

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: P458944

Luminaire Tested: **GALN-SA4C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18656 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

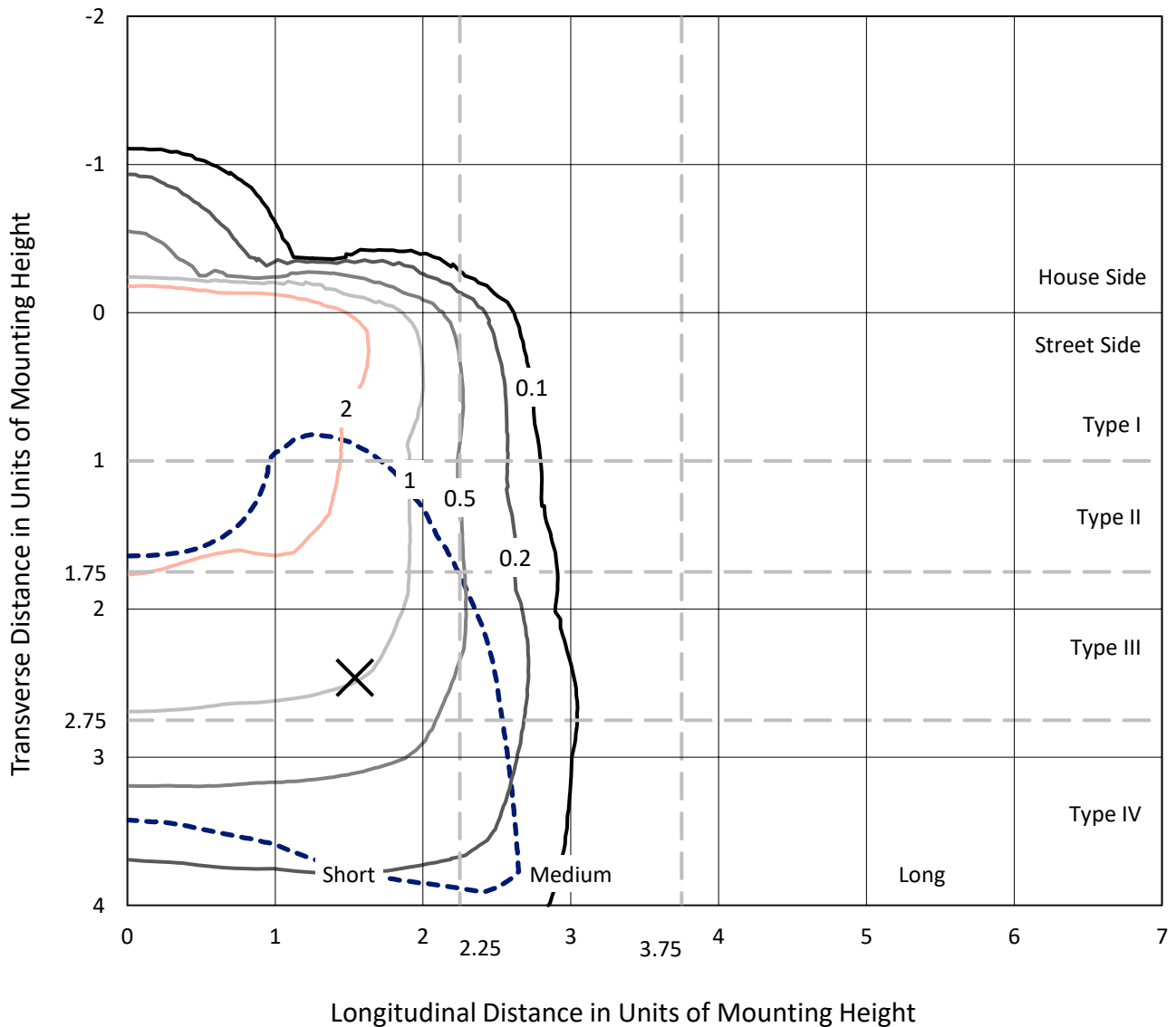
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

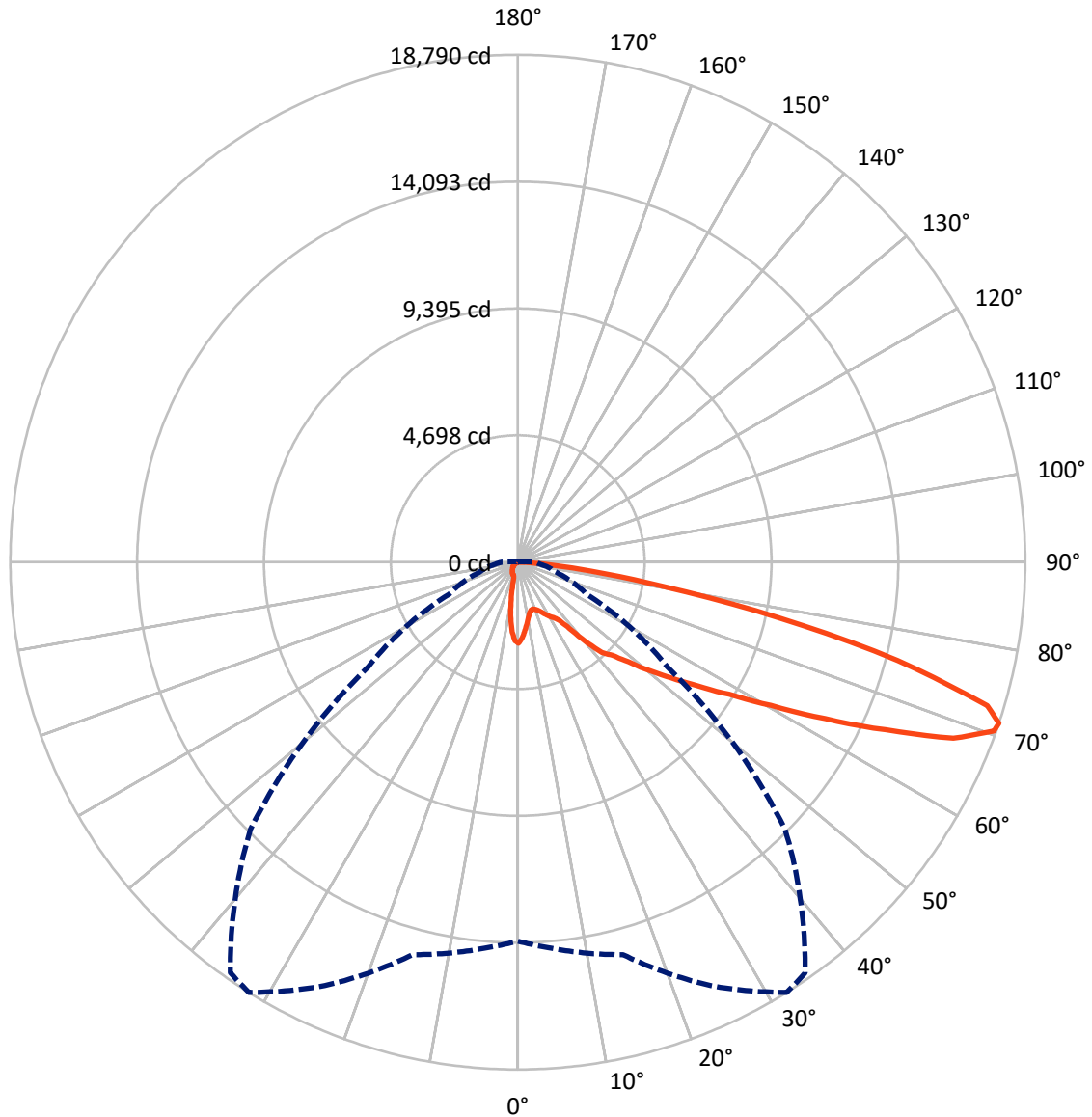
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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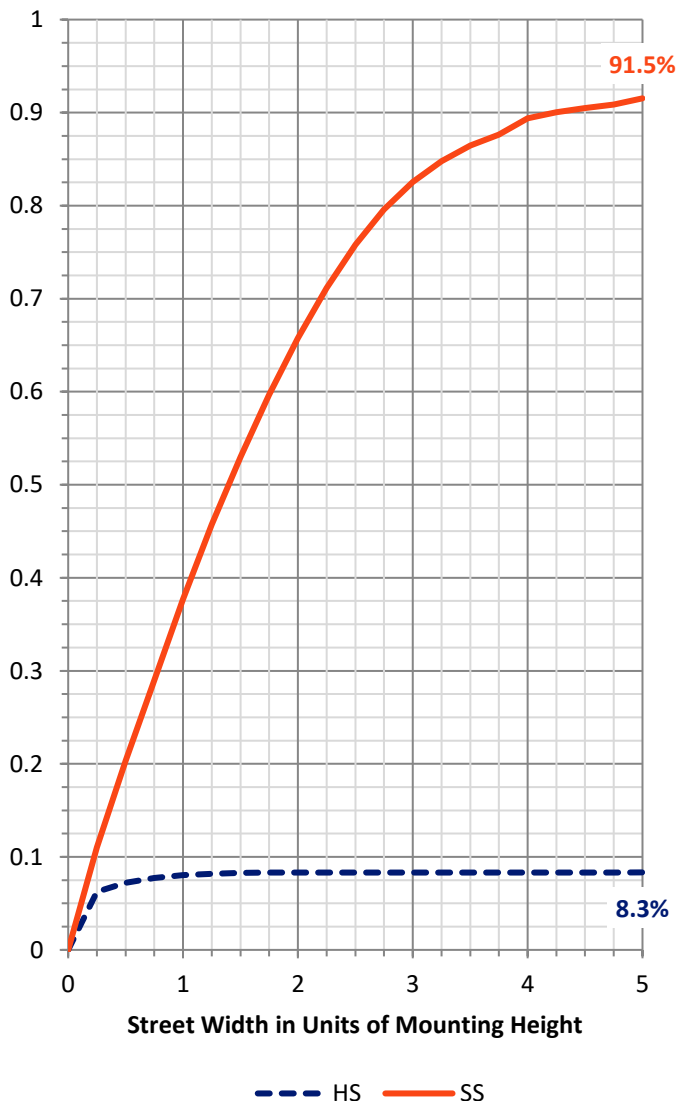
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.6	0.0	1562.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	17093.4	0.0	17093.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	18656.0	0.0	18656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	1.3
10°-20°	529.5	2.8
20°-30°	823.7	4.4
30°-40°	1372.2	7.4
40°-50°	2552.6	13.7
50°-60°	4098.3	22.0
60°-70°	5512.4	29.5
70°-80°	3270.6	17.5
80°-90°	252.8	1.4
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°	18656.0	100.0
0°-180°	18656.0	100.0

Coefficient of Utilization



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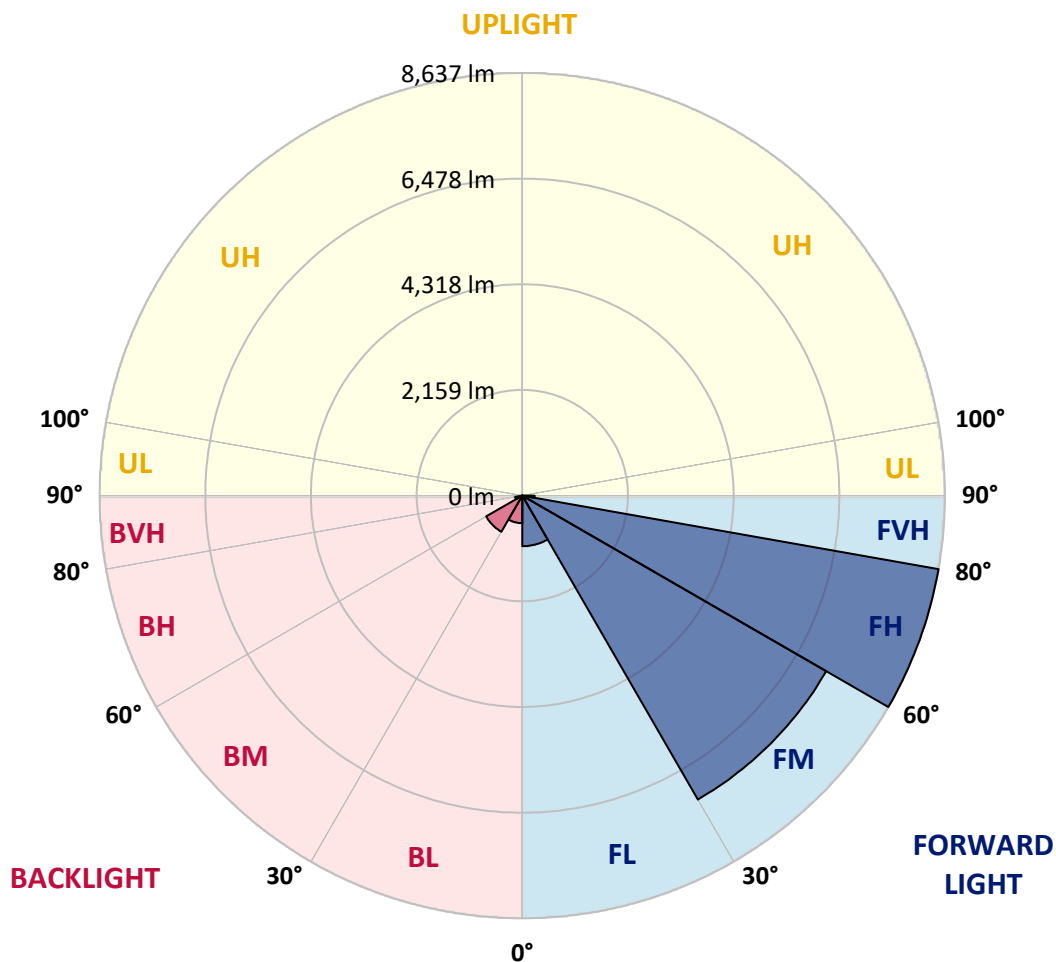
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1034.0	5.5			
FM	(30°-60°)	7170.7	38.4			
FH	(60°-80°)	8636.8	46.3			G4/12000
FVH	(80°-90°)	251.8	1.3			G3/500
BL	(0°-30°)	563.1	3.0	B2/1000		
BM	(30°-60°)	852.5	4.6	B1/1000		
BH	(60°-80°)	146.2	0.8	B1/500		G1/500
BVH	(80°-90°)	1.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	2782.5	2811.1	2806.8	2816.9	2841.2	2851.2	2878.5	2908.5	2950.1	2978.7	2997.3
5°	2491.8	2513.3	2516.1	2566.3	2590.6	2617.8	2698.0	2785.4	2882.7	2960.1	3011.6
7.5°	2181.0	2192.5	2215.4	2281.3	2342.9	2370.1	2491.8	2643.6	2796.8	2941.5	3034.5
10°	1924.7	1937.6	1979.1	2049.3	2106.6	2142.4	2311.4	2501.8	2716.6	2931.4	3067.5
12.5°	1778.6	1785.8	1801.5	1864.5	1937.6	1976.2	2158.1	2375.8	2652.2	2935.7	3123.3
15°	1768.6	1765.7	1747.1	1772.9	1838.8	1878.9	2056.4	2289.9	2594.9	2950.1	3189.2
17.5°	1821.6	1814.4	1770.0	1770.0	1824.5	1857.4	2013.5	2244.0	2566.3	2983.0	3282.3
20°	1903.2	1891.8	1818.7	1813.0	1866.0	1900.4	2039.3	2246.9	2572.0	3044.6	3406.9
22.5°	2006.3	1993.4	1883.2	1886.0	1943.3	1977.7	2113.7	2298.5	2607.8	3120.5	3540.1
25°	2140.9	2126.6	1996.3	1990.6	2050.7	2080.8	2224.0	2390.1	2657.9	3215.0	3714.8
27.5°	2319.9	2289.9	2133.8	2125.2	2189.6	2228.3	2357.2	2513.3	2746.7	3345.3	3949.6
30°	2467.4	2434.5	2285.6	2262.7	2331.4	2361.5	2494.7	2679.4	2921.4	3573.0	4274.7
32.5°	2660.8	2612.1	2437.4	2377.2	2450.3	2488.9	2693.7	2988.7	3180.6	3813.6	4661.4
35°	3096.1	3066.1	2852.7	2642.2	2637.9	2686.6	2987.3	3300.9	3447.0	4188.8	5188.4
37.5°	3719.1	3697.6	3471.3	3189.2	3107.6	3084.7	3343.9	3644.6	3872.3	4704.3	5801.3
40°	4442.3	4392.1	4184.5	3945.3	3839.4	3772.1	3764.9	4155.9	4427.9	5404.6	6440.0
42.5°	4960.7	4869.0	4617.0	4599.8	4576.9	4506.7	4303.4	4903.4	5145.4	6157.9	7123.1
45°	5504.9	5365.9	4990.7	4926.3	4917.7	4913.4	5116.8	5788.4	5927.3	6974.2	7824.8
47.5°	5927.3	5817.0	5509.2	5480.5	5516.3	5613.7	6192.2	6727.8	6699.2	7701.6	8413.4
50°	6490.1	6407.1	6064.8	6119.2	6304.0	6462.9	7405.2	7751.8	7333.6	8274.5	8841.6
52.5°	7154.6	7001.4	6683.4	6831.0	7114.5	7379.4	8692.6	8648.2	7779.0	8705.5	9160.9
55°	7730.3	7621.5	7512.6	7665.8	8089.7	8420.5	9855.5	9319.9	8102.6	9052.1	9301.3
57.5°	8704.1	8678.3	8566.6	8722.7	9236.8	9580.5	10896.6	9841.2	8310.3	9232.5	9136.6
60°	10144.7	10103.2	9895.6	10094.6	10764.8	11304.7	11856.1	10309.4	8357.5	9162.4	8662.6
62.5°	11877.5	11735.8	11558.2	11851.8	12771.2	13008.9	12759.7	10587.3	8181.4	8603.8	7519.8
65°	13495.8	13349.7	13354.0	13972.7	14973.7	15135.5	13813.7	10545.7	7665.8	7204.7	5546.4
67.5°	14734.5	14710.2	14884.9	16092.1	17401.0	17289.3	14756.0	9924.2	6137.8	4670.0	2947.2
70°	14797.5	14844.8	15346.0	17383.8	18712.8	18535.2	14675.8	8066.8	3826.5	2148.1	1161.4
71°	14035.7	14353.6	15046.7	17343.7	18790.1	18559.6	13999.9	6756.5	2806.8	1497.9	837.8
72.5°	11960.6	12128.2	13626.1	16322.7	18178.6	17686.0	12285.7	4735.8	1797.2	916.5	481.2
75°	6587.5	6999.9	9125.1	12805.5	14539.8	14107.3	8006.7	2249.8	896.5	501.2	199.1
77.5°	3136.2	3056.0	4452.3	7615.7	9858.3	9835.4	4034.1	999.6	522.7	339.4	100.2
80°	896.5	1008.2	1704.2	3620.3	5473.4	5533.5	1549.5	482.6	362.3	264.9	51.6
82.5°	270.7	276.4	625.8	1601.0	2722.4	2566.3	581.4	246.3	260.6	210.5	30.1
85°	47.3	58.7	184.7	564.2	1038.2	787.6	146.1	117.4	171.8	138.9	17.2
87.5°	2.9	4.3	61.6	64.4	91.7	53.0	25.8	17.2	37.2	37.2	10.0
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°	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2	3000.2
2.5°	3010.2	3018.8	3013.1	3000.2	2978.7	2952.9	2918.5	2889.9	2865.6	2852.7	2868.4
5°	3028.8	3040.3	3011.6	2947.2	2849.8	2743.8	2623.5	2530.5	2457.4	2434.5	2425.9
7.5°	3057.5	3064.6	2987.3	2844.1	2637.9	2387.3	2168.1	1983.4	1840.2	1797.2	1734.2
10°	3094.7	3090.4	2944.3	2678.0	2315.6	1939.0	1599.6	1347.6	1157.1	1088.4	1082.6
12.5°	3152.0	3129.1	2889.9	2451.7	1931.9	1439.2	1019.6	797.7	677.4	637.3	628.7
15°	3223.6	3169.2	2804.0	2186.8	1479.3	929.4	628.7	561.4	545.6	542.8	539.9
17.5°	3308.1	3222.1	2690.9	1861.7	1039.7	602.9	525.6	524.1	525.6	522.7	521.3
20°	3422.6	3278.0	2556.2	1476.5	687.4	508.4	501.2	501.2	502.7	501.2	501.2
22.5°	3544.4	3343.9	2390.1	1127.0	518.4	482.6	481.2	484.0	486.9	485.5	485.5
25°	3694.7	3429.8	2171.0	771.9	464.0	461.1	462.6	468.3	474.0	475.4	474.0
27.5°	3912.4	3535.8	1936.2	531.3	425.3	428.2	442.5	456.8	465.4	466.9	466.9
30°	4157.3	3653.2	1629.7	431.1	393.8	393.8	411.0	438.2	456.8	459.7	461.1
32.5°	4472.3	3789.2	1290.3	388.1	363.7	360.9	376.6	409.6	443.9	454.0	454.0
35°	4861.9	3949.6	959.5	360.9	342.3	335.1	343.7	370.9	415.3	443.9	446.8
37.5°	5318.7	4101.4	701.7	336.5	322.2	312.2	317.9	339.4	375.2	418.2	429.6
40°	5741.1	4236.0	524.1	316.5	302.2	295.0	299.3	309.3	339.4	379.5	386.7
42.5°	6202.3	4340.6	416.7	295.0	282.1	279.3	279.3	283.5	303.6	326.5	327.9
45°	6662.0	4377.8	349.4	269.2	260.6	263.5	262.1	259.2	267.8	264.9	264.9
47.5°	6989.9	4333.4	289.3	244.9	244.9	249.2	242.0	232.0	227.7	210.5	211.9
50°	7214.7	4171.6	237.7	216.2	227.7	233.4	219.1	203.4	187.6	169.0	164.7
52.5°	7307.8	3883.8	194.8	179.0	201.9	209.1	191.9	173.3	148.9	133.2	128.9
55°	7247.7	3528.6	161.8	146.1	170.4	179.0	161.8	140.3	113.1	95.9	93.1
57.5°	6982.7	3104.7	137.5	116.0	136.0	141.8	130.3	107.4	80.2	63.0	63.0
60°	6524.5	2666.5	111.7	91.7	101.7	110.3	98.8	77.3	54.4	38.7	35.8
62.5°	5595.1	2165.3	90.2	71.6	71.6	78.8	68.7	55.9	34.4	20.0	18.6
65°	4039.9	1485.1	71.6	53.0	51.6	51.6	43.0	37.2	20.0	8.6	5.7
67.5°	2195.4	837.8	57.3	40.1	35.8	34.4	27.2	21.5	8.6	1.4	0.0
70°	863.5	322.2	44.4	27.2	22.9	21.5	14.3	10.0	5.7	0.0	0.0
71°	585.7	222.0	38.7	22.9	18.6	15.8	11.5	8.6	4.3	0.0	0.0
72.5°	335.1	137.5	30.1	17.2	14.3	11.5	8.6	5.7	4.3	0.0	0.0
75°	146.1	70.2	18.6	12.9	10.0	7.2	5.7	4.3	1.4	0.0	0.0
77.5°	74.5	38.7	12.9	10.0	5.7	4.3	2.9	1.4	0.0	0.0	0.0
80°	41.5	20.0	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
82.5°	22.9	11.5	4.3	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.3	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	0.0	0.0	0.0	0.0	1.4	1.4	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)