5
37.5°	12341.5	11546.6	8719.4	6545.6	5898.2	5714.6	5618.2	5536.9	5488.8	5443.6	5473.7
40°	13428.4	12272.2	8448.4	6063.8	5579.1	5398.4	5253.9	5100.4	4937.8	4877.6	4904.7
42.5°	14566.5	13018.9	8120.3	5603.2	5211.8	5064.2	4910.7	4687.9	4444.0	4320.6	4335.6
45°	15746.7	13783.7	7798.1	5148.5	4835.4	4772.2	4594.6	4326.6	4061.6	3905.1	3893.0
47.5°	16902.9	14506.3	7325.4	4690.9	4483.1	4552.4	4413.9	4167.0	3871.9	3625.1	3598.0
50°	18007.9	15183.7	6551.6	4227.2	4197.1	4486.2	4353.7	3998.4	3661.2	3345.0	3318.0
52.5°	19103.8	15731.7	5561.0	3805.7	4043.6	4468.1	4275.4	3884.0	3471.5	3140.3	3104.2
55°	20034.2	16014.7	4606.6	3444.4	3820.8	4314.5	4182.1	3748.5	3203.5	2851.3	2821.2
57.5°	20564.1	15785.9	3811.7	3089.1	3513.7	4061.6	4022.5	3459.5	2884.4	2613.4	2577.3
60°	20335.3	14858.5	3161.4	2779.0	3221.6	3787.6	3745.5	3173.4	2640.5	2384.6	2348.5
62.5°	19073.7	13091.2	2646.5	2508.0	2956.7	3507.6	3468.5	2953.6	2453.8	2207.0	2167.8
65°	16532.6	10649.4	2246.1	2282.2	2688.7	3170.4	3227.6	2770.0	2306.3	2065.4	2026.3
67.5°	12609.4	7713.8	1933.0	2086.5	2426.7	2839.2	3004.8	2637.5	2182.9	1954.0	1917.9
70°	7186.9	4380.8	1668.0	1896.8	2194.9	2532.1	2833.2	2532.1	2050.4	1860.7	1836.6
72.5°	2724.8	2011.2	1442.2	1707.1	1972.1	2273.2	2643.5	2366.5	1896.8	1755.3	1731.2
75°	1454.2	1225.4	1213.4	1484.3	1716.2	2020.3	2405.7	2203.9	1782.4	1854.7	1914.9
77.5°	990.6	867.1	1014.7	1270.6	1436.2	1740.3	2152.8	1957.0	1544.6	1538.5	1418.1
80°	686.5	614.2	825.0	1023.7	1111.0	1463.3	1878.8	1680.1	1258.5	1174.2	1123.0
82.5°	412.5	400.4	617.2	764.8	785.8	1129.1	1556.6	1409.1	1029.7	897.2	903.3
85°	225.8	237.9	394.4	448.6	457.6	788.8	1219.4	1089.9	791.9	665.4	671.4
87.5°	63.2	81.3	144.5	177.6	219.8	409.5	725.6	647.3	397.4	277.0	277.0
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)