

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: P944166

Luminaire Tested: **GALN-SB9A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944166
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-SB9A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA 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: 29722 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 255.5
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

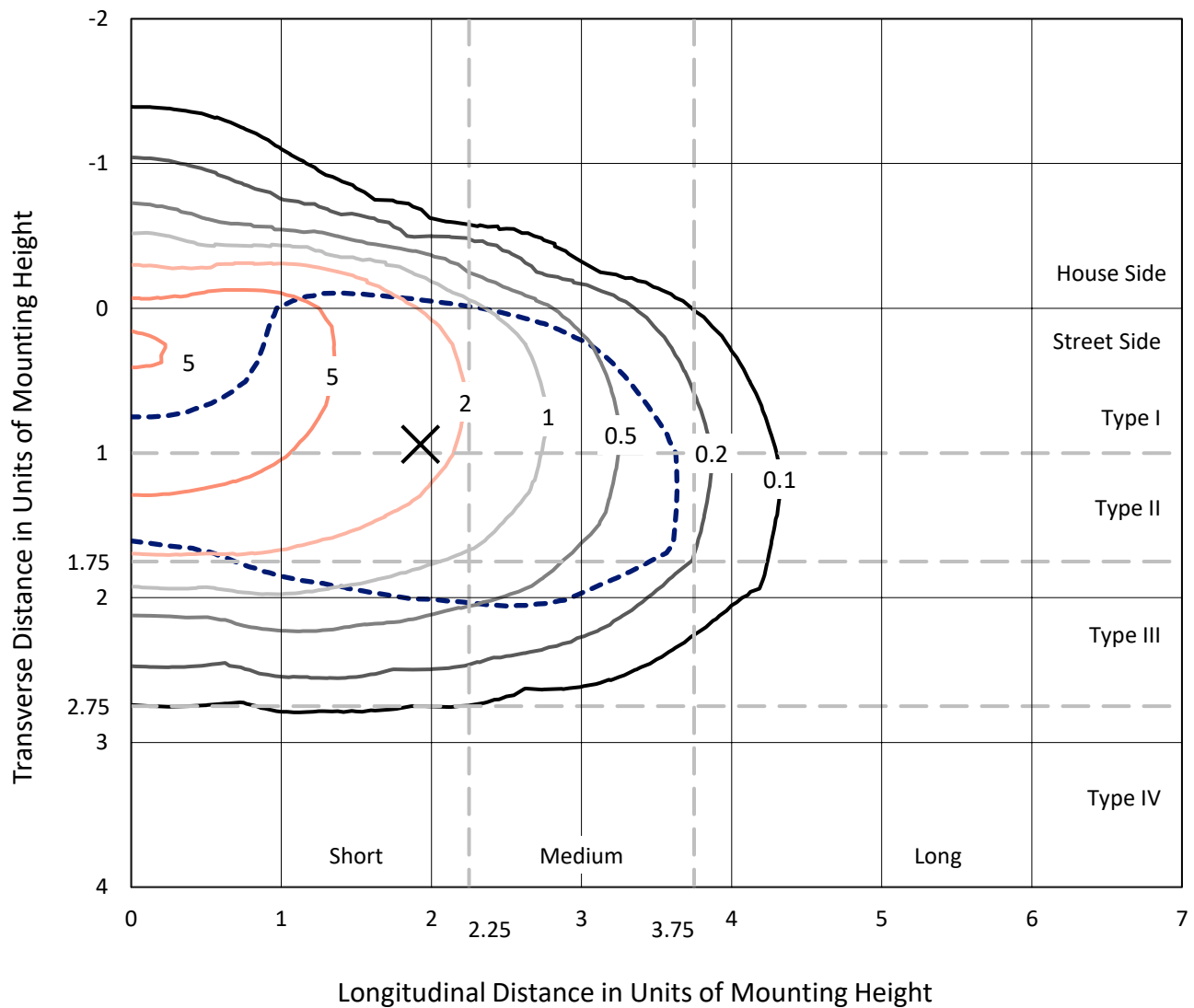


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

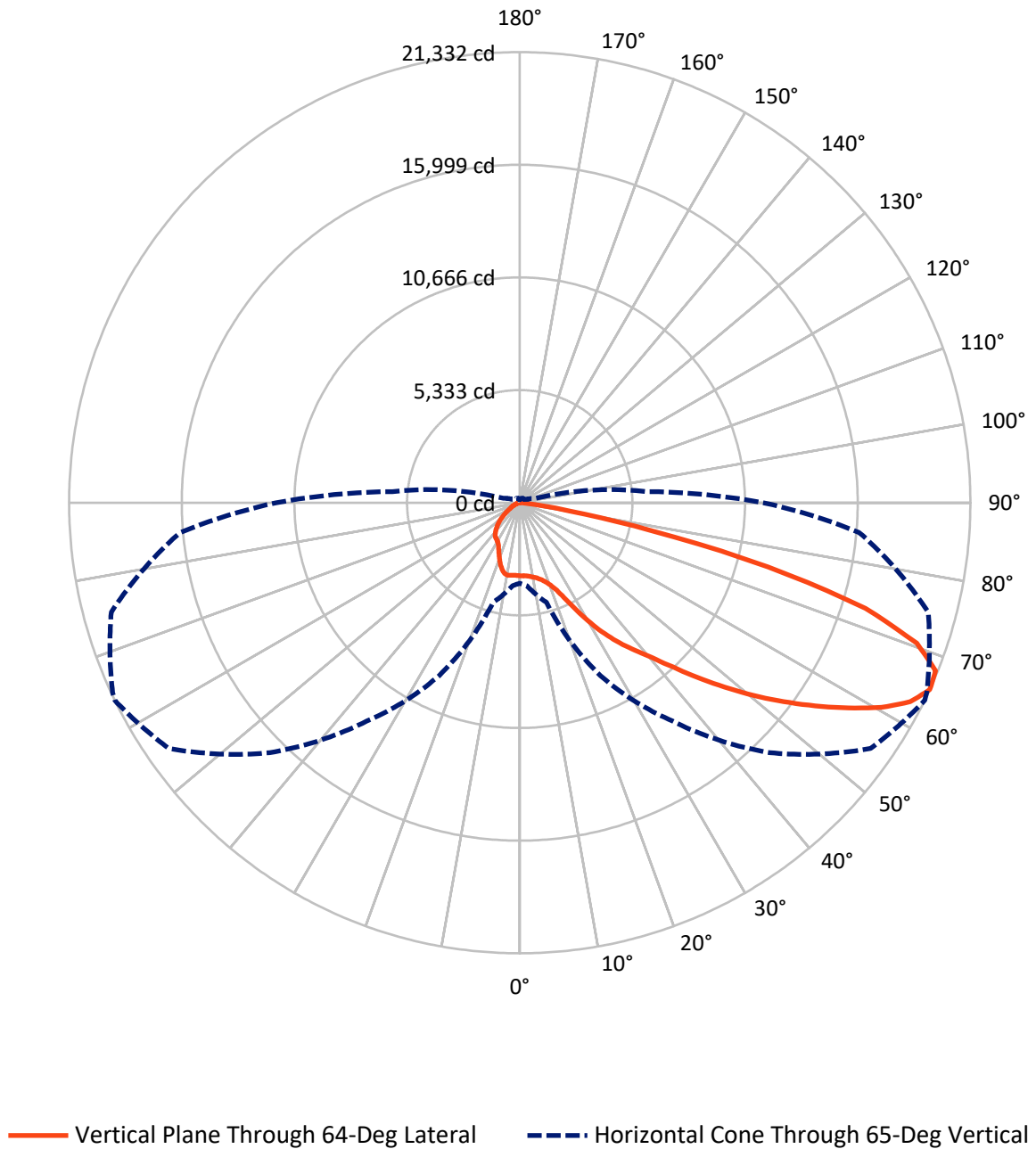


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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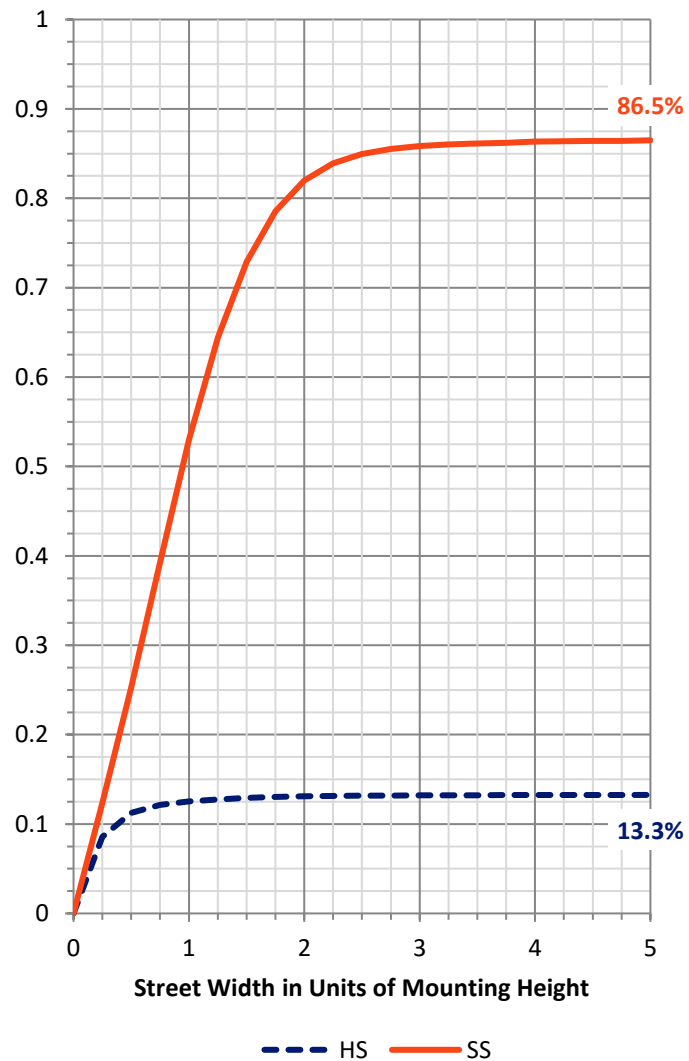
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.7	0.0	3974.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25747.3	0.0	25747.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	29722.0	0.0	29722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	1.1
10°-20°	865.1	2.9
20°-30°	1639.2	5.5
30°-40°	3317.0	11.2
40°-50°	5650.5	19.0
50°-60°	7684.3	25.9
60°-70°	7215.9	24.3
70°-80°	2891.0	9.7
80°-90°	140.1	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°	29722.0	100.0
0°-180°	29722.0	100.0

Coefficient of Utilization



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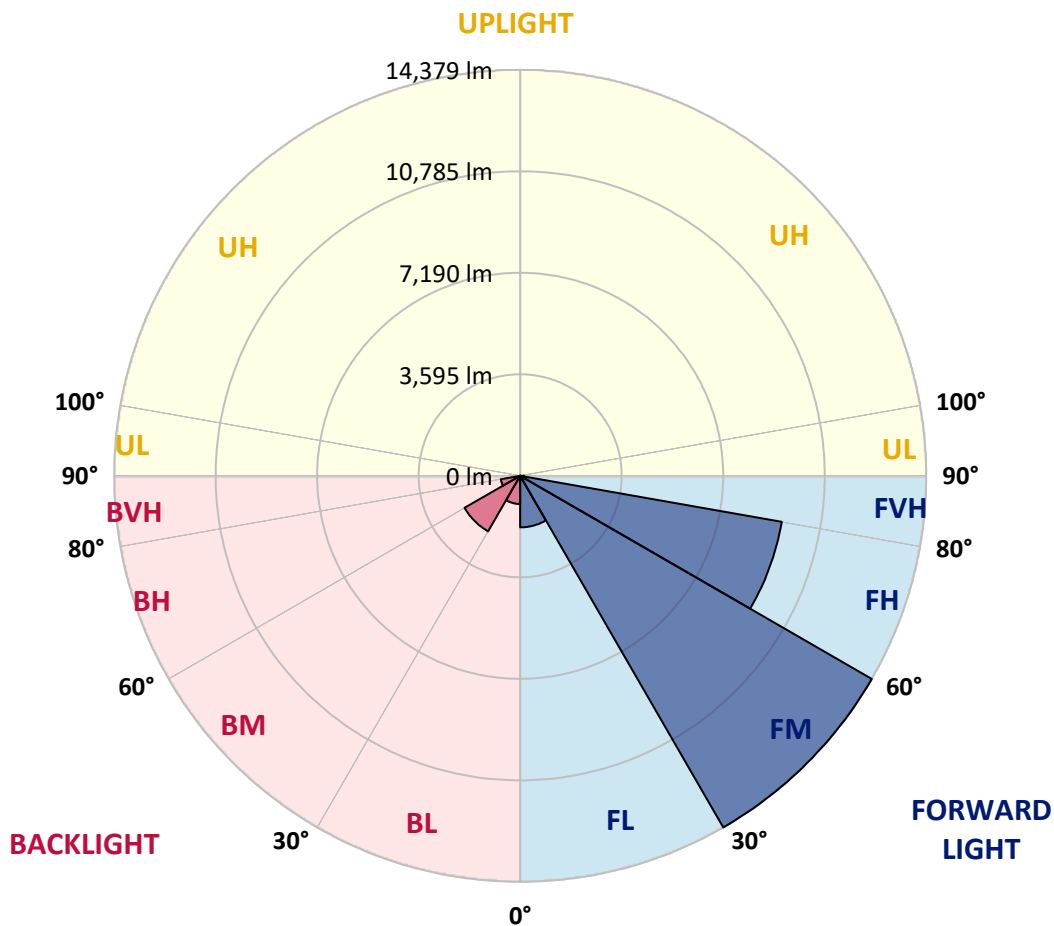
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1825.3	6.1			
FM	(30°-60°)	14379.5	48.4			
FH	(60°-80°)	9409.3	31.7			G4/12000
FVH	(80°-90°)	133.2	0.4			G2/225
BL	(0°-30°)	997.9	3.4	B2/1000		
BM	(30°-60°)	2272.3	7.6	B2/2500		
BH	(60°-80°)	697.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0
2.5°	3445.0	3468.9	3463.0	3457.0	3455.0	3459.0	3461.0	3459.0	3459.0	3459.0	3461.0
5°	3379.3	3399.2	3399.2	3413.1	3433.1	3457.0	3474.9	3478.9	3482.9	3488.9	3486.9
7.5°	3253.7	3269.7	3281.6	3327.5	3377.3	3441.0	3494.8	3522.7	3526.7	3548.6	3556.6
10°	3168.1	3188.0	3207.9	3255.7	3327.5	3423.1	3514.8	3582.5	3592.5	3644.3	3668.2
12.5°	3164.1	3184.0	3209.9	3261.7	3345.4	3447.0	3558.6	3656.2	3674.2	3749.9	3799.7
15°	3205.9	3229.8	3253.7	3317.5	3407.2	3530.7	3650.2	3771.8	3789.7	3897.3	3951.1
17.5°	3291.6	3323.5	3341.4	3405.2	3500.8	3638.3	3795.7	3935.2	3951.1	4076.6	4144.4
20°	3461.0	3498.8	3504.8	3556.6	3650.2	3797.7	3985.0	4158.3	4178.3	4321.7	4397.4
22.5°	3811.6	3865.4	3817.6	3843.5	3927.2	4074.7	4277.9	4497.1	4525.0	4688.3	4756.1
25°	4429.3	4505.0	4381.5	4337.7	4373.5	4526.9	4782.0	5058.9	5090.8	5222.3	5256.2
27.5°	5642.7	5545.1	5357.8	5174.5	5066.9	5154.6	5441.5	5784.2	5824.1	5951.6	5911.7
30°	6975.7	6890.0	6637.0	6230.5	5975.5	5961.5	6226.5	6609.1	6654.9	6776.5	6654.9
32.5°	8310.7	8229.0	7954.0	7453.9	7011.6	6792.4	6975.7	7400.1	7424.0	7501.7	7322.4
35°	9623.7	9540.1	9265.1	8753.0	8209.1	7711.0	7675.1	8153.3	8161.3	8242.9	7976.0
37.5°	10944.8	10875.0	10582.1	10080.0	9544.0	8856.6	8523.9	8866.6	8876.6	8956.3	8679.3
40°	11887.2	11917.1	11715.9	11327.3	10867.1	10115.9	9476.3	9625.7	9566.0	9699.5	9534.1
42.5°	12696.2	12755.9	12580.6	12385.3	12118.3	11456.8	10655.9	10630.0	10534.3	10606.0	10434.7
45°	13395.5	13445.4	13287.9	13242.1	13236.1	12771.9	11945.0	11789.6	11656.1	11642.1	11436.9
47.5°	13652.6	13748.2	13816.0	13969.4	14268.3	14073.0	13278.0	13036.9	12887.5	12777.9	12453.1
50°	13750.2	13851.8	14082.9	14529.3	15236.6	15320.3	14605.0	14334.0	14150.7	13951.4	13473.2
52.5°	13618.7	13800.0	14110.8	14862.0	15888.1	16320.5	15878.2	15641.1	15431.9	15107.1	14397.8
55°	12843.6	13024.9	13660.5	14858.0	16212.9	17021.9	17081.7	16976.0	16740.9	16228.9	15144.9
57.5°	11209.8	11478.8	12485.0	14351.9	16206.9	17625.6	18261.2	18336.9	18073.9	17340.7	15732.7
60°	8946.3	9310.9	10538.3	13230.2	15706.8	17952.4	19295.3	19673.9	19394.9	18436.5	16208.9
62.5°	6242.5	6664.9	7826.5	11472.8	14563.1	17717.3	20050.5	20749.8	20538.6	19416.9	16392.2
65°	3807.7	3943.1	4879.6	9028.0	12618.5	16733.0	20283.6	21331.6	21261.9	20016.6	16121.3
67.5°	2536.4	2650.0	2919.0	6190.7	9795.1	14766.4	19725.7	21230.0	21249.9	19919.0	15129.0
70°	1528.2	1625.9	1801.2	3600.4	6348.1	11688.0	17998.2	19934.9	20050.5	18613.9	13248.1
72.5°	629.6	695.4	854.8	1631.9	3287.6	7418.1	14332.0	17115.5	17384.5	15651.0	10167.7
75°	356.7	390.5	502.1	818.9	1426.6	3457.0	8681.3	12150.2	12546.7	10787.4	6117.0
77.5°	237.1	253.0	324.8	530.0	803.0	1179.6	3710.0	6330.2	7087.3	5891.8	2648.0
80°	159.4	173.3	223.2	354.7	522.0	506.1	1181.5	2345.2	2885.1	2024.4	645.6
82.5°	107.6	109.6	159.4	233.1	330.8	245.1	348.7	729.3	916.5	585.8	245.1
85°	61.8	59.8	117.6	135.5	147.4	101.6	105.6	219.2	286.9	247.1	139.5
87.5°	8.0	12.0	45.8	35.9	19.9	21.9	21.9	37.9	55.8	59.8	29.9
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°	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0	3457.0
2.5°	3461.0	3459.0	3453.0	3447.0	3433.1	3425.1	3429.1	3425.1	3423.1	3425.1	3433.1
5°	3486.9	3480.9	3464.9	3445.0	3417.1	3383.3	3361.3	3329.5	3299.6	3281.6	3285.6
7.5°	3556.6	3550.6	3528.7	3472.9	3383.3	3241.8	3112.3	2998.7	2913.0	2863.2	2865.2
10°	3668.2	3658.2	3624.3	3500.8	3265.7	2956.9	2699.8	2486.6	2347.2	2281.4	2275.4
12.5°	3799.7	3787.7	3728.0	3474.9	3042.5	2560.4	2205.7	1968.6	1839.1	1781.3	1775.3
15°	3955.1	3939.2	3821.6	3351.4	2717.8	2122.0	1797.2	1619.9	1536.2	1484.4	1486.4
17.5°	4148.4	4120.5	3891.3	3166.1	2365.1	1787.3	1546.2	1412.7	1339.0	1289.1	1285.2
20°	4399.4	4353.6	3947.1	2944.9	2040.3	1576.1	1376.8	1265.2	1209.4	1165.6	1157.6
22.5°	4750.1	4684.4	4014.9	2705.8	1811.2	1430.6	1251.3	1169.6	1123.8	1074.0	1066.0
25°	5184.5	5106.8	4098.6	2484.6	1653.8	1305.1	1159.6	1091.9	1038.1	980.3	974.3
27.5°	5792.2	5652.7	4198.2	2303.3	1518.3	1197.5	1075.9	1000.2	938.5	890.6	880.7
30°	6469.6	6240.5	4285.9	2193.7	1394.7	1097.9	966.4	890.6	832.9	799.0	793.0
32.5°	7111.2	6800.4	4343.6	2145.9	1283.2	984.3	846.8	765.1	721.3	711.3	717.3
35°	7716.9	7306.5	4337.7	2100.1	1183.5	870.7	729.3	645.6	611.7	617.7	617.7
37.5°	8414.3	7846.4	4295.8	2028.4	1101.8	767.1	627.6	553.9	524.0	526.0	534.0
40°	9225.2	8470.1	4269.9	1892.9	1012.2	671.5	544.0	484.2	462.3	454.3	452.3
42.5°	10090.0	9073.8	4273.9	1739.4	900.6	585.8	486.2	436.4	416.4	410.5	408.5
45°	10958.7	9649.6	4279.9	1580.0	783.1	520.0	444.3	402.5	390.5	382.6	382.6
47.5°	11775.6	10139.8	4168.3	1408.7	667.5	470.2	410.5	382.6	372.6	362.6	362.6
50°	12536.8	10466.6	3899.3	1209.4	575.8	430.4	384.6	364.6	354.7	344.7	344.7
52.5°	13128.5	10518.4	3455.0	1004.2	512.1	400.5	368.6	350.7	338.7	328.8	326.8
55°	13391.6	10193.6	2823.4	812.9	462.3	374.6	352.7	334.7	320.8	310.8	308.8
57.5°	13323.8	9510.2	2201.7	653.5	414.4	348.7	332.7	320.8	304.9	288.9	286.9
60°	12991.1	8595.6	1659.7	544.0	370.6	320.8	310.8	300.9	278.9	255.0	251.1
62.5°	12415.2	7446.0	1183.5	450.3	322.8	288.9	284.9	277.0	245.1	201.2	197.3
65°	11534.5	6049.2	797.0	374.6	277.0	253.0	255.0	241.1	199.2	149.4	145.5
67.5°	10247.4	4423.3	510.1	306.8	231.1	211.2	213.2	205.2	169.4	127.5	121.5
70°	8607.6	2929.0	332.7	233.1	185.3	163.4	175.3	177.3	143.5	103.6	99.6
72.5°	6310.2	1729.5	233.1	173.3	135.5	113.6	143.5	147.4	115.6	77.7	73.7
75°	3596.5	820.9	175.3	125.5	83.7	79.7	111.6	111.6	79.7	51.8	47.8
77.5°	1510.3	342.7	123.5	81.7	47.8	45.8	75.7	69.7	39.8	23.9	23.9
80°	436.4	153.4	65.8	39.8	19.9	17.9	29.9	21.9	10.0	4.0	4.0
82.5°	171.4	67.7	25.9	15.9	8.0	8.0	4.0	0.0	0.0	0.0	0.0
85°	101.6	27.9	12.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.9	6.0	4.0	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)