

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: P191130

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10643.8 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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: 25 FT

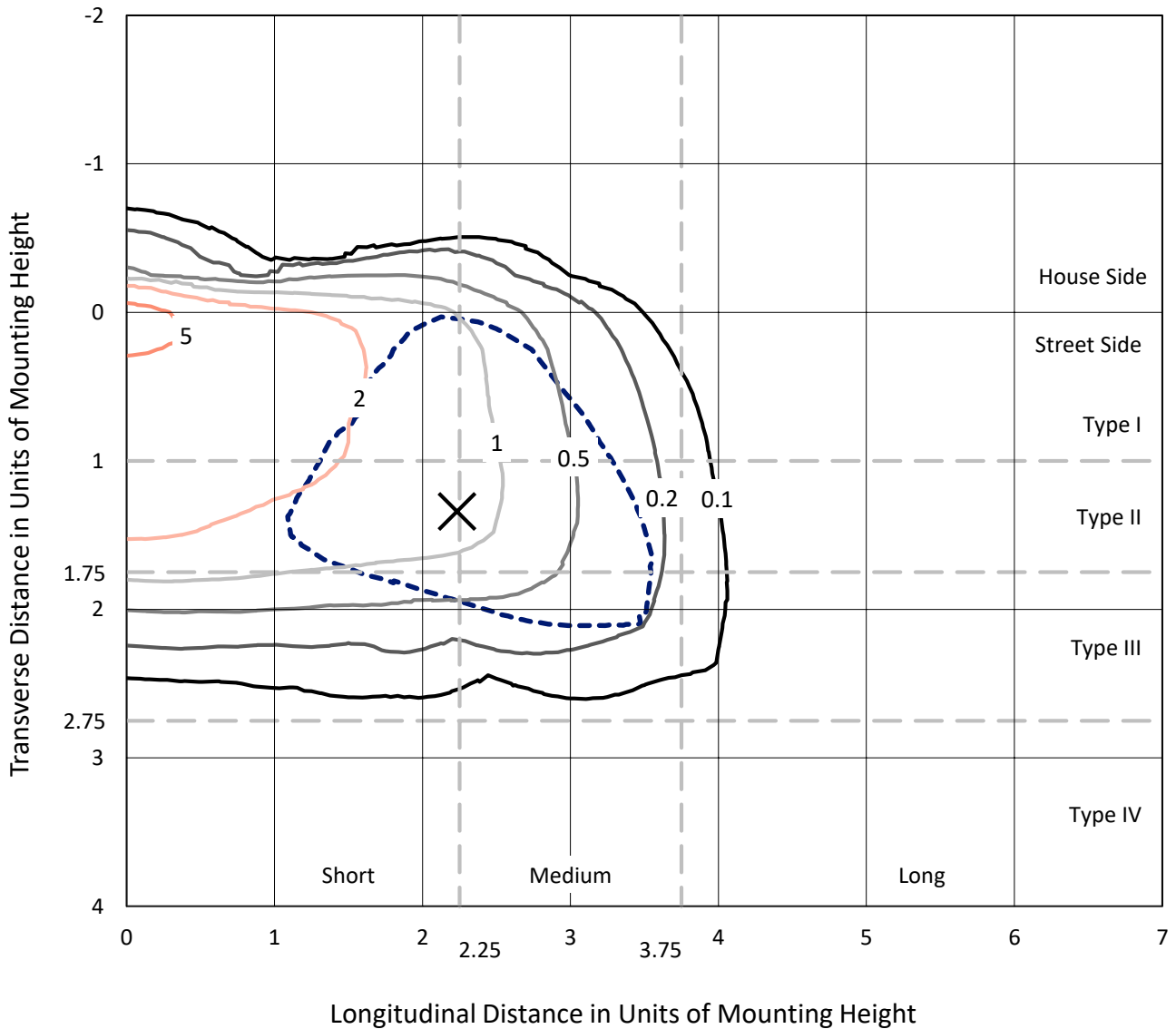


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Iso-Footcandle Lines of Horizontal Illumination

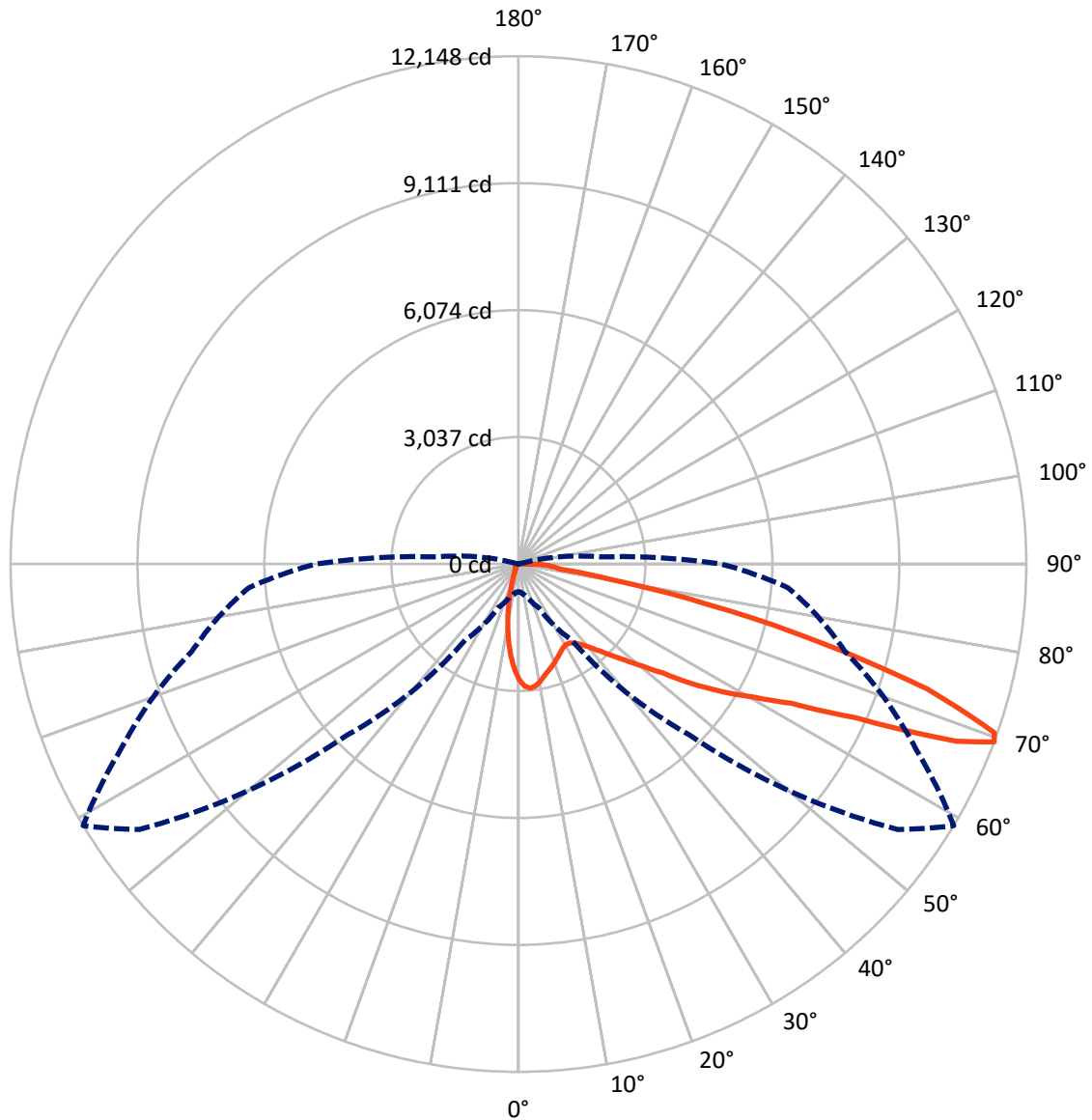
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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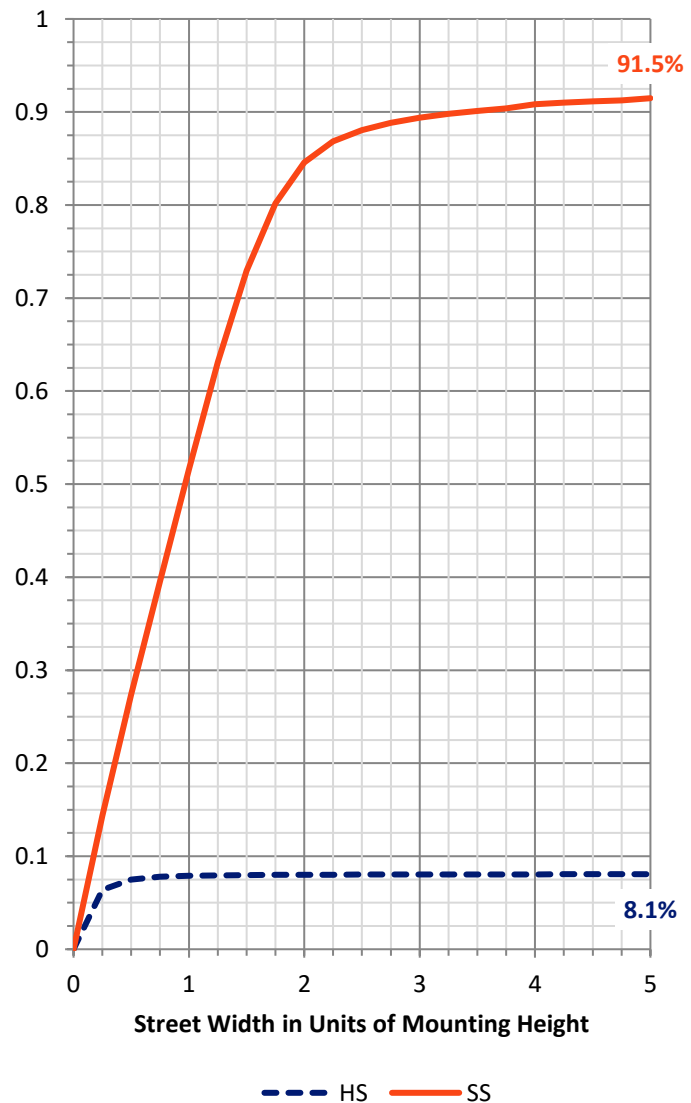
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.8	0.0	866.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9777.0	0.0	9777.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	10643.8	0.0	10643.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	2.1
10°-20°	464.7	4.4
20°-30°	625.3	5.9
30°-40°	907.8	8.5
40°-50°	1511.6	14.2
50°-60°	2358.1	22.2
60°-70°	2918.0	27.4
70°-80°	1478.8	13.9
80°-90°	154.7	1.5
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°	10643.8	100.0
0°-180°	10643.8	100.0



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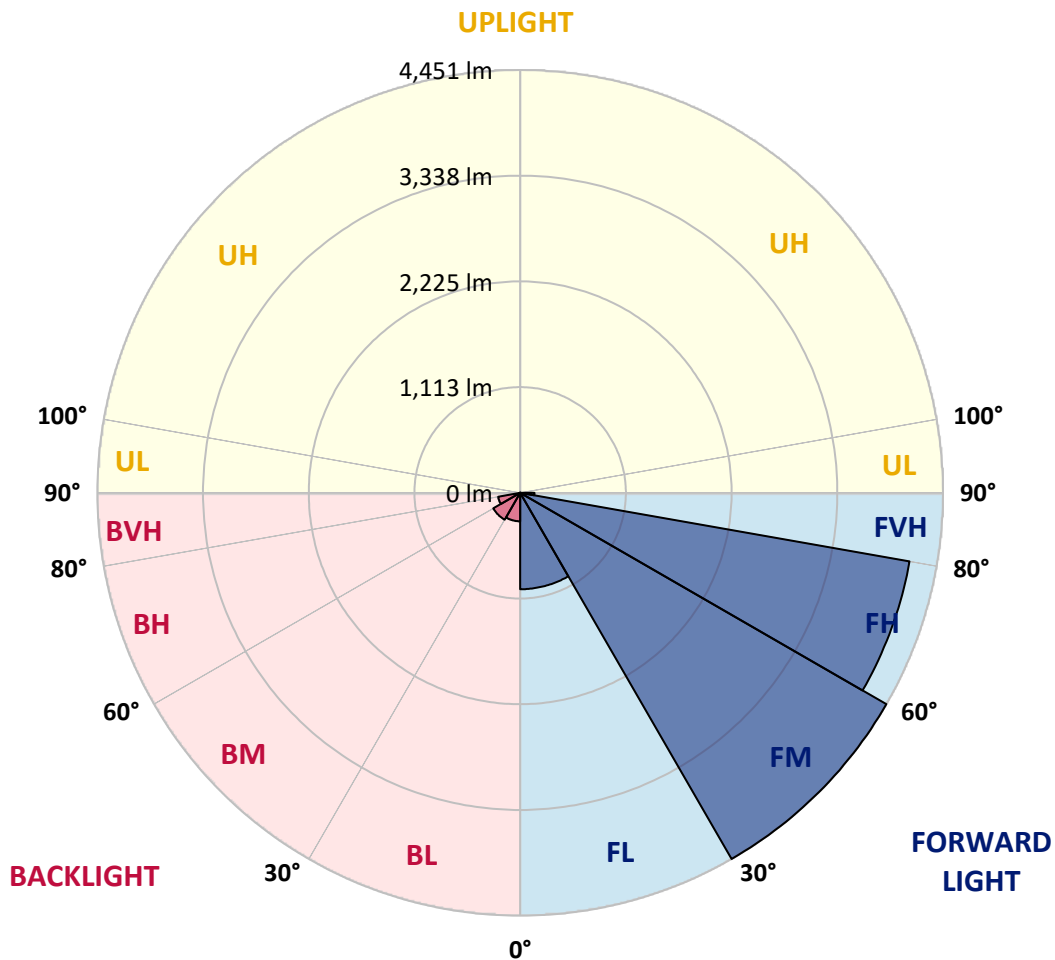
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1014.8	9.5			
FM	(30°-60°)	4450.9	41.8			
FH	(60°-80°)	4161.3	39.1			G2/5000
FVH	(80°-90°)	150.0	1.4			G2/225
BL	(0°-30°)	300.0	2.8	B1/500		
BM	(30°-60°)	326.6	3.1	B1/1000		
BH	(60°-80°)	235.4	2.2	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	3036.4	3035.3	3022.0	3016.0	3005.1	2982.3	2946.8	2928.1	2898.0	2845.6	2775.3
5°	3008.8	3023.2	3031.0	3031.6	3039.5	3031.0	2999.2	2983.5	2942.0	2857.7	2731.3
7.5°	2821.0	2826.4	2848.7	2867.9	2905.3	2940.8	2952.2	2945.6	2920.9	2830.6	2662.7
10°	2620.0	2625.4	2651.9	2677.2	2727.7	2782.4	2840.2	2852.3	2862.5	2792.1	2596.5
12.5°	2446.6	2452.0	2479.1	2512.3	2571.2	2638.6	2728.3	2748.2	2793.3	2755.4	2543.6
15°	2297.3	2299.8	2326.3	2367.2	2437.6	2524.2	2626.0	2657.9	2727.1	2729.5	2497.2
17.5°	2170.4	2176.4	2192.6	2231.8	2308.8	2415.9	2534.5	2580.3	2661.5	2707.9	2452.0
20°	2092.8	2098.8	2098.2	2119.8	2189.0	2303.4	2443.0	2497.7	2596.5	2685.6	2411.7
22.5°	2077.7	2077.7	2062.1	2059.0	2099.9	2195.7	2347.9	2414.7	2538.1	2675.9	2383.5
25°	2131.2	2128.9	2089.7	2057.8	2059.6	2116.8	2255.8	2335.3	2488.7	2682.6	2368.3
27.5°	2244.4	2241.4	2192.1	2131.2	2082.5	2081.9	2186.0	2271.5	2449.7	2713.9	2374.4
30°	2400.9	2399.6	2346.1	2269.7	2181.2	2099.9	2161.9	2239.5	2424.4	2770.5	2388.3
32.5°	2571.8	2570.0	2529.7	2449.0	2337.0	2181.2	2187.2	2252.2	2431.6	2845.6	2421.9
35°	2753.0	2750.0	2732.5	2662.1	2538.8	2331.1	2270.2	2320.9	2477.3	2958.2	2488.1
37.5°	2949.2	2952.2	2964.8	2897.4	2768.0	2541.1	2409.4	2443.6	2569.4	3111.1	2595.8
40°	3238.7	3238.0	3242.3	3153.9	3029.3	2798.1	2603.7	2614.6	2723.5	3314.0	2759.6
42.5°	3764.2	3727.4	3616.0	3435.5	3310.3	3091.9	2848.7	2837.3	2911.8	3564.9	2989.0
45°	4470.1	4391.9	4103.0	3756.9	3596.8	3422.9	3150.2	3113.5	3161.0	3866.4	3271.8
47.5°	5077.4	4996.2	4587.5	4091.6	3900.7	3737.0	3503.5	3437.3	3453.0	4204.1	3630.6
50°	5283.8	5244.2	4887.2	4382.8	4195.1	4132.5	3913.4	3832.8	3810.5	4594.7	4046.4
52.5°	5212.2	5209.3	4971.5	4571.9	4464.7	4541.8	4429.2	4335.9	4254.0	5006.4	4469.6
55°	5097.3	5112.3	5005.8	4737.4	4733.7	4915.5	5134.6	5057.0	4819.8	5453.6	4834.3
57.5°	4780.1	4844.5	4986.6	5050.3	5198.4	5384.4	5722.1	5767.8	5487.3	5796.0	5137.1
60°	3878.5	4019.9	4484.6	5095.5	5797.3	6260.7	6431.1	6470.2	6035.0	6080.7	5545.7
62.5°	2753.0	2897.4	3486.6	4520.1	5806.3	7412.1	7487.4	7333.8	6638.1	6502.7	6250.4
65°	1461.4	1572.7	2054.2	3262.8	5034.0	7679.3	9334.5	8877.1	7702.2	7332.6	7161.2
67.5°	747.6	781.2	972.6	1596.8	3460.7	6821.0	10990.3	11312.3	9536.2	8156.0	7117.2
69°	661.4	681.3	808.3	1154.4	2216.1	5777.4	11070.9	12148.3	10496.1	8087.4	6467.7
70°	640.4	657.9	773.5	1044.8	1732.2	4845.1	10762.2	12074.8	10741.7	7826.2	5982.6
72.5°	543.5	558.5	688.5	923.3	1407.8	2405.1	8742.2	10231.9	9639.1	6519.5	4330.5
75°	363.6	412.9	660.8	865.5	1309.7	1366.3	5763.6	7394.1	6868.6	4397.3	2255.8
77.5°	87.3	93.9	186.6	688.5	1197.8	1202.6	2964.2	4596.5	3749.1	1567.3	533.3
80°	47.0	45.1	52.4	136.7	1115.3	1128.5	1334.3	2231.2	1338.5	260.0	175.7
82.5°	33.1	31.3	33.7	57.2	350.9	1028.0	965.4	1010.0	555.0	99.9	78.9
85°	12.1	11.5	18.6	51.8	110.2	591.1	991.9	833.0	449.6	45.7	57.8
87.5°	4.2	3.6	7.3	28.3	33.7	251.5	612.1	629.5	177.0	27.7	27.1
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°	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5	2770.5
2.5°	2745.8	2708.5	2639.8	2569.4	2504.4	2426.1	2387.1	2348.5	2332.2	2326.3	2298.0
5°	2666.3	2603.1	2457.4	2311.2	2176.4	2033.1	1938.6	1862.8	1818.3	1796.6	1762.3
7.5°	2564.6	2461.1	2240.2	2014.5	1804.4	1597.3	1443.9	1325.9	1244.7	1205.5	1170.1
10°	2465.9	2328.0	2013.9	1706.3	1421.0	1146.5	934.7	781.2	683.1	638.0	609.1
12.5°	2377.4	2198.6	1795.4	1405.9	1047.9	726.5	511.0	388.8	328.1	307.0	296.8
15°	2298.6	2079.5	1588.9	1120.6	709.6	415.3	279.3	237.7	228.1	228.1	226.9
17.5°	2223.9	1962.7	1389.8	852.8	445.4	254.0	212.5	207.0	207.0	209.5	209.5
20°	2152.3	1851.3	1197.2	612.1	280.5	201.6	192.0	190.8	192.0	195.0	195.0
22.5°	2090.9	1750.3	1017.1	420.1	208.3	181.8	177.0	175.1	175.7	177.6	178.7
25°	2045.2	1664.8	847.4	284.7	179.3	165.5	160.1	157.1	154.7	154.7	155.9
27.5°	2016.2	1592.5	683.1	207.0	161.3	150.5	142.1	137.2	131.9	128.8	130.0
30°	1995.3	1524.0	529.1	169.1	144.4	133.6	122.8	115.0	107.1	103.5	104.8
32.5°	1987.4	1468.5	395.5	149.2	129.4	117.3	104.1	93.9	85.4	82.4	83.1
35°	2008.5	1424.7	289.5	134.8	117.3	102.3	87.3	75.8	69.3	67.4	68.0
37.5°	2063.8	1401.1	216.7	122.8	106.5	89.7	72.8	62.0	57.8	57.8	58.4
40°	2168.6	1400.5	173.9	114.4	96.9	77.6	60.1	52.4	49.9	51.1	51.8
42.5°	2321.5	1432.4	151.7	106.5	88.5	66.2	49.9	44.5	44.0	45.1	45.7
45°	2530.3	1490.8	139.6	99.9	79.5	55.3	42.1	38.6	38.6	40.3	40.9
47.5°	2786.1	1576.3	129.4	93.3	70.4	46.3	36.1	33.7	34.3	36.1	36.7
50°	3094.2	1684.1	119.2	86.0	63.8	38.6	31.3	29.5	30.1	32.5	33.1
52.5°	3445.1	1829.1	110.8	79.5	55.3	31.9	26.5	25.3	26.5	28.8	29.5
55°	3746.0	1959.2	100.6	74.1	44.5	26.5	21.7	21.7	22.9	25.9	26.5
57.5°	4035.5	2095.1	91.5	63.8	34.9	21.1	18.1	18.6	20.5	23.4	24.0
60°	4460.5	2325.7	80.6	53.6	26.5	16.9	15.0	15.7	18.1	21.1	21.7
62.5°	5182.2	2676.6	69.9	44.5	20.5	13.2	12.1	13.2	16.3	19.8	20.5
65°	5833.4	2819.2	57.2	37.3	15.7	10.2	10.2	12.1	15.7	19.2	19.8
67.5°	5470.4	2373.2	44.5	29.5	12.1	7.8	8.4	11.5	15.0	19.2	19.8
69°	4837.8	1940.4	38.0	23.4	10.2	7.3	7.8	11.5	15.0	18.6	19.2
70°	4345.0	1638.3	33.7	19.8	9.0	7.3	7.8	10.8	15.0	18.6	19.2
72.5°	2910.1	884.8	27.1	14.4	8.4	6.6	6.6	10.8	14.4	18.1	18.6
75°	1250.7	244.4	21.7	10.2	7.3	6.0	6.0	10.2	13.8	17.5	18.6
77.5°	228.7	62.0	17.5	9.0	7.3	6.0	5.4	9.6	13.2	16.9	17.5
80°	90.8	30.7	13.8	7.8	6.6	5.4	4.8	9.0	12.7	16.3	16.9
82.5°	54.7	17.5	11.5	7.3	6.6	4.8	4.2	7.8	12.1	15.7	16.3
85°	44.5	12.1	9.0	7.3	6.0	4.8	3.6	7.3	10.8	15.0	15.7
87.5°	21.7	8.4	8.4	6.6	6.0	4.8	3.6	6.6	10.2	14.4	15.0
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)