

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: P270039

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270039
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: GPC-AF-02-LED-E1-SL3-7027-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 9942.7 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

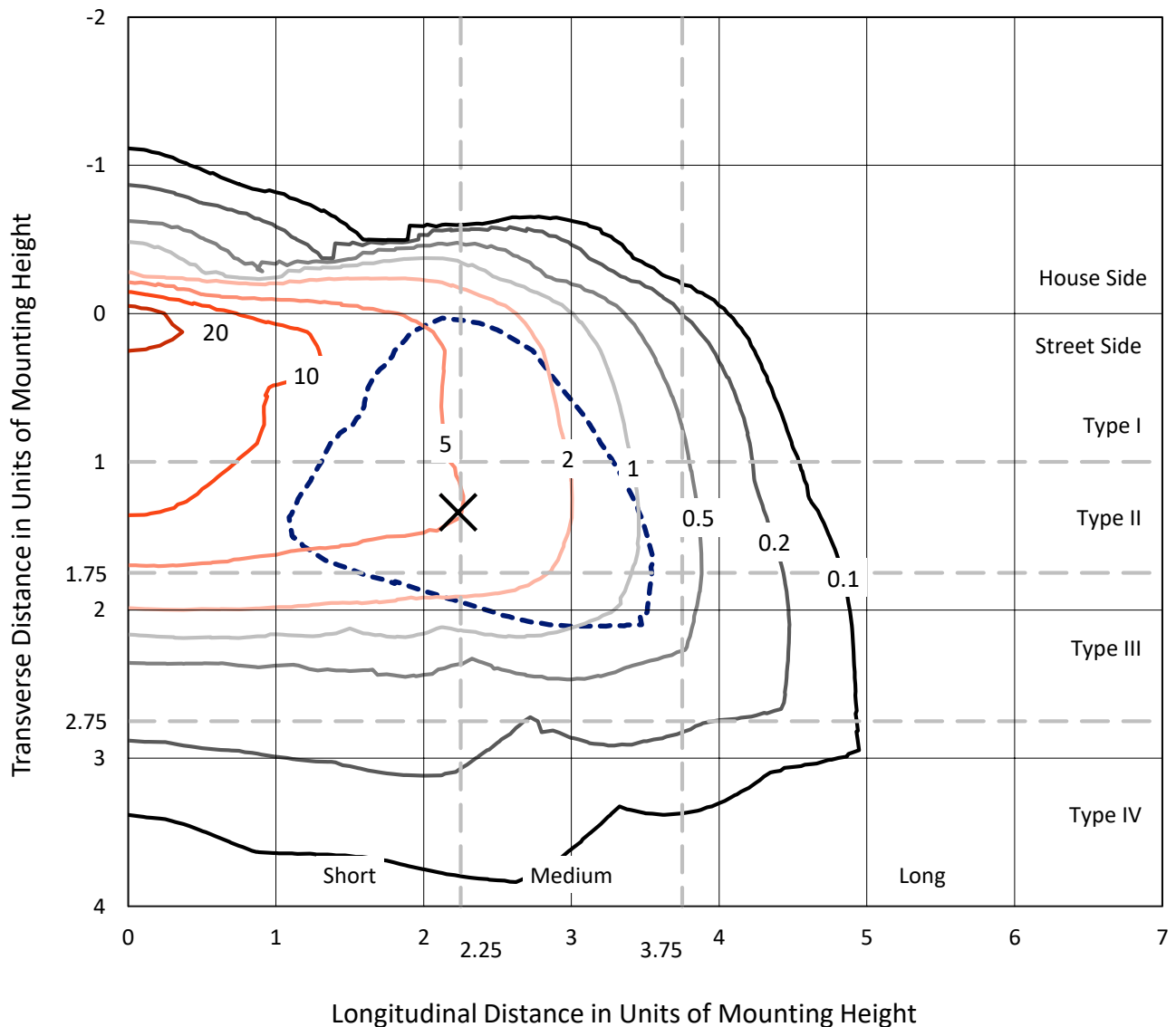
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

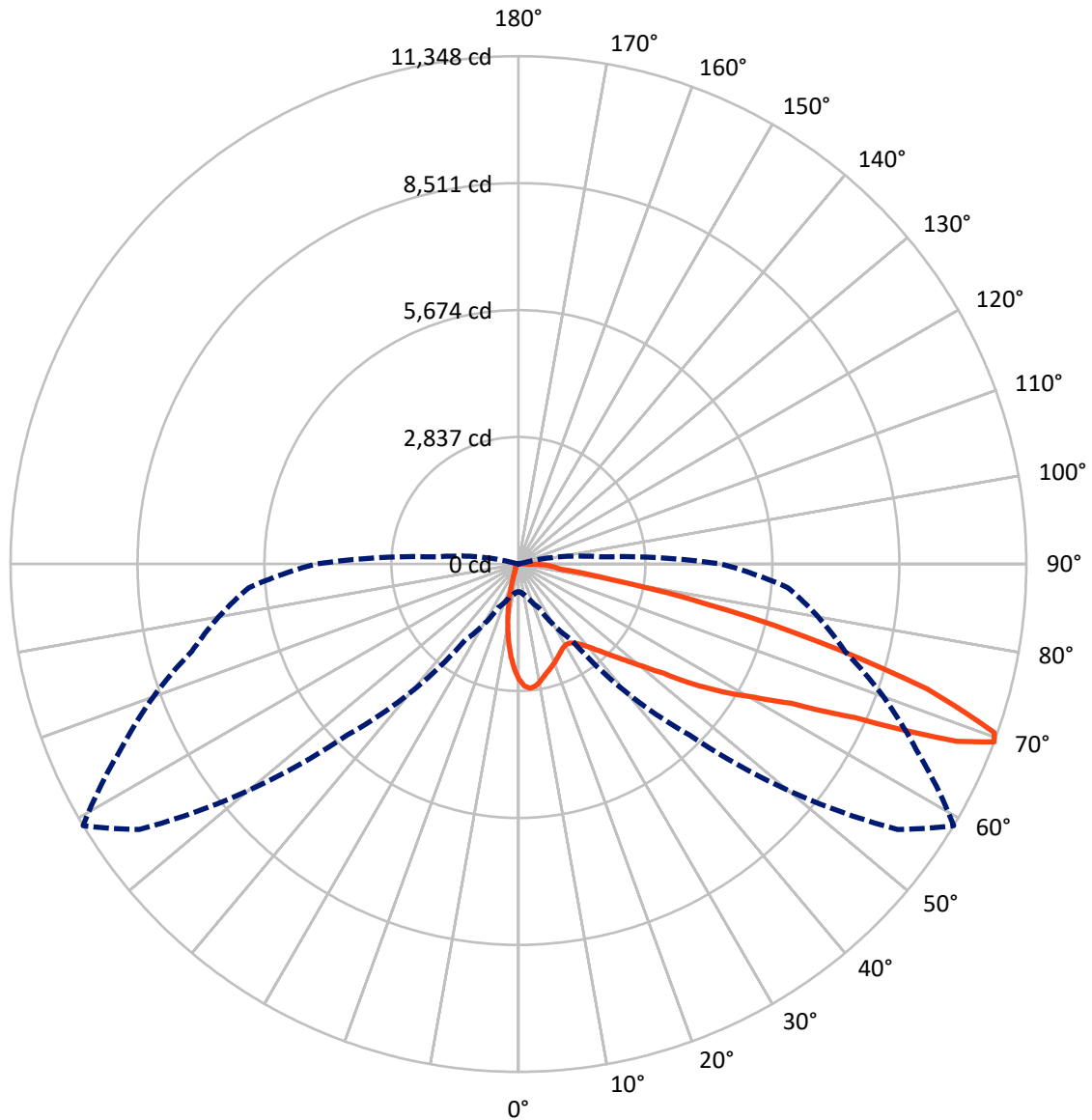


Based on 10 foot mounting height. Maximum calculated value = 26 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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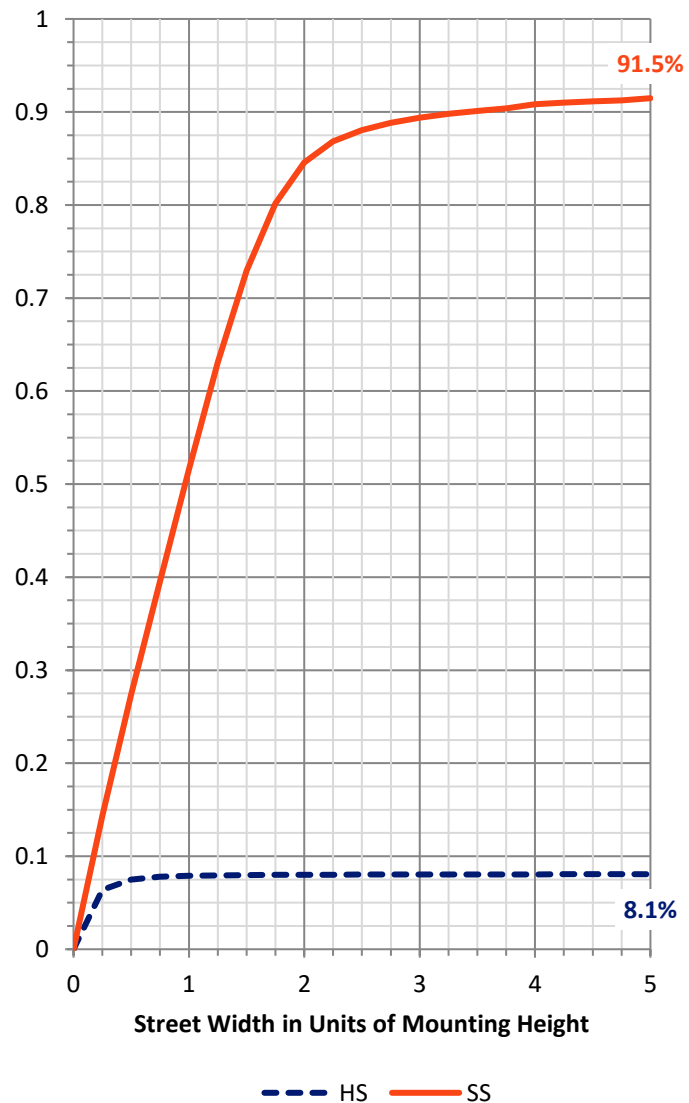
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	809.7	0.0	809.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	9133.0	0.0	9133.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	9942.7	0.0	9942.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	2.1
10°-20°	434.1	4.4
20°-30°	584.1	5.9
30°-40°	848.0	8.5
40°-50°	1412.0	14.2
50°-60°	2202.8	22.2
60°-70°	2725.8	27.4
70°-80°	1381.4	13.9
80°-90°	144.5	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°	9942.7	100.0
0°-180°	9942.7	100.0



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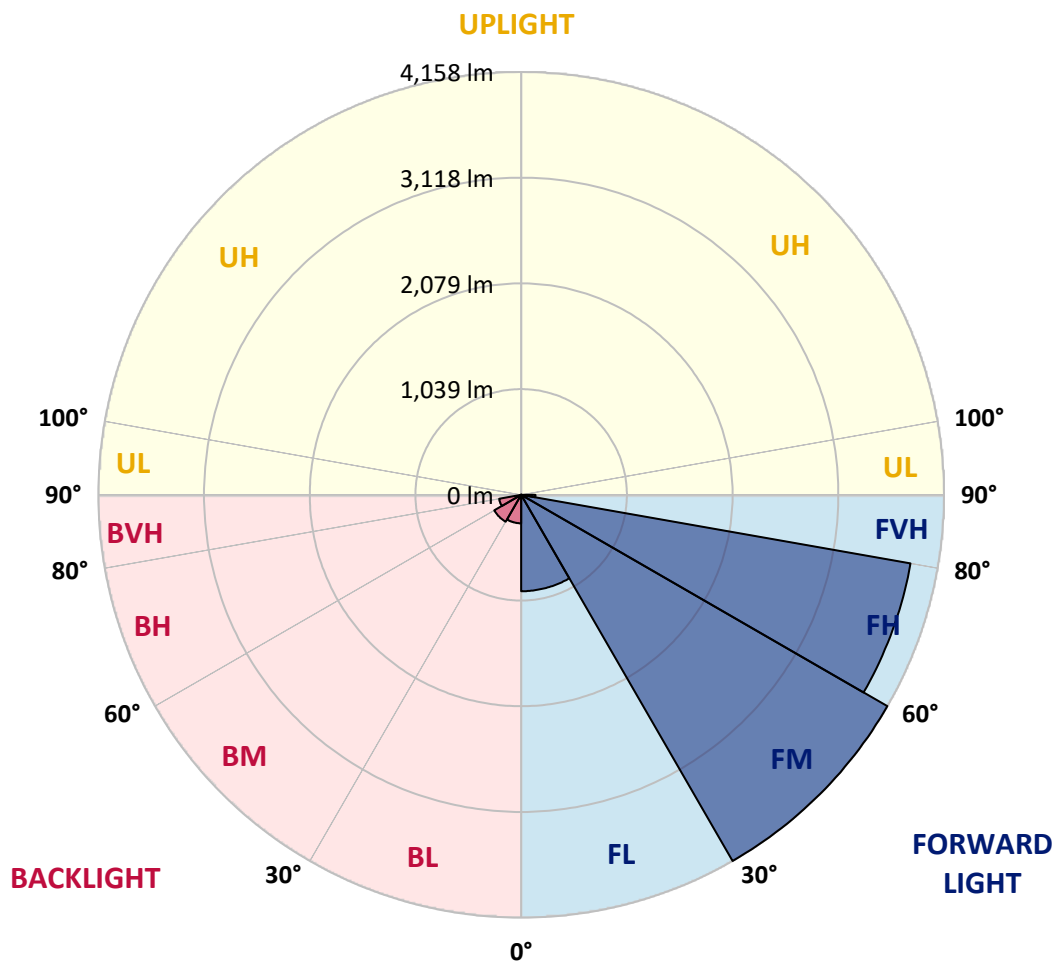
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	947.9	9.5			
FM	(30°-60°)	4157.8	41.8			
FH	(60°-80°)	3887.3	39.1			G2/5000
FVH	(80°-90°)	140.1	1.4			G2/225
BL	(0°-30°)	280.3	2.8	B1/500		
BM	(30°-60°)	305.1	3.1	B1/1000		
BH	(60°-80°)	219.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.5	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°	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9
2.5°	2836.5	2835.3	2822.9	2817.4	2807.2	2785.9	2752.7	2735.2	2707.1	2658.3	2592.4
5°	2810.6	2824.1	2831.5	2831.9	2839.3	2831.5	2801.6	2787.0	2748.2	2669.4	2551.5
7.5°	2635.2	2640.2	2661.0	2679.0	2714.0	2747.1	2757.7	2751.5	2728.5	2644.2	2487.3
10°	2447.4	2452.5	2477.3	2500.8	2548.0	2599.2	2653.1	2664.5	2674.0	2608.1	2425.4
12.5°	2285.5	2290.6	2315.8	2346.8	2401.9	2464.8	2548.7	2567.2	2609.3	2573.9	2376.0
15°	2146.1	2148.3	2173.0	2211.3	2277.0	2358.0	2453.0	2482.8	2547.5	2549.7	2332.7
17.5°	2027.5	2033.0	2048.1	2084.8	2156.7	2256.8	2367.6	2410.2	2486.2	2529.4	2290.6
20°	1954.9	1960.5	1960.0	1980.1	2044.8	2151.7	2282.1	2333.3	2425.4	2508.7	2252.9
22.5°	1940.8	1940.8	1926.2	1923.5	1961.6	2051.1	2193.3	2255.7	2370.9	2499.7	2226.4
25°	1990.8	1988.7	1952.1	1922.3	1924.0	1977.3	2107.2	2181.4	2324.8	2505.9	2212.4
27.5°	2096.6	2093.7	2047.7	1990.8	1945.3	1944.7	2042.0	2121.9	2288.3	2535.1	2218.0
30°	2242.8	2241.6	2191.6	2120.2	2037.5	1961.6	2019.5	2092.1	2264.7	2587.9	2230.9
32.5°	2402.4	2400.7	2363.1	2287.7	2183.2	2037.5	2043.2	2103.8	2271.5	2658.3	2262.5
35°	2571.7	2568.8	2552.5	2486.8	2371.5	2177.6	2120.7	2168.0	2314.2	2763.5	2324.3
37.5°	2754.9	2757.7	2769.6	2706.6	2585.7	2373.7	2250.6	2282.6	2400.2	2906.2	2425.0
40°	3025.4	3024.8	3028.7	2946.1	2829.7	2613.9	2432.2	2442.3	2544.1	3095.6	2577.9
42.5°	3516.1	3481.9	3377.9	3209.3	3092.2	2888.1	2661.0	2650.4	2720.1	3330.1	2792.1
45°	4175.7	4102.6	3832.8	3509.4	3359.8	3197.4	2942.7	2908.4	2952.8	3611.8	3056.3
47.5°	4743.0	4667.1	4285.4	3822.0	3643.8	3490.9	3272.8	3210.9	3225.5	3927.2	3391.5
50°	4935.8	4898.7	4565.4	4094.1	3918.8	3860.3	3655.7	3580.3	3559.5	4292.1	3779.9
52.5°	4868.9	4866.1	4644.0	4270.7	4170.7	4242.6	4137.4	4050.4	3973.8	4676.6	4175.1
55°	4761.6	4775.6	4676.1	4425.3	4422.0	4591.8	4796.4	4723.9	4502.4	5094.4	4515.9
57.5°	4465.2	4525.4	4658.1	4717.7	4856.0	5029.7	5345.2	5387.9	5125.8	5414.4	4798.7
60°	3623.0	3755.2	4189.2	4759.8	5415.4	5848.3	6007.4	6044.0	5637.5	5680.3	5180.4
62.5°	2571.7	2706.6	3257.1	4222.4	5423.9	6924.0	6994.2	6850.8	6200.9	6074.3	5838.8
65°	1365.1	1469.1	1918.9	3047.9	4702.4	7173.5	8719.7	8292.3	7194.9	6849.7	6689.5
67.5°	698.3	729.8	908.6	1491.5	3232.8	6371.8	10266.4	10567.2	8908.0	7618.8	6648.4
69°	617.9	636.4	755.1	1078.4	2070.1	5396.8	10341.7	11348.1	9804.7	7554.7	6041.7
70°	598.2	614.5	722.5	976.0	1618.1	4526.0	10053.3	11279.6	10034.2	7310.8	5588.6
72.5°	507.7	521.8	643.2	862.5	1315.1	2246.7	8166.5	9558.0	9004.2	6090.1	4045.3
75°	339.6	385.6	617.3	808.5	1223.4	1276.3	5383.9	6907.1	6416.2	4107.7	2107.2
77.5°	81.6	87.7	174.3	643.2	1118.8	1123.3	2769.0	4293.7	3502.1	1464.1	498.1
80°	43.9	42.1	49.0	127.6	1041.9	1054.2	1246.5	2084.2	1250.4	242.8	164.2
82.5°	30.9	29.2	31.4	53.4	327.8	960.3	901.8	943.4	518.4	93.3	73.7
85°	11.3	10.7	17.4	48.3	102.9	552.1	926.5	778.1	420.0	42.8	53.9
87.5°	4.0	3.4	6.7	26.4	31.4	235.0	571.8	588.0	165.3	25.9	25.2
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°	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9	2587.9
2.5°	2564.9	2530.0	2465.9	2400.2	2339.5	2266.3	2229.9	2193.8	2178.7	2173.0	2146.6
5°	2490.6	2431.7	2295.5	2158.9	2033.0	1899.2	1810.9	1740.1	1698.5	1678.2	1646.2
7.5°	2395.7	2298.9	2092.7	1881.9	1685.6	1492.2	1348.7	1238.6	1162.8	1126.2	1093.0
10°	2303.4	2174.8	1881.2	1594.0	1327.4	1071.0	873.2	729.8	638.2	596.0	569.0
12.5°	2220.8	2053.9	1677.1	1313.3	978.8	678.6	477.3	363.2	306.4	286.7	277.2
15°	2147.1	1942.5	1484.4	1046.9	662.9	388.0	260.9	222.2	213.1	213.1	212.0
17.5°	2077.4	1833.4	1298.2	796.7	416.0	237.2	198.4	193.5	193.5	195.7	195.7
20°	2010.6	1729.4	1118.3	571.8	261.9	188.4	179.4	178.2	179.4	182.2	182.2
22.5°	1953.3	1634.9	950.1	392.4	194.5	169.8	165.3	163.7	164.2	165.8	167.0
25°	1910.5	1555.1	791.7	265.9	167.5	154.6	149.6	146.8	144.5	144.5	145.6
27.5°	1883.5	1487.7	638.2	193.5	150.7	140.6	132.7	128.2	123.2	120.3	121.5
30°	1863.8	1423.5	494.2	157.9	135.0	124.9	114.7	107.3	100.1	96.7	97.8
32.5°	1856.4	1371.8	369.4	139.4	120.9	109.6	97.3	87.7	79.8	77.0	77.6
35°	1876.1	1330.8	270.5	125.9	109.6	95.6	81.6	70.8	64.7	63.0	63.5
37.5°	1927.9	1308.9	202.4	114.7	99.4	83.7	68.0	57.9	53.9	53.9	54.5
40°	2025.7	1308.3	162.5	106.8	90.5	72.6	56.2	49.0	46.7	47.8	48.3
42.5°	2168.5	1338.1	141.7	99.4	82.6	61.8	46.7	41.6	41.0	42.1	42.8
45°	2363.6	1392.6	130.4	93.3	74.2	51.7	39.3	36.0	36.0	37.6	38.2
47.5°	2602.6	1472.4	120.9	87.1	65.8	43.3	33.8	31.4	32.1	33.8	34.2
50°	2890.5	1573.1	111.3	80.4	59.6	36.0	29.2	27.6	28.1	30.4	30.9
52.5°	3218.3	1708.7	103.4	74.2	51.7	29.8	24.7	23.6	24.7	27.0	27.6
55°	3499.3	1830.0	93.9	69.2	41.6	24.7	20.3	20.3	21.3	24.3	24.7
57.5°	3769.7	1957.1	85.5	59.6	32.6	19.7	16.9	17.4	19.1	21.9	22.5
60°	4166.7	2172.5	75.4	50.0	24.7	15.7	14.1	14.6	16.9	19.7	20.3
62.5°	4840.8	2500.2	65.2	41.6	19.1	12.3	11.3	12.3	15.2	18.5	19.1
65°	5449.1	2633.5	53.4	34.9	14.6	9.5	9.5	11.3	14.6	18.0	18.5
67.5°	5110.1	2216.9	41.6	27.6	11.3	7.4	7.9	10.7	14.1	18.0	18.5
69°	4519.3	1812.7	35.4	21.9	9.5	6.7	7.4	10.7	14.1	17.4	18.0
70°	4058.7	1530.4	31.4	18.5	8.4	6.7	7.4	10.2	14.1	17.4	18.0
72.5°	2718.4	826.5	25.2	13.5	7.9	6.2	6.2	10.2	13.5	16.9	17.4
75°	1168.3	228.3	20.3	9.5	6.7	5.6	5.6	9.5	12.9	16.3	17.4
77.5°	213.6	57.9	16.3	8.4	6.7	5.6	5.0	9.0	12.3	15.7	16.3
80°	84.9	28.7	12.9	7.4	6.2	5.0	4.5	8.4	11.8	15.2	15.7
82.5°	51.1	16.3	10.7	6.7	6.2	4.5	4.0	7.4	11.3	14.6	15.2
85°	41.6	11.3	8.4	6.7	5.6	4.5	3.4	6.7	10.2	14.1	14.6
87.5°	20.3	7.9	7.9	6.2	5.6	4.5	3.4	6.2	9.5	13.5	14.1
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)