

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: P948438

Luminaire Tested: **GALN-SB3C-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17352 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

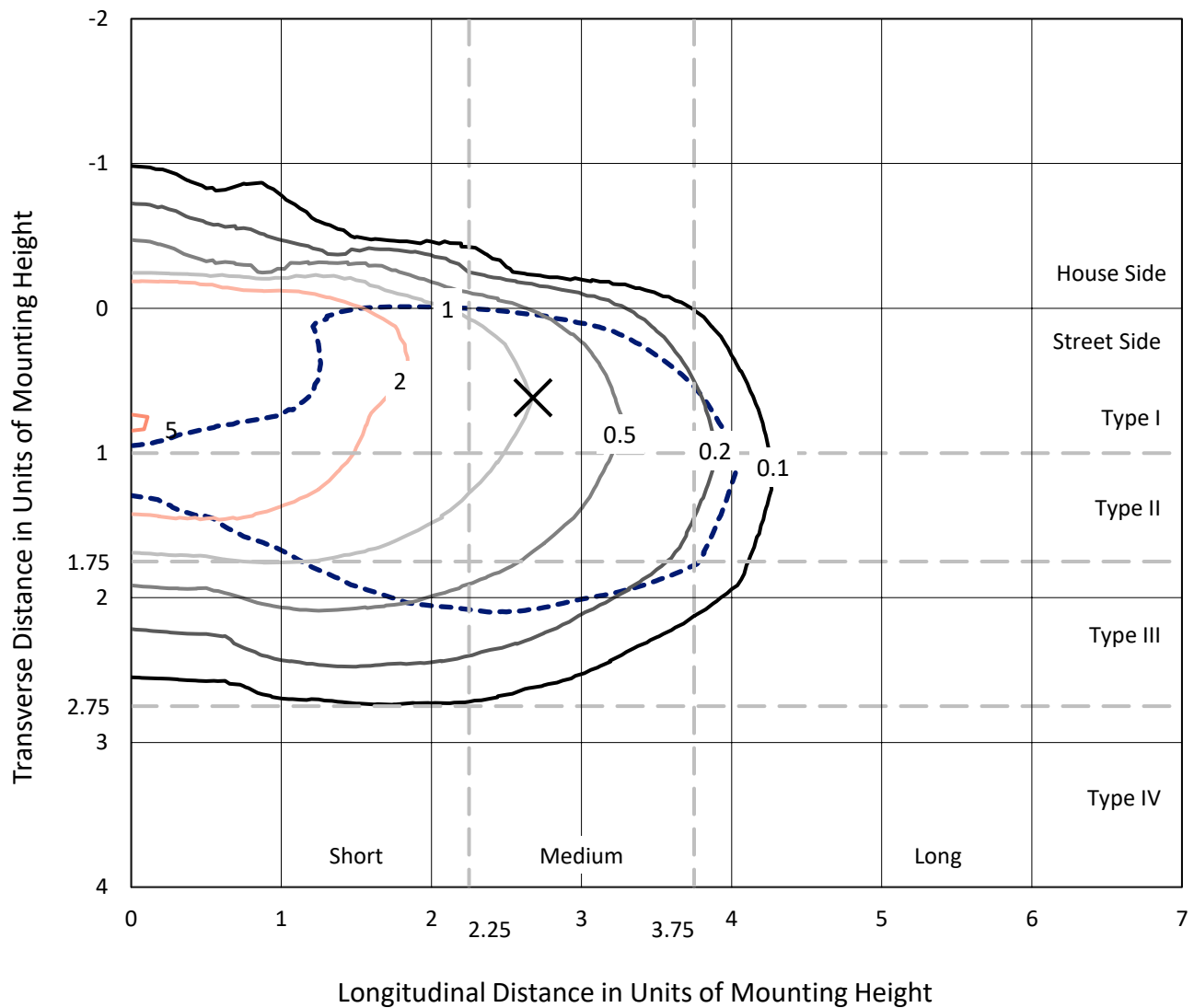
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

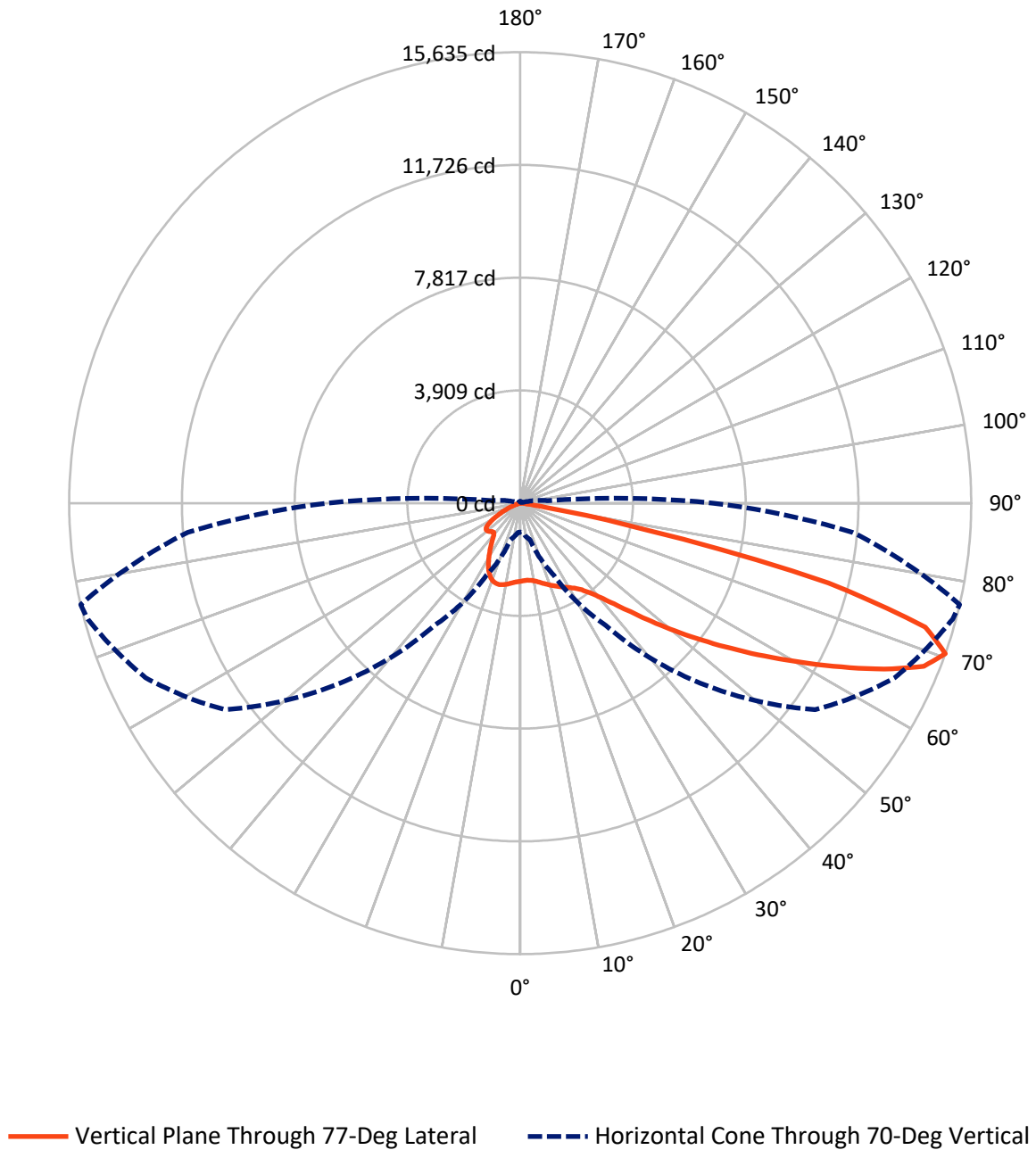
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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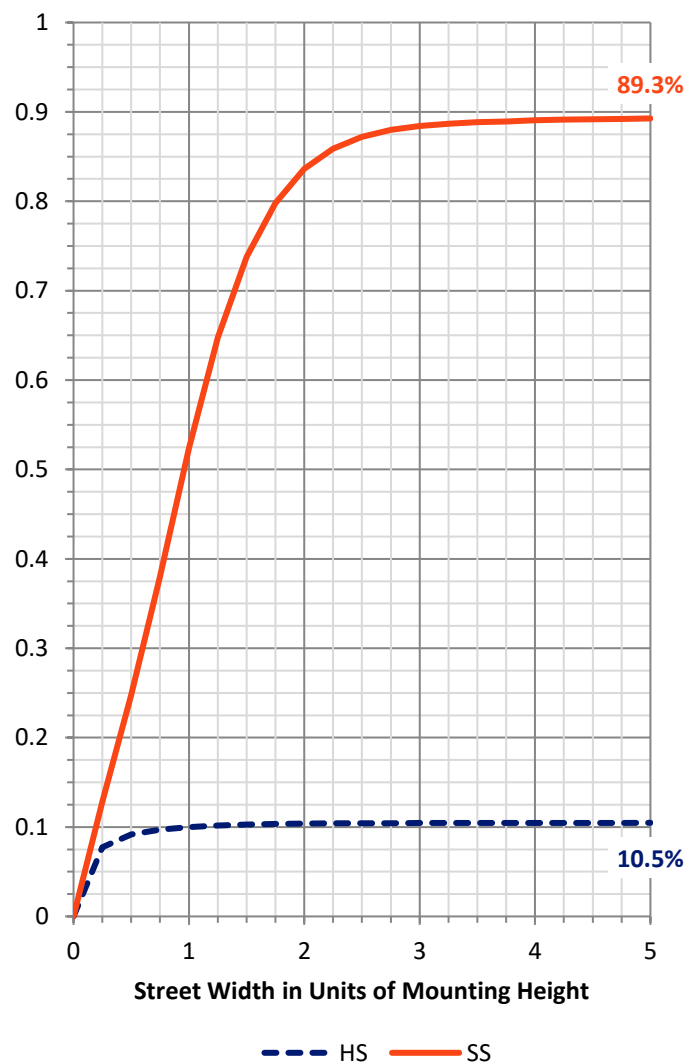
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1829.2	0.0	1829.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15522.9	0.0	15522.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	17352.0	0.0	17352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.3
10°-20°	553.7	3.2
20°-30°	856.5	4.9
30°-40°	1554.2	9.0
40°-50°	2933.6	16.9
50°-60°	4238.9	24.4
60°-70°	4512.2	26.0
70°-80°	2391.1	13.8
80°-90°	78.5	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°	17352.0	100.0
0°-180°	17352.0	100.0

Coefficient of Utilization



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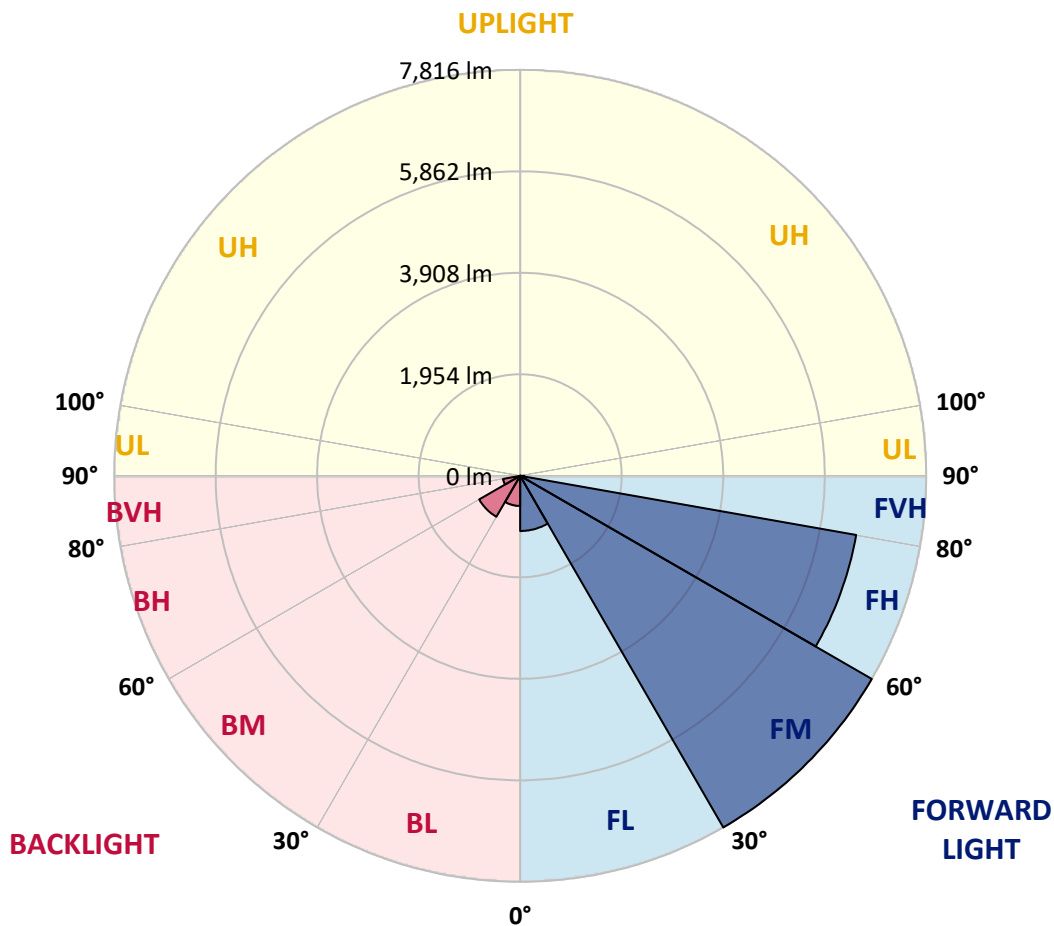
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.4	6.1			
FM	(30°-60°)	7816.1	45.0			
FH	(60°-80°)	6568.0	37.9			G3/7500
FVH	(80°-90°)	76.4	0.4			G1/100
BL	(0°-30°)	581.2	3.3	B2/1000		
BM	(30°-60°)	910.6	5.2	B1/1000		
BH	(60°-80°)	335.3	1.9	B1/500		G1/500
BVH	(80°-90°)	2.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6
2.5°	2541.1	2564.1	2560.9	2576.2	2581.7	2603.6	2625.5	2655.1	2688.0	2686.9	2708.8
5°	2397.6	2420.6	2426.1	2446.9	2473.2	2507.2	2552.1	2611.3	2672.6	2682.5	2726.3
7.5°	2227.7	2251.8	2266.1	2307.7	2355.9	2426.1	2499.5	2586.1	2688.0	2702.2	2786.6
10°	2057.9	2079.8	2098.4	2157.6	2234.3	2338.4	2457.9	2582.8	2719.7	2740.6	2860.0
12.5°	1952.7	1973.5	1994.3	2045.8	2141.2	2268.3	2430.5	2598.1	2772.3	2801.9	2959.7
15°	1915.4	1934.1	1950.5	1996.5	2085.3	2229.9	2425.0	2629.9	2839.2	2878.6	3080.3
17.5°	1920.9	1930.8	1941.7	1976.8	2063.4	2212.4	2434.8	2684.7	2918.1	2953.2	3200.8
20°	1952.7	1958.2	1959.3	1983.4	2060.1	2210.2	2454.6	2737.3	2992.6	3039.7	3320.2
22.5°	1993.2	1995.4	1993.2	2009.7	2080.9	2226.6	2480.9	2800.8	3075.9	3119.7	3440.8
25°	2182.8	2141.2	2088.6	2056.8	2116.0	2258.4	2520.3	2886.3	3166.8	3209.6	3558.0
27.5°	2771.3	2651.8	2463.3	2251.8	2188.3	2304.4	2575.1	2972.9	3258.9	3297.2	3684.0
30°	3726.8	3570.1	3250.1	2773.4	2420.6	2400.9	2646.3	3059.4	3356.4	3398.0	3818.8
32.5°	4684.5	4646.1	4276.9	3617.2	2943.3	2615.6	2764.7	3176.7	3485.7	3518.6	4000.7
35°	5653.2	5575.4	5272.9	4620.9	3748.7	3052.9	2961.9	3330.1	3655.6	3692.8	4265.9
37.5°	6395.0	6347.9	6160.5	5623.6	4704.2	3727.9	3299.4	3567.9	3902.1	3943.7	4605.6
40°	7050.3	7028.4	6964.8	6610.9	5772.6	4611.1	3824.3	3936.1	4244.0	4293.3	5022.0
42.5°	7565.3	7616.8	7653.0	7554.4	6873.9	5619.2	4530.0	4453.3	4720.7	4771.1	5552.4
45°	8092.4	8109.9	8255.7	8398.1	7967.5	6673.4	5325.5	5059.3	5313.5	5375.9	6187.9
47.5°	8431.0	8501.1	8757.5	9008.5	8886.8	7718.7	6180.2	5774.8	6000.5	6117.8	6900.2
50°	8456.2	8588.8	8941.6	9378.9	9556.4	8713.7	7109.5	6590.1	6830.1	6959.4	7660.7
52.5°	8036.5	8242.5	8789.3	9429.3	9918.0	9556.4	8070.5	7405.3	7713.3	7882.0	8449.6
55°	6161.6	6431.2	8216.2	9155.3	9932.2	10195.2	9006.3	8254.6	8697.3	8887.9	9302.2
57.5°	5368.3	5504.1	6459.7	8679.7	9668.1	10452.7	9852.2	9063.3	9767.9	10004.6	10107.6
60°	4466.4	4645.0	5417.6	7901.7	9309.8	10477.9	10599.6	10106.5	10928.3	11194.6	10846.1
62.5°	3035.3	3229.3	3997.4	6564.9	8820.0	10465.9	11212.1	11180.3	12218.0	12504.0	11471.8
65°	1880.4	2002.0	2508.3	5360.6	8135.1	10479.0	11853.1	12484.3	13579.0	13869.4	11956.2
67.5°	1485.9	1541.8	1805.9	4115.8	6955.0	10183.2	12493.1	13710.5	14860.0	15090.1	12104.1
70°	998.3	1032.2	1313.9	2759.2	5174.3	8817.8	12481.0	14326.3	15519.7	15634.7	11565.0
72.5°	526.0	552.3	768.1	1277.7	3125.2	6267.9	10520.7	13590.0	14863.3	14690.1	9885.1
75°	263.0	306.8	517.2	648.7	1334.7	3495.6	6533.1	10714.6	11698.6	11028.0	6342.4
77.5°	199.4	241.1	427.4	427.4	464.6	1176.9	2766.9	5843.8	5390.2	4488.4	1861.7
80°	127.1	164.4	373.7	323.3	194.0	299.2	721.0	1637.1	1145.1	871.2	338.6
82.5°	74.5	107.4	311.2	213.7	108.5	110.7	203.8	348.5	297.0	231.2	104.1
85°	29.6	70.1	213.7	84.4	42.7	27.4	61.4	74.5	61.4	46.0	26.3
87.5°	0.0	16.4	37.3	0.0	3.3	2.2	4.4	5.5	5.5	4.4	8.8
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°	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6	2706.6
2.5°	2718.7	2720.8	2727.4	2728.5	2713.2	2693.4	2685.8	2682.5	2669.3	2668.2	2670.4
5°	2751.5	2761.4	2751.5	2723.0	2655.1	2559.8	2487.4	2428.3	2374.6	2358.1	2348.3
7.5°	2817.3	2827.1	2797.5	2685.8	2514.8	2325.3	2154.3	2033.8	1925.3	1884.8	1868.3
10°	2911.5	2924.7	2831.5	2605.8	2303.3	1998.7	1709.4	1505.6	1346.7	1282.1	1254.7
12.5°	3029.9	3035.3	2850.1	2484.2	2028.3	1593.3	1183.5	965.4	824.0	771.4	755.0
15°	3160.3	3152.6	2852.3	2318.7	1653.5	1126.5	772.5	634.5	577.5	559.9	559.9
17.5°	3297.2	3265.5	2808.5	2079.8	1242.6	770.3	573.1	540.2	530.4	526.0	524.9
20°	3432.0	3360.8	2728.5	1767.5	892.0	575.3	520.5	510.6	505.2	503.0	500.8
22.5°	3554.7	3433.1	2591.5	1404.8	647.6	508.4	492.0	483.2	473.4	469.0	467.9
25°	3674.2	3474.7	2398.7	1066.2	518.3	475.6	462.4	446.0	432.8	427.4	425.2
27.5°	3790.3	3501.0	2157.6	789.0	462.4	444.9	420.8	397.8	387.9	385.7	383.5
30°	3914.2	3509.8	1883.7	588.4	428.5	406.5	371.5	345.2	339.7	340.8	340.8
32.5°	4065.4	3523.0	1607.5	482.1	400.0	360.5	318.9	291.5	287.1	291.5	290.4
35°	4246.2	3549.3	1341.2	443.8	374.8	313.4	268.5	245.5	241.1	244.4	243.3
37.5°	4491.6	3592.0	1092.5	436.1	353.9	273.9	225.7	207.1	207.1	208.2	207.1
40°	4818.2	3706.0	870.1	430.6	343.0	244.4	190.7	183.0	186.3	188.5	188.5
42.5°	5216.0	3948.1	719.9	424.1	330.9	231.2	173.1	169.8	175.3	177.5	177.5
45°	5661.9	4254.9	667.3	413.1	320.0	240.0	165.5	161.1	167.7	168.8	169.8
47.5°	6123.3	4555.2	660.8	401.1	309.0	253.1	163.3	153.4	161.1	162.2	163.3
50°	6590.1	4751.3	667.3	382.4	291.5	253.1	164.4	145.7	152.3	155.6	156.7
52.5°	7060.2	4841.2	663.0	341.9	260.8	237.8	164.4	139.2	145.7	147.9	147.9
55°	7516.0	4823.7	596.1	281.6	221.3	210.4	160.0	133.7	138.1	139.2	139.2
57.5°	7876.5	4579.3	472.3	219.2	179.7	175.3	145.7	127.1	130.4	129.3	129.3
60°	8065.0	4042.4	337.5	168.8	141.4	138.1	128.2	118.3	120.5	115.1	114.0
62.5°	8067.2	3332.3	225.7	133.7	112.9	109.6	109.6	106.3	104.1	93.1	89.9
65°	7895.2	2544.4	150.1	106.3	91.0	85.5	92.0	91.0	83.3	67.9	65.7
67.5°	7505.1	1667.8	114.0	83.3	70.1	66.8	73.4	76.7	71.2	57.0	55.9
70°	6702.9	970.9	94.2	64.7	52.6	49.3	59.2	65.7	59.2	46.0	43.8
72.5°	5567.7	523.8	76.7	48.2	36.2	32.9	47.1	53.7	47.1	34.0	32.9
75°	3612.8	280.5	59.2	31.8	18.6	20.8	35.1	39.4	32.9	21.9	19.7
77.5°	1213.0	123.8	37.3	15.3	8.8	8.8	20.8	24.1	15.3	7.7	6.6
80°	270.7	51.5	15.3	6.6	3.3	3.3	4.4	4.4	2.2	0.0	0.0
82.5°	88.8	20.8	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.0	7.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	1.1	0.0	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)