

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: P944005

Luminaire Tested: **GALN-SB8D-730-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944005
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-SB8D-730-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81532 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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

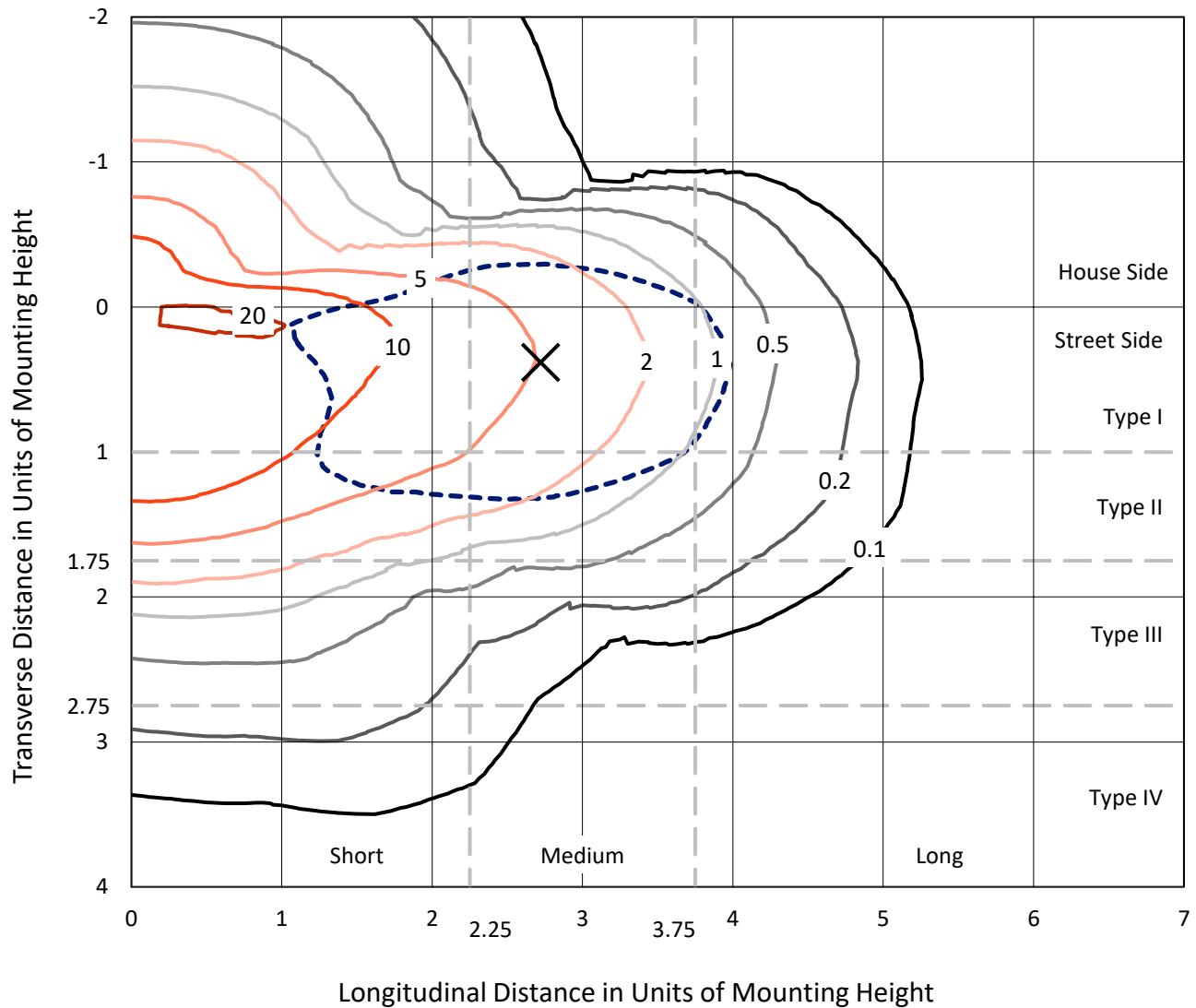


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

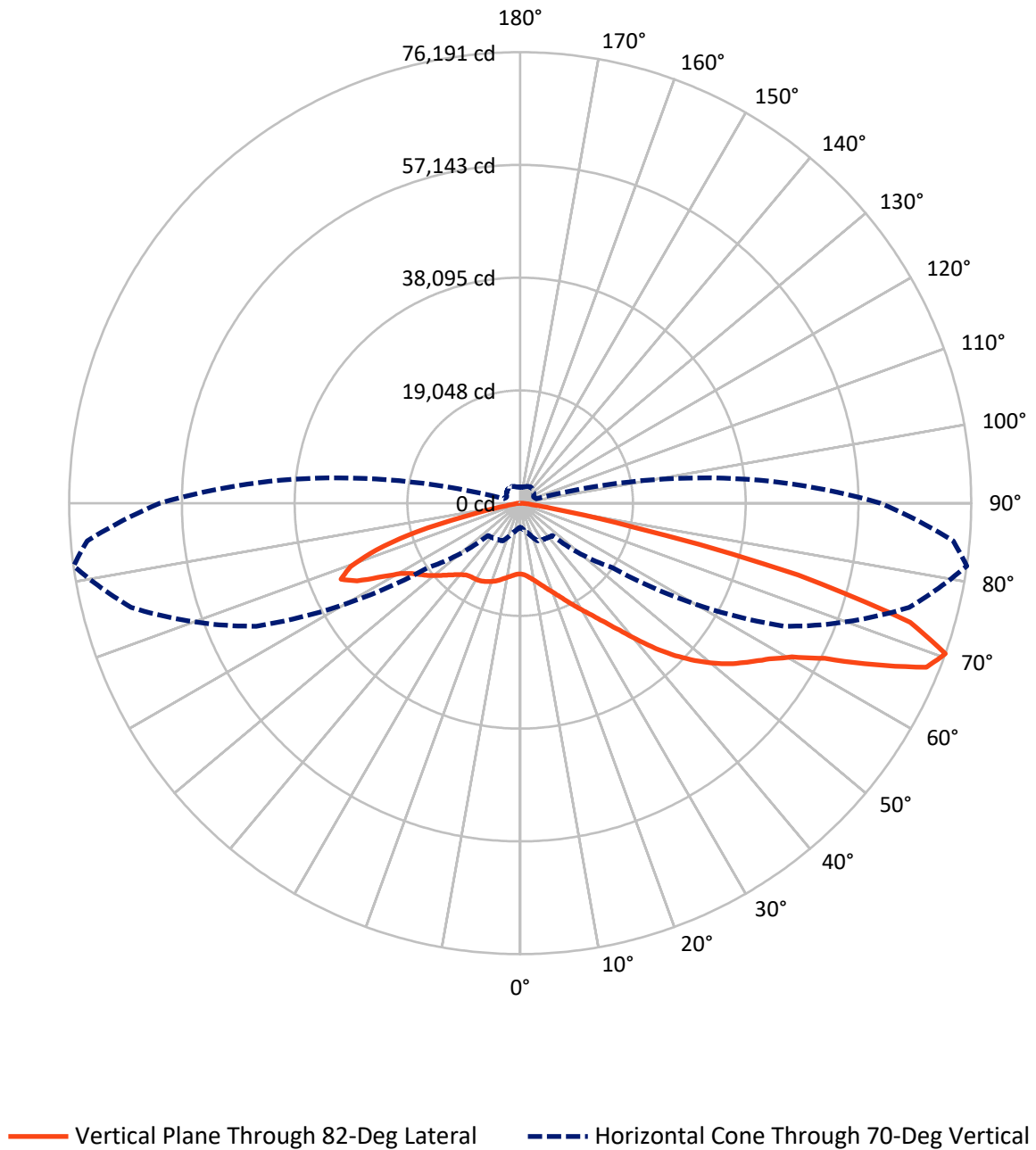


Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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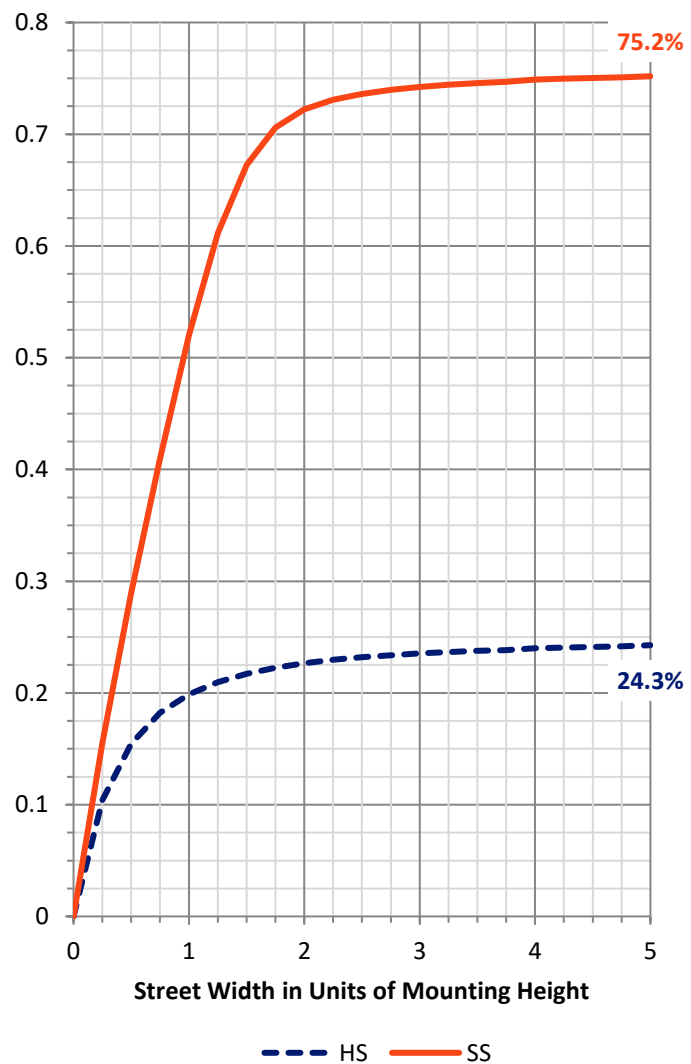
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20099.6	0.0	20099.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	61432.4	0.0	61432.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	81532.0	0.0	81532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1128.6	1.4
10°-20°	3242.6	4.0
20°-30°	5424.6	6.7
30°-40°	8474.6	10.4
40°-50°	13496.8	16.6
50°-60°	18782.4	23.0
60°-70°	19647.3	24.1
70°-80°	10268.7	12.6
80°-90°	1066.3	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°	81532.0	100.0
0°-180°	81532.0	100.0

Coefficient of Utilization



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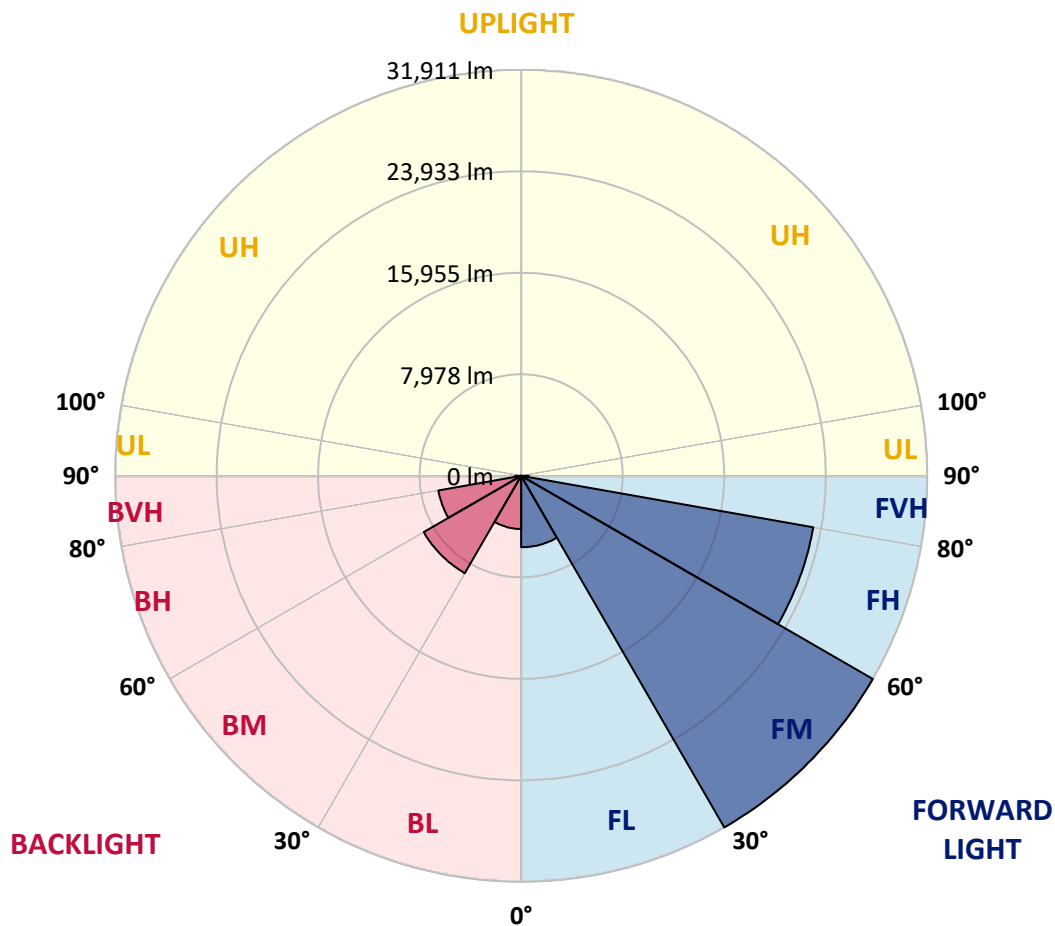
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5614.4	6.9			
FM	(30°-60°)	31910.8	39.1			
FH	(60°-80°)	23310.3	28.6			G5
FVH	(80°-90°)	596.9	0.7			G4/750
BL	(0°-30°)	4181.5	5.1	B4/5000		
BM	(30°-60°)	8843.0	10.8	B5		
BH	(60°-80°)	6605.8	8.1	B5		G5
BVH	(80°-90°)	469.4	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6
2.5°	12239.1	12308.4	12286.7	12265.1	12265.1	12234.8	12230.5	12187.2	12152.6	12096.4	12083.4
5°	12394.9	12468.4	12459.8	12477.1	12533.3	12546.3	12559.3	12533.3	12464.1	12394.9	12364.6
7.5°	12256.5	12338.7	12364.6	12468.4	12641.5	12797.2	12914.1	12961.6	12896.7	12797.2	12749.7
10°	11789.2	11880.1	11970.9	12217.5	12524.7	12892.4	13203.9	13389.9	13377.0	13281.8	13199.6
12.5°	10841.7	10936.9	11131.6	11611.8	12174.3	12823.2	13402.9	13792.3	13926.4	13857.2	13714.4
15°	10084.6	10166.8	10313.9	10807.1	11538.3	12524.7	13476.5	14233.6	14575.4	14536.4	14363.4
17.5°	10063.0	10097.6	10188.5	10422.1	10984.5	12057.4	13398.6	14666.2	15319.5	15315.2	15098.8
20°	10443.7	10456.7	10508.6	10556.2	10876.4	11702.7	13199.6	15025.3	16154.5	16154.5	15920.8
22.5°	10971.5	10962.9	11014.8	10971.5	11127.3	11672.4	13074.1	15341.1	17084.6	17153.8	16859.7
25°	11763.3	11720.0	11707.0	11607.5	11637.8	11953.6	13212.6	15700.2	18187.8	18330.6	17962.9
27.5°	12818.9	12749.7	12702.1	12472.8	12394.9	12533.3	13636.5	16132.8	19416.5	19663.1	19195.9
30°	14194.6	14069.2	14000.0	13601.9	13320.7	13342.4	14276.8	16708.2	20701.4	21099.4	20506.7
32.5°	16072.3	15877.6	15691.5	15038.3	14523.4	14354.7	15103.2	17504.3	22094.5	22730.5	21969.0
35°	18174.9	18019.1	17820.1	16812.1	16020.3	15631.0	16219.4	18616.1	23725.5	24733.5	23742.8
37.5°	20199.6	20065.5	20160.6	18802.2	17781.2	17214.4	17681.7	20108.7	25737.3	27225.5	25966.5
40°	22293.5	22189.7	22202.7	20904.8	19715.0	19079.1	19455.4	21982.0	28043.2	30189.0	28640.2
42.5°	24569.1	24491.3	24231.7	23080.9	21744.1	21151.4	21497.5	24145.2	30517.8	33563.6	31573.5
45°	27117.3	27069.8	26827.5	25508.0	23976.4	23310.2	23777.4	26533.3	33005.5	36739.1	34519.7
47.5°	29319.4	29358.4	29328.1	28216.2	26628.5	25650.7	26208.8	29025.3	35320.0	39724.2	37344.8
50°	30379.4	30582.7	30881.2	30535.1	29548.7	28553.7	28661.8	31430.7	37526.5	42523.4	40053.0
52.5°	29825.6	30210.7	31024.0	31577.8	31958.5	31750.8	31461.0	33818.8	39603.1	45049.9	42614.2
55°	27762.0	28302.8	29652.6	30989.4	32931.9	34441.8	34822.5	36466.5	41627.8	47273.7	45036.9
57.5°	24002.4	24880.6	26092.0	28796.0	32066.7	35744.0	38742.2	40139.6	43773.7	49648.8	47572.2
60°	17556.2	18732.9	20238.5	24262.0	29038.2	35047.5	42077.7	45781.1	46823.7	52724.8	50873.1
62.5°	11235.4	11962.3	13346.7	17136.5	22626.6	31478.3	43098.8	52833.0	51993.7	57769.3	55822.5
65°	7692.2	8159.4	9427.0	11555.6	14627.3	23431.3	40364.5	58119.7	60205.0	65764.3	64284.7
67.5°	5589.6	5944.4	7025.9	8890.6	9530.9	13865.8	31322.5	57877.5	68187.1	74001.6	71700.0
70°	4075.4	4326.3	5234.8	7025.9	7333.1	7713.8	18975.2	49198.9	68014.0	76190.7	73434.9
72.5°	3019.8	3192.8	3802.8	5451.2	5935.7	5208.9	9392.4	35757.0	58444.2	68913.9	66703.1
75°	2184.8	2314.6	2764.5	4170.6	4750.3	3967.2	4685.4	20896.1	40766.9	48476.4	48865.7
77.5°	1670.0	1769.5	2063.7	3054.4	3802.8	2976.5	2907.3	9613.1	19330.0	19425.2	20515.4
80°	1341.2	1406.1	1566.1	2150.2	2915.9	2228.1	1894.9	3880.7	6108.8	5169.9	5425.2
82.5°	986.4	1094.6	1323.9	1509.9	2085.3	1535.8	1155.1	1959.8	2323.2	1998.8	2016.1
85°	562.4	636.0	800.4	1081.6	1332.5	938.8	661.9	869.6	1081.6	886.9	791.7
87.5°	199.0	259.6	281.2	424.0	579.7	389.4	255.3	250.9	354.8	263.9	220.6
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°	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6	11953.6
2.5°	12040.1	12018.5	11932.0	11815.2	11694.0	11577.2	11538.3	11456.1	11399.8	11369.6	11404.2
5°	12282.4	12213.2	12009.9	11750.3	11477.7	11183.5	10975.9	10785.5	10647.1	10517.3	10569.2
7.5°	12628.5	12507.4	12156.9	11702.7	11218.1	10729.3	10365.9	10089.0	9902.9	9781.8	9807.8
10°	13030.9	12844.8	12308.4	11629.1	10880.7	10179.8	9751.5	9513.6	9396.8	9331.9	9349.2
12.5°	13493.8	13229.9	12464.1	11460.4	10365.9	9565.5	9271.3	9202.1	9206.4	9210.7	9219.4
15°	14064.9	13697.1	12589.6	11092.7	9695.3	9093.9	9042.0	9154.5	9271.3	9327.5	9323.2
17.5°	14709.5	14190.3	12611.2	10487.0	9037.7	8791.1	8955.5	9197.7	9375.1	9453.0	9470.3
20°	15401.7	14692.2	12455.5	9630.4	8496.9	8544.5	8838.7	9150.2	9344.8	9444.3	9470.3
22.5°	16193.4	15228.6	12083.4	8730.5	8055.6	8276.2	8622.3	8925.2	9128.5	9228.0	9254.0
25°	17097.6	15830.0	11499.3	7973.4	7674.9	7973.4	8319.5	8570.4	8734.8	8825.7	8851.6
27.5°	18101.3	16457.3	10720.6	7372.0	7341.8	7661.9	7947.4	8142.1	8228.7	8297.9	8323.8
30°	19109.3	17028.4	9777.5	6917.8	7051.9	7354.7	7558.1	7644.6	7670.6	7683.5	7713.8
32.5°	20199.6	17521.6	8786.7	6541.4	6775.0	7056.2	7177.4	7216.3	7095.2	7013.0	7038.9
35°	21519.1	18049.4	7817.7	6242.9	6502.5	6744.7	6783.7	6749.1	6606.3	6437.6	6446.2
37.5°	23150.1	18707.0	7043.2	6030.9	6247.2	6407.3	6359.7	6351.0	6364.0	6165.0	6178.0
40°	25148.9	19563.6	6476.5	5866.5	6039.5	6074.1	5940.0	6013.6	6078.5	5775.6	5784.3
42.5°	27368.3	20597.6	6117.4	5754.0	5866.5	5784.3	5576.6	5658.8	5650.2	5252.1	5247.8
45°	29630.9	21722.4	5991.9	5671.8	5706.4	5542.0	5312.7	5334.3	5152.6	4793.6	4806.5
47.5°	31880.6	22929.5	6069.8	5602.6	5507.4	5321.4	5144.0	5048.8	4780.6	4512.3	4512.3
50°	34087.0	24197.1	6355.4	5464.1	5234.8	5126.7	4996.9	4828.2	4542.6	4313.3	4296.0
52.5°	36133.4	25473.3	6675.5	5234.8	4893.1	4958.0	4875.8	4681.1	4399.9	4166.2	4170.6
55°	38071.6	26749.6	6801.0	4919.0	4572.9	4810.9	4763.3	4404.2	4066.7	3876.4	3859.1
57.5°	40182.8	28285.5	6662.5	4516.7	4313.3	4642.1	4460.4	4062.4	3867.7	3725.0	3712.0
60°	43107.4	30695.2	6364.0	4019.1	4066.7	4391.2	4079.7	3915.3	3703.3	3543.3	3534.6
62.5°	47965.9	35190.3	5883.8	3525.9	3776.9	4019.1	3898.0	3733.6	3517.3	3361.5	3361.5
65°	55147.5	41437.5	4979.6	3140.9	3452.4	3655.7	3703.3	3538.9	3314.0	3149.6	3158.2
67.5°	61204.4	45357.1	3768.2	2820.8	3119.3	3361.5	3495.7	3335.6	3097.6	2937.6	2941.9
70°	60871.3	42510.4	2877.0	2504.9	2825.1	3071.7	3244.7	3119.3	2864.0	2712.6	2725.6
72.5°	54066.0	35562.3	2327.6	2184.8	2526.6	2768.8	2976.5	2881.3	2621.7	2474.7	2474.7
75°	39719.9	25244.1	1860.3	1860.3	2154.5	2453.0	2682.3	2621.7	2383.8	2280.0	2249.7
77.5°	16742.8	10590.8	1458.0	1544.5	1791.1	2106.9	2392.5	2414.1	2206.4	2336.2	2119.9
80°	4451.8	2920.3	1111.9	1215.7	1406.1	1739.2	2081.0	2072.3	1847.3	1726.2	1605.1
82.5°	1695.9	1150.8	791.7	856.6	1016.7	1332.5	1648.3	1700.2	1475.3	1276.3	1276.3
85°	653.3	493.2	488.9	514.8	592.7	882.6	1246.0	1289.2	1111.9	943.1	973.4
87.5°	168.7	147.1	181.7	173.1	272.6	471.6	713.8	739.8	679.2	393.7	562.4
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)