

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: P941106

Luminaire Tested: **GALN-SB4C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941106
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-SB4C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 21834 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 200.7
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

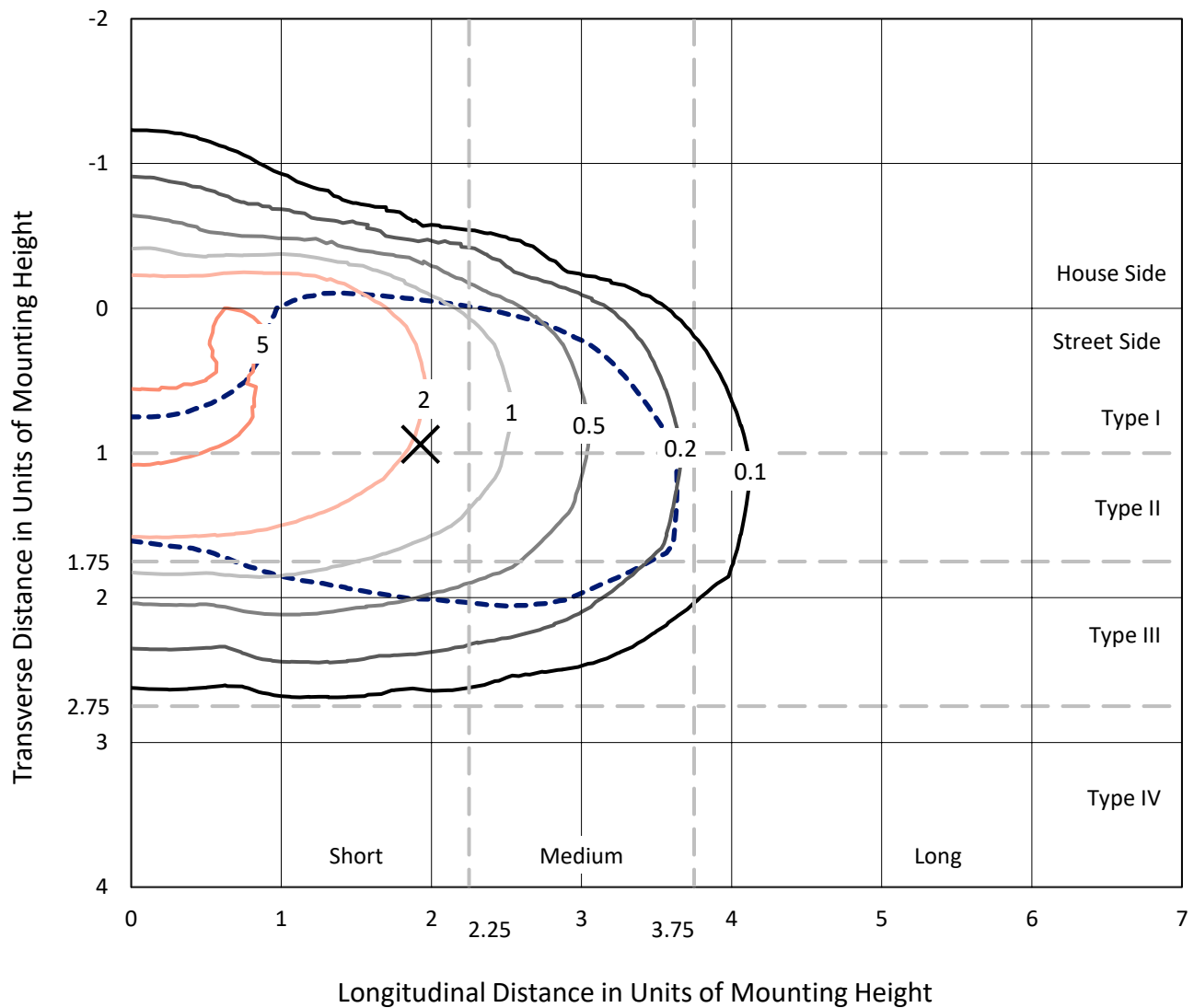


REPORT NUMBER: P941106

CATALOG NUMBER: GALN-SB4C-727-U-T3-HSS

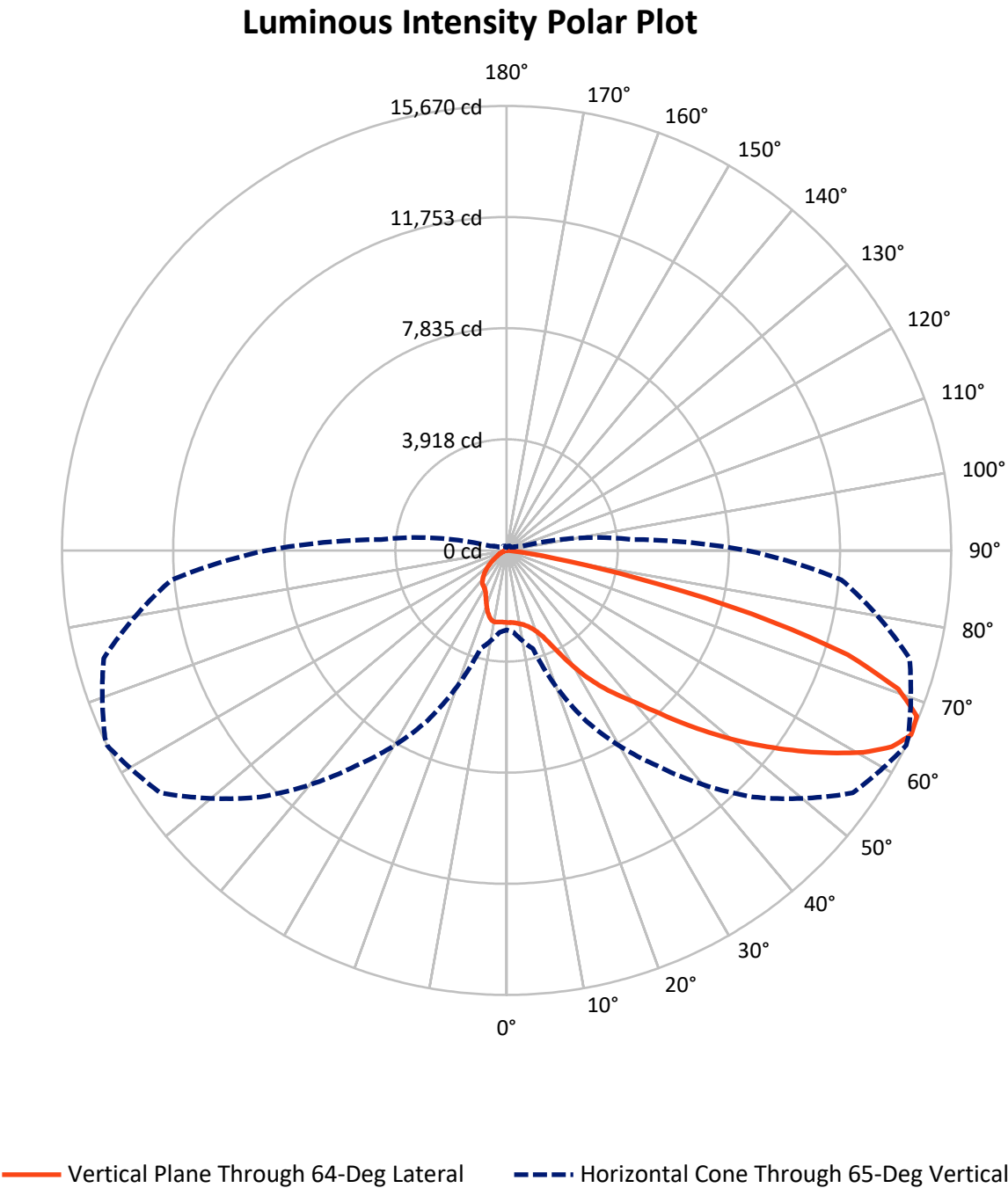
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P941106
CATALOG NUMBER: GALN-SB4C-727-U-T3-HSS



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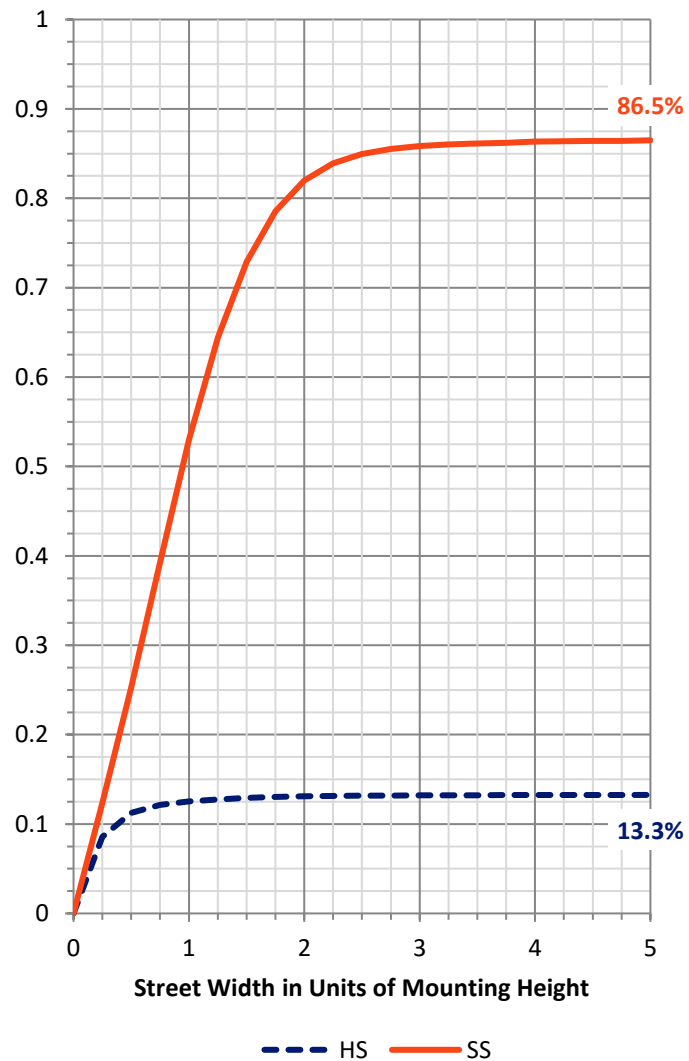
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2919.9	0.0	2919.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	18914.1	0.0	18914.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	21834.0	0.0	21834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.1
10°-20°	635.5	2.9
20°-30°	1204.2	5.5
30°-40°	2436.7	11.2
40°-50°	4150.9	19.0
50°-60°	5644.9	25.9
60°-70°	5300.9	24.3
70°-80°	2123.8	9.7
80°-90°	102.9	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°	21834.0	100.0
0°-180°	21834.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941106

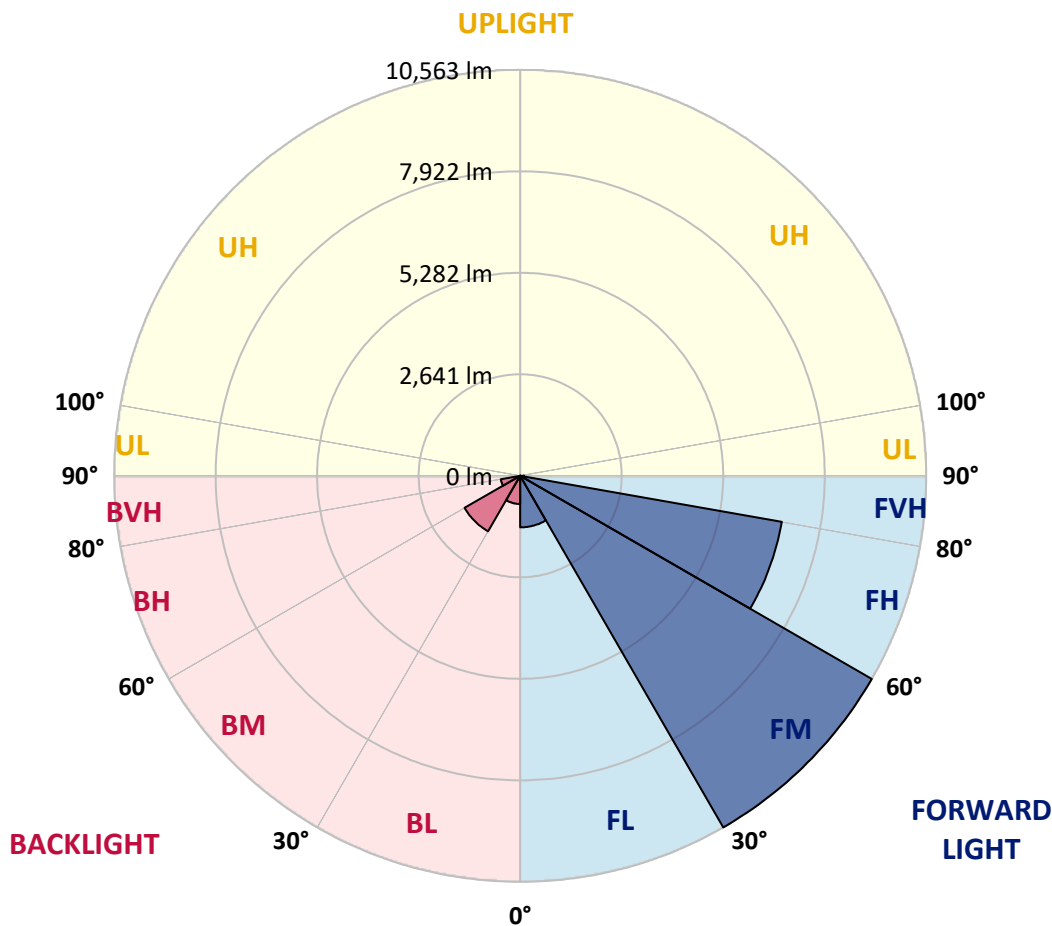
CATALOG NUMBER: GALN-SB4C-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.9	6.1			
FM	(30°-60°)	10563.3	48.4			
FH	(60°-80°)	6912.1	31.7			G3/7500
FVH	(80°-90°)	97.9	0.4			G1/100
BL	(0°-30°)	733.1	3.4	B2/1000		
BM	(30°-60°)	1669.3	7.6	B2/2500		
BH	(60°-80°)	512.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.0	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-G3

Type III Short



REPORT NUMBER: P941106

CATALOG NUMBER: GALN-SB4C-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2.5°	2530.7	2548.3	2543.9	2539.5	2538.1	2541.0	2542.4	2541.0	2541.0	2541.0	2542.4
5°	2482.4	2497.1	2497.1	2507.3	2522.0	2539.5	2552.7	2555.6	2558.5	2562.9	2561.5
7.5°	2390.2	2401.9	2410.7	2444.4	2481.0	2527.8	2567.3	2587.8	2590.8	2606.9	2612.7
10°	2327.3	2341.9	2356.6	2391.7	2444.4	2514.6	2582.0	2631.7	2639.1	2677.1	2694.7
12.5°	2324.4	2339.0	2358.0	2396.1	2457.6	2532.2	2614.2	2685.9	2699.1	2754.7	2791.3
15°	2355.1	2372.7	2390.2	2437.1	2502.9	2593.7	2681.5	2770.8	2784.0	2863.0	2902.5
17.5°	2418.0	2441.5	2454.6	2501.5	2571.7	2672.7	2788.4	2890.8	2902.5	2994.7	3044.5
20°	2542.4	2570.3	2574.6	2612.7	2681.5	2789.8	2927.4	3054.7	3069.4	3174.8	3230.4
22.5°	2800.1	2839.6	2804.5	2823.5	2885.0	2993.3	3142.6	3303.6	3324.1	3444.1	3493.9
25°	3253.8	3309.4	3218.7	3186.5	3212.8	3325.5	3512.9	3716.3	3739.8	3836.4	3861.2
27.5°	4145.2	4073.5	3935.9	3801.2	3722.2	3786.6	3997.4	4249.1	4278.4	4372.1	4342.8
30°	5124.4	5061.5	4875.6	4577.0	4389.6	4379.4	4574.1	4855.1	4888.8	4978.0	4888.8
32.5°	6105.1	6045.1	5843.1	5475.7	5150.8	4989.8	5124.4	5436.2	5453.7	5510.8	5379.1
35°	7069.7	7008.2	6806.2	6430.0	6030.4	5664.5	5638.2	5989.5	5995.3	6055.3	5859.2
37.5°	8040.1	7988.9	7773.7	7404.9	7011.1	6506.2	6261.7	6513.5	6520.8	6579.3	6375.9
40°	8732.4	8754.4	8606.6	8321.1	7983.0	7431.2	6961.4	7071.1	7027.2	7125.3	7003.8
42.5°	9326.7	9370.6	9241.8	9098.4	8902.2	8416.3	7827.9	7808.8	7738.6	7791.3	7665.4
45°	9840.5	9877.1	9761.4	9727.8	9723.4	9382.3	8774.9	8660.7	8562.6	8552.4	8401.6
47.5°	10029.3	10099.5	10149.3	10262.0	10481.6	10338.1	9754.1	9577.0	9467.2	9386.7	9148.1
50°	10101.0	10175.6	10345.4	10673.3	11192.9	11254.4	10728.9	10529.9	10395.2	10248.8	9897.5
52.5°	10004.4	10137.6	10365.9	10917.7	11671.6	11989.2	11664.2	11490.1	11336.4	11097.8	10576.7
55°	9435.0	9568.2	10035.1	10914.8	11910.1	12504.4	12548.3	12470.7	12298.0	11921.8	11125.6
57.5°	8234.8	8432.4	9171.5	10543.0	11905.7	12947.9	13414.8	13470.4	13277.2	12738.6	11557.4
60°	6572.0	6839.9	7741.5	9719.0	11538.4	13187.9	14174.5	14452.6	14247.7	13543.6	11907.2
62.5°	4585.8	4896.1	5749.4	8428.0	10698.2	13015.2	14729.2	15243.0	15087.8	14263.8	12041.9
65°	2797.1	2896.7	3584.6	6632.0	9269.6	12292.2	14900.5	15670.4	15619.2	14704.3	11842.8
67.5°	1863.3	1946.7	2144.3	4547.7	7195.6	10847.5	14490.6	15595.7	15610.4	14632.6	11113.9
70°	1122.7	1194.4	1323.2	2644.9	4663.4	8586.1	13221.6	14644.3	14729.2	13673.9	9732.1
72.5°	462.5	510.8	627.9	1198.8	2415.1	5449.4	10528.4	12573.2	12770.8	11497.4	7469.3
75°	262.0	286.9	368.9	601.6	1048.0	2539.5	6377.3	8925.6	9216.9	7924.5	4493.6
77.5°	174.2	185.9	238.6	389.3	589.9	866.5	2725.4	4650.2	5206.4	4328.2	1945.3
80°	117.1	127.3	163.9	260.5	383.5	371.8	868.0	1722.8	2119.4	1487.1	474.2
82.5°	79.0	80.5	117.1	171.3	243.0	180.0	256.1	535.7	673.3	430.3	180.0
85°	45.4	43.9	86.4	99.5	108.3	74.6	77.6	161.0	210.8	181.5	102.5
87.5°	5.9	8.8	33.7	26.3	14.6	16.1	16.1	27.8	41.0	43.9	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941106

CATALOG NUMBER: GALN-SB4C-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2.5°	2542.4	2541.0	2536.6	2532.2	2522.0	2516.1	2519.0	2516.1	2514.6	2516.1	2522.0
5°	2561.5	2557.1	2545.4	2530.7	2510.2	2485.4	2469.3	2445.8	2423.9	2410.7	2413.6
7.5°	2612.7	2608.3	2592.2	2551.2	2485.4	2381.4	2286.3	2202.9	2139.9	2103.3	2104.8
10°	2694.7	2687.4	2662.5	2571.7	2399.0	2172.1	1983.3	1826.7	1724.2	1675.9	1671.5
12.5°	2791.3	2782.5	2738.6	2552.7	2235.1	1880.9	1620.3	1446.1	1351.0	1308.5	1304.2
15°	2905.4	2893.7	2807.4	2461.9	1996.5	1558.8	1320.3	1190.0	1128.5	1090.5	1091.9
17.5°	3047.4	3026.9	2858.6	2325.8	1737.4	1312.9	1135.8	1037.8	983.6	947.0	944.1
20°	3231.9	3198.2	2899.6	2163.3	1498.8	1157.8	1011.4	929.5	888.5	856.3	850.4
22.5°	3489.5	3441.2	2949.4	1987.7	1330.5	1050.9	919.2	859.2	825.5	788.9	783.1
25°	3808.5	3751.5	3010.8	1825.2	1214.9	958.7	851.9	802.1	762.6	720.1	715.7
27.5°	4255.0	4152.5	3084.0	1692.0	1115.3	879.7	790.4	734.8	689.4	654.3	647.0
30°	4752.6	4584.3	3148.4	1611.5	1024.6	806.5	709.9	654.3	611.8	586.9	582.6
32.5°	5223.9	4995.6	3190.9	1576.4	942.6	723.1	622.1	562.1	529.9	522.5	526.9
35°	5668.9	5367.4	3186.5	1542.7	869.4	639.6	535.7	474.2	449.4	453.7	453.7
37.5°	6181.2	5764.1	3155.7	1490.0	809.4	563.5	461.1	406.9	385.0	386.4	392.3
40°	6776.9	6222.2	3136.7	1390.5	743.6	493.3	399.6	355.7	339.6	333.7	332.3
42.5°	7412.2	6665.7	3139.6	1277.8	661.6	430.3	357.1	320.6	305.9	301.5	300.1
45°	8050.4	7088.7	3144.0	1160.7	575.2	382.0	326.4	295.7	286.9	281.0	281.0
47.5°	8650.5	7448.8	3062.1	1034.8	490.3	345.4	301.5	281.0	273.7	266.4	266.4
50°	9209.6	7688.8	2864.5	888.5	423.0	316.2	282.5	267.9	260.5	253.2	253.2
52.5°	9644.3	7726.9	2538.1	737.7	376.2	294.2	270.8	257.6	248.8	241.5	240.0
55°	9837.5	7488.3	2074.1	597.2	339.6	275.2	259.1	245.9	235.7	228.3	226.9
57.5°	9787.8	6986.2	1617.4	480.1	304.4	256.1	244.4	235.7	223.9	212.2	210.8
60°	9543.3	6314.4	1219.3	399.6	272.2	235.7	228.3	221.0	204.9	187.4	184.4
62.5°	9120.3	5469.8	869.4	330.8	237.1	212.2	209.3	203.5	180.0	147.8	144.9
65°	8473.4	4443.8	585.5	275.2	203.5	185.9	187.4	177.1	146.4	109.8	106.9
67.5°	7527.8	3249.4	374.7	225.4	169.8	155.2	156.6	150.8	124.4	93.7	89.3
70°	6323.2	2151.6	244.4	171.3	136.1	120.0	128.8	130.3	105.4	76.1	73.2
72.5°	4635.5	1270.5	171.3	127.3	99.5	83.4	105.4	108.3	84.9	57.1	54.2
75°	2642.0	603.0	128.8	92.2	61.5	58.5	82.0	82.0	58.5	38.1	35.1
77.5°	1109.5	251.8	90.7	60.0	35.1	33.7	55.6	51.2	29.3	17.6	17.6
80°	320.6	112.7	48.3	29.3	14.6	13.2	22.0	16.1	7.3	2.9	2.9
82.5°	125.9	49.8	19.0	11.7	5.9	5.9	2.9	0.0	0.0	0.0	0.0
85°	74.6	20.5	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.0	4.4	2.9	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)