

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: P944326

Luminaire Tested: **GALN-SB9B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33229 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 329.5
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

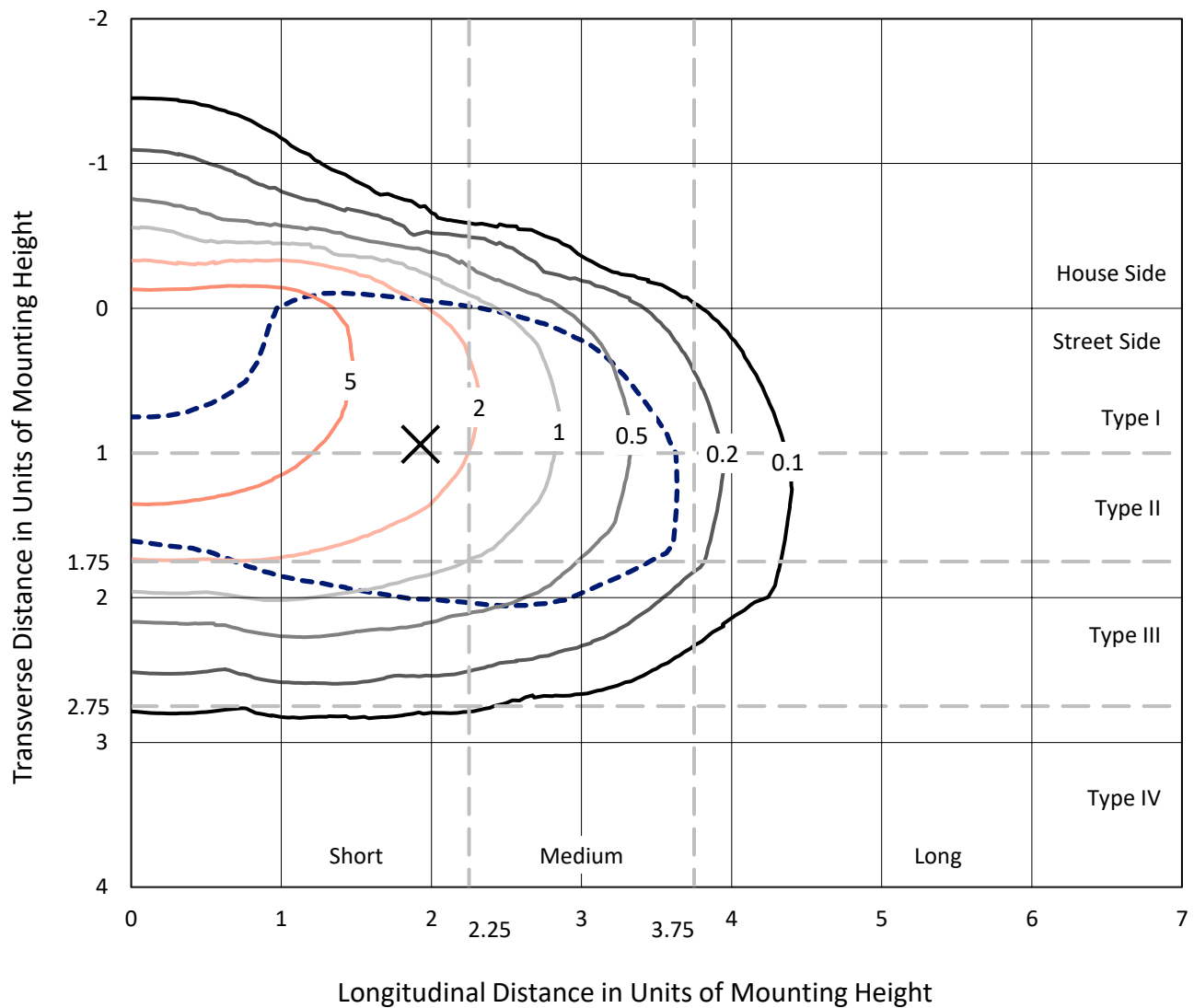


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

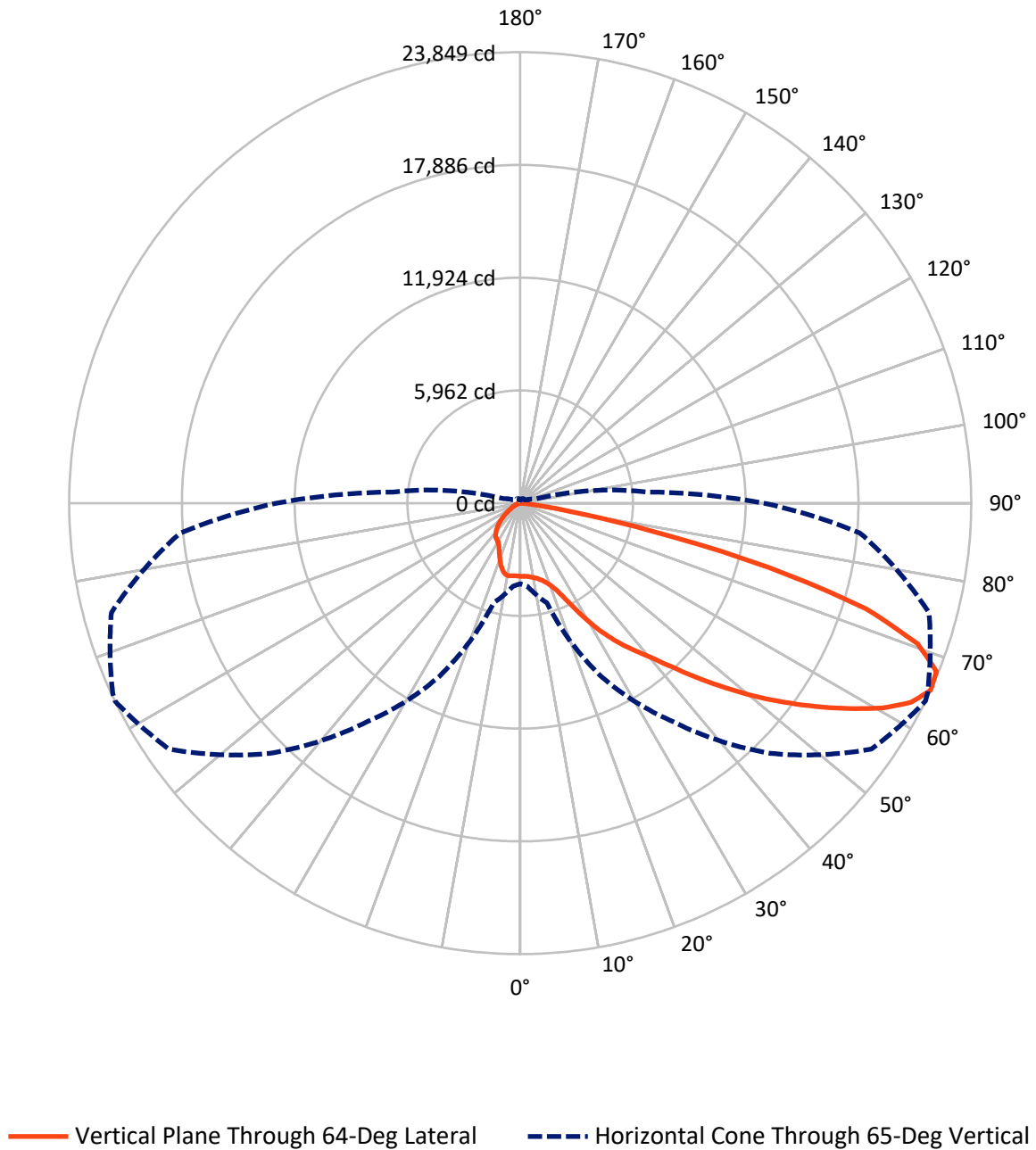


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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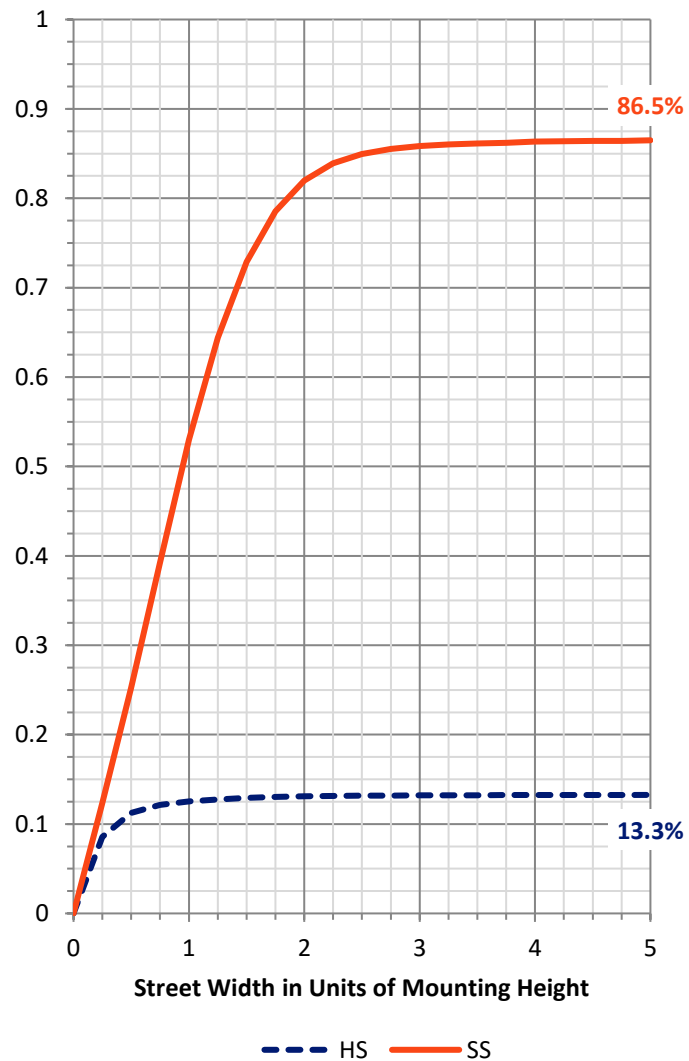
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4443.7	0.0	4443.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	28785.3	0.0	28785.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	33229.0	0.0	33229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	1.1
10°-20°	967.1	2.9
20°-30°	1832.6	5.5
30°-40°	3708.4	11.2
40°-50°	6317.2	19.0
50°-60°	8591.0	25.9
60°-70°	8067.4	24.3
70°-80°	3232.1	9.7
80°-90°	156.6	0.5
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°	33229.0	100.0
0°-180°	33229.0	100.0

Coefficient of Utilization



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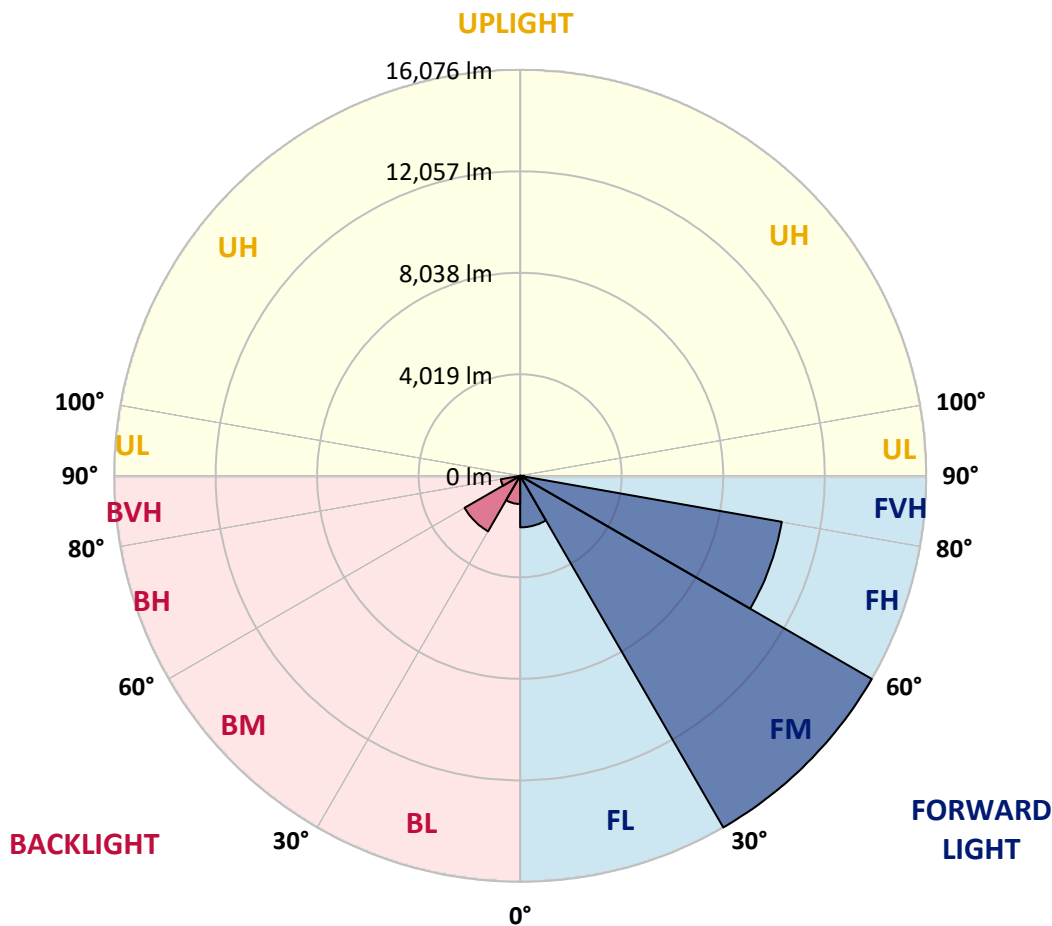
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2040.6	6.1			
FM	(30°-60°)	16076.1	48.4			
FH	(60°-80°)	10519.5	31.7			G4/12000
FVH	(80°-90°)	148.9	0.4			G2/225
BL	(0°-30°)	1115.7	3.4	B3/2500		
BM	(30°-60°)	2540.4	7.6	B3/5000		
BH	(60°-80°)	779.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
2.5°	3851.5	3878.2	3871.6	3864.9	3862.7	3867.1	3869.3	3867.1	3867.1	3867.1	3869.3
5°	3778.0	3800.3	3800.3	3815.9	3838.1	3864.9	3884.9	3889.4	3893.8	3900.5	3898.3
7.5°	3637.7	3655.5	3668.8	3720.1	3775.8	3847.1	3907.2	3938.4	3942.8	3967.3	3976.3
10°	3541.9	3564.2	3586.4	3639.9	3720.1	3827.0	3929.5	4005.2	4016.4	4074.3	4101.0
12.5°	3537.4	3559.7	3588.7	3646.6	3740.1	3853.7	3978.5	4087.6	4107.7	4192.3	4248.0
15°	3584.2	3610.9	3637.7	3708.9	3809.2	3947.3	4081.0	4216.8	4236.9	4357.2	4417.3
17.5°	3680.0	3715.6	3735.7	3807.0	3913.9	4067.6	4243.6	4399.5	4417.3	4557.7	4633.4
20°	3869.3	3911.7	3918.3	3976.3	4081.0	4245.8	4455.2	4649.0	4671.3	4831.7	4916.3
22.5°	4261.4	4321.5	4268.1	4297.0	4390.6	4555.4	4782.6	5027.7	5058.9	5241.5	5317.3
25°	4951.9	5036.6	4898.5	4849.5	4889.6	5061.1	5346.2	5655.9	5691.5	5838.5	5876.4
27.5°	6308.5	6199.4	5990.0	5785.1	5664.8	5762.8	6083.6	6466.7	6511.3	6653.8	6609.3
30°	7798.8	7703.0	7420.1	6965.7	6680.6	6665.0	6961.2	7388.9	7440.2	7576.1	7440.2
32.5°	9291.3	9200.0	8892.6	8333.4	7838.9	7593.9	7798.8	8273.3	8300.0	8386.9	8186.4
35°	10759.3	10665.7	10358.3	9785.8	9177.7	8620.8	8580.7	9115.3	9124.2	9215.6	8917.1
37.5°	12236.2	12158.2	11830.8	11269.4	10670.2	9901.7	9529.7	9912.8	9923.9	10013.0	9703.4
40°	13289.8	13323.2	13098.3	12663.9	12149.3	11309.5	10594.4	10761.5	10694.7	10843.9	10659.0
42.5°	14194.2	14261.1	14065.0	13846.7	13548.2	12808.7	11913.2	11884.2	11777.3	11857.5	11665.9
45°	14976.1	15031.8	14855.8	14804.6	14797.9	14278.9	13354.4	13180.7	13031.4	13015.8	12786.4
47.5°	15263.5	15370.4	15446.1	15617.7	15951.8	15733.5	14844.7	14575.2	14408.1	14285.6	13922.5
50°	15372.6	15486.2	15744.6	16243.6	17034.4	17128.0	16328.3	16025.3	15820.4	15597.6	15063.0
52.5°	15225.6	15428.3	15775.8	16615.6	17762.8	18246.2	17751.7	17486.6	17252.7	16889.6	16096.6
55°	14359.1	14561.8	15272.4	16611.2	18125.9	19030.3	19097.2	18979.1	18716.3	18143.8	16932.0
57.5°	12532.5	12833.2	13958.1	16045.4	18119.3	19705.3	20415.9	20500.6	20206.5	19386.8	17589.1
60°	10001.9	10409.6	11781.8	14791.2	17560.1	20070.6	21572.0	21995.3	21683.4	20611.9	18121.5
62.5°	6979.1	7451.3	8750.0	12826.5	16281.5	19807.8	22416.3	23198.2	22962.1	21707.9	18326.4
65°	4256.9	4408.4	5455.4	10093.2	14107.4	18707.3	22676.9	23848.6	23770.7	22378.4	18023.5
67.5°	2835.7	2962.7	3263.4	6921.1	10950.9	16508.7	22053.2	23735.0	23757.3	22269.3	16914.1
70°	1708.6	1817.7	2013.7	4025.3	7097.1	13067.1	20121.9	22287.1	22416.3	20810.2	14811.3
72.5°	703.9	777.4	955.6	1824.4	3675.5	8293.3	16023.1	19135.0	19435.8	17497.8	11367.4
75°	398.7	436.6	561.4	915.5	1595.0	3864.9	9705.6	13583.9	14027.2	12060.2	6838.7
77.5°	265.1	282.9	363.1	592.5	897.7	1318.7	4147.8	7077.1	7923.6	6587.0	2960.5
80°	178.2	193.8	249.5	396.5	583.6	565.8	1321.0	2621.9	3225.6	2263.2	721.7
82.5°	120.3	122.5	178.2	260.6	369.8	274.0	389.8	815.3	1024.7	654.9	274.0
85°	69.1	66.8	131.4	151.5	164.8	113.6	118.1	245.0	320.8	276.2	155.9
87.5°	8.9	13.4	51.2	40.1	22.3	24.5	24.5	42.3	62.4	66.8	33.4
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°	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9	3864.9
2.5°	3869.3	3867.1	3860.4	3853.7	3838.1	3829.2	3833.7	3829.2	3827.0	3829.2	3838.1
5°	3898.3	3891.6	3873.8	3851.5	3820.3	3782.5	3758.0	3722.3	3688.9	3668.8	3673.3
7.5°	3976.3	3969.6	3945.1	3882.7	3782.5	3624.3	3479.5	3352.5	3256.7	3201.1	3203.3
10°	4101.0	4089.9	4052.0	3913.9	3651.0	3305.8	3018.4	2780.0	2624.1	2550.6	2543.9
12.5°	4248.0	4234.7	4167.8	3884.9	3401.5	2862.5	2465.9	2200.9	2056.1	1991.5	1984.8
15°	4421.8	4404.0	4272.5	3746.8	3038.4	2372.4	2009.3	1811.0	1717.5	1659.6	1661.8
17.5°	4637.9	4606.7	4350.5	3539.6	2644.2	1998.2	1728.6	1579.4	1496.9	1441.3	1436.8
20°	4918.5	4867.3	4412.9	3292.4	2281.1	1762.0	1539.3	1414.5	1352.2	1303.1	1294.2
22.5°	5310.6	5237.1	4488.6	3025.1	2024.9	1599.4	1398.9	1307.6	1256.4	1200.7	1191.8
25°	5796.2	5709.3	4582.2	2777.8	1848.9	1459.1	1296.5	1220.7	1160.6	1096.0	1089.3
27.5°	6475.6	6319.7	4693.5	2575.1	1697.4	1338.8	1202.9	1118.3	1049.2	995.7	984.6
30°	7233.0	6976.8	4791.6	2452.6	1559.3	1227.4	1080.4	995.7	931.1	893.3	886.6
32.5°	7950.3	7602.8	4856.2	2399.1	1434.6	1100.4	946.7	855.4	806.4	795.3	801.9
35°	8627.5	8168.6	4849.5	2347.9	1323.2	973.5	815.3	721.7	683.9	690.6	690.6
37.5°	9407.1	8772.3	4802.7	2267.7	1231.9	857.6	701.7	619.3	585.9	588.1	597.0
40°	10313.8	9469.5	4773.7	2116.2	1131.6	750.7	608.1	541.3	516.8	507.9	505.7
42.5°	11280.5	10144.5	4778.2	1944.7	1006.9	654.9	543.5	487.8	465.6	458.9	456.7
45°	12251.8	10788.2	4784.9	1766.5	875.4	581.4	496.8	450.0	436.6	427.7	427.7
47.5°	13165.1	11336.2	4660.1	1574.9	746.2	525.7	458.9	427.7	416.6	405.4	405.4
50°	14016.0	11701.6	4359.4	1352.2	643.8	481.2	429.9	407.6	396.5	385.4	385.4
52.5°	14677.6	11759.5	3862.7	1122.7	572.5	447.7	412.1	392.1	378.7	367.6	365.3
55°	14971.7	11396.4	3156.5	908.9	516.8	418.8	394.3	374.2	358.6	347.5	345.3
57.5°	14895.9	10632.3	2461.5	730.7	463.3	389.8	372.0	358.6	340.8	323.0	320.8
60°	14523.9	9609.8	1855.6	608.1	414.3	358.6	347.5	336.4	311.9	285.1	280.7
62.5°	13880.1	8324.5	1323.2	503.4	360.9	323.0	318.5	309.6	274.0	225.0	220.5
65°	12895.5	6763.0	891.0	418.8	309.6	282.9	285.1	269.5	222.8	167.1	162.6
67.5°	11456.5	4945.3	570.3	343.0	258.4	236.1	238.4	229.4	189.3	142.6	135.9
70°	9623.2	3274.6	372.0	260.6	207.2	182.7	196.0	198.3	160.4	115.8	111.4
72.5°	7054.8	1933.6	260.6	193.8	151.5	127.0	160.4	164.8	129.2	86.9	82.4
75°	4020.8	917.8	196.0	140.3	93.6	89.1	124.7	124.7	89.1	57.9	53.5
77.5°	1688.5	383.1	138.1	91.3	53.5	51.2	84.6	78.0	44.6	26.7	26.7
80°	487.8	171.5	73.5	44.6	22.3	20.0	33.4	24.5	11.1	4.5	4.5
82.5°	191.6	75.7	29.0	17.8	8.9	8.9	4.5	0.0	0.0	0.0	0.0
85°	113.6	31.2	13.4	6.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.0	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)