

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: P450374

Luminaire Tested: **GALN-SA1A-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 33
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

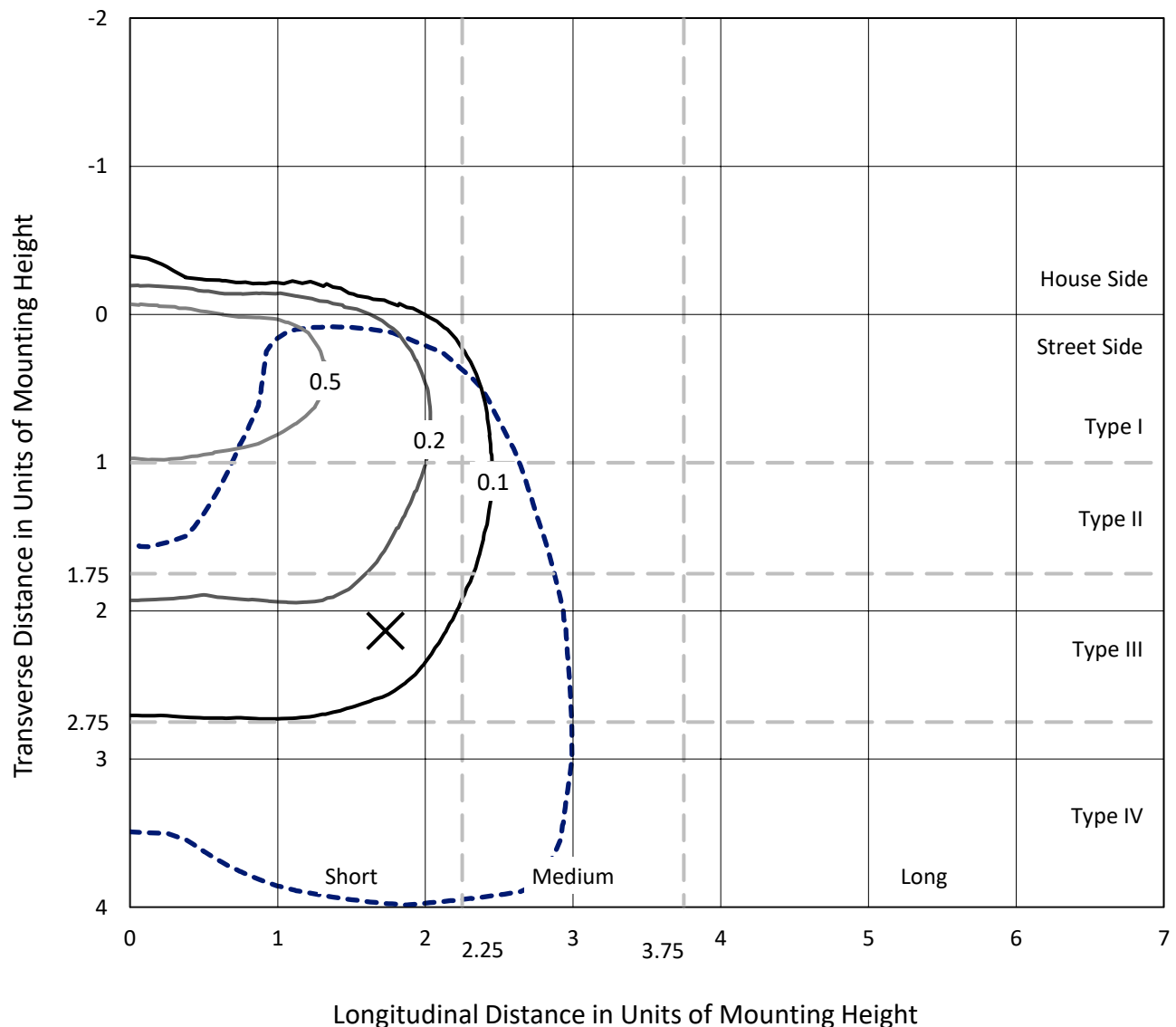


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Iso-Footcandle Lines of Horizontal Illumination

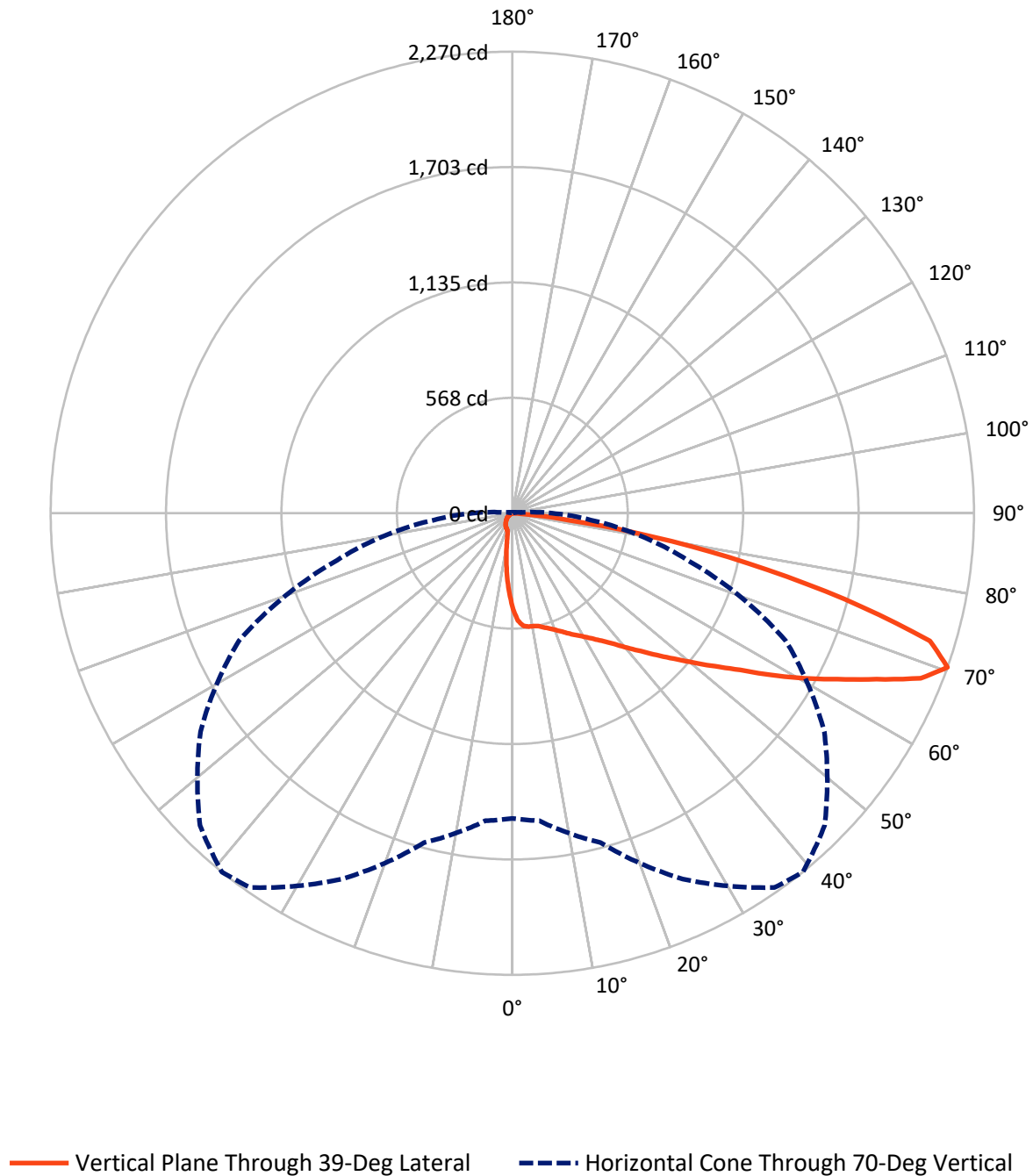
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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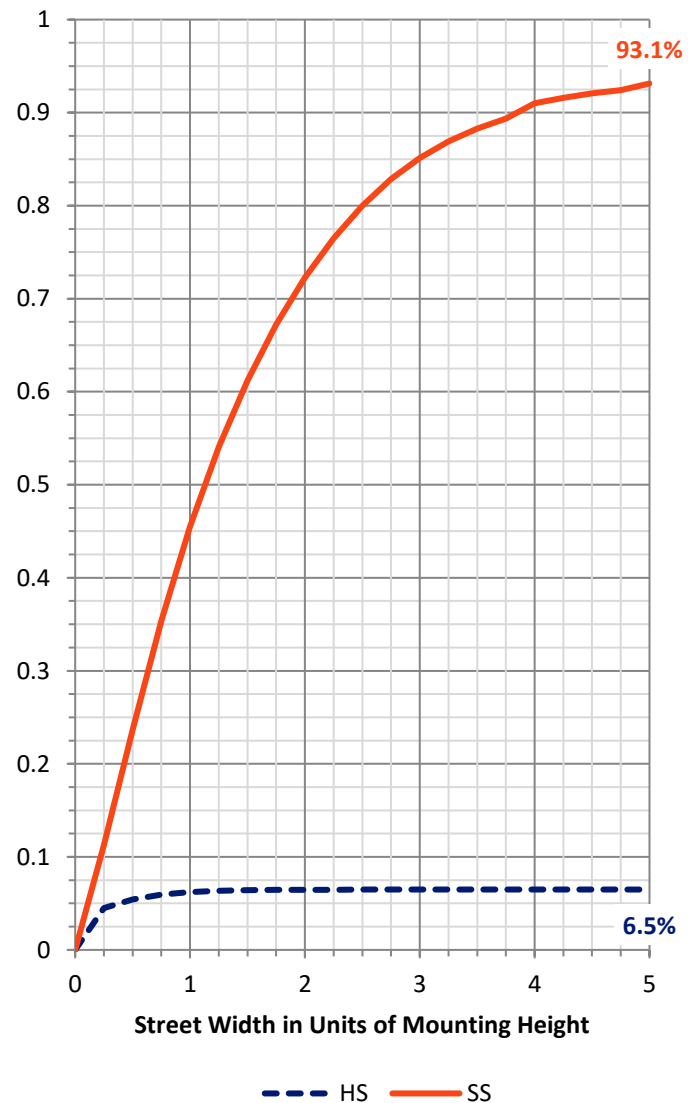
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	197.2	0.0	197.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	2827.8	0.0	2827.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	3025.0	0.0	3025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	1.3
10°-20°	104.6	3.5
20°-30°	175.3	5.8
30°-40°	271.8	9.0
40°-50°	430.8	14.2
50°-60°	631.4	20.9
60°-70°	809.3	26.8
70°-80°	508.6	16.8
80°-90°	53.0	1.8
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°	3025.0	100.0
0°-180°	3025.0	100.0

Coefficient of Utilization



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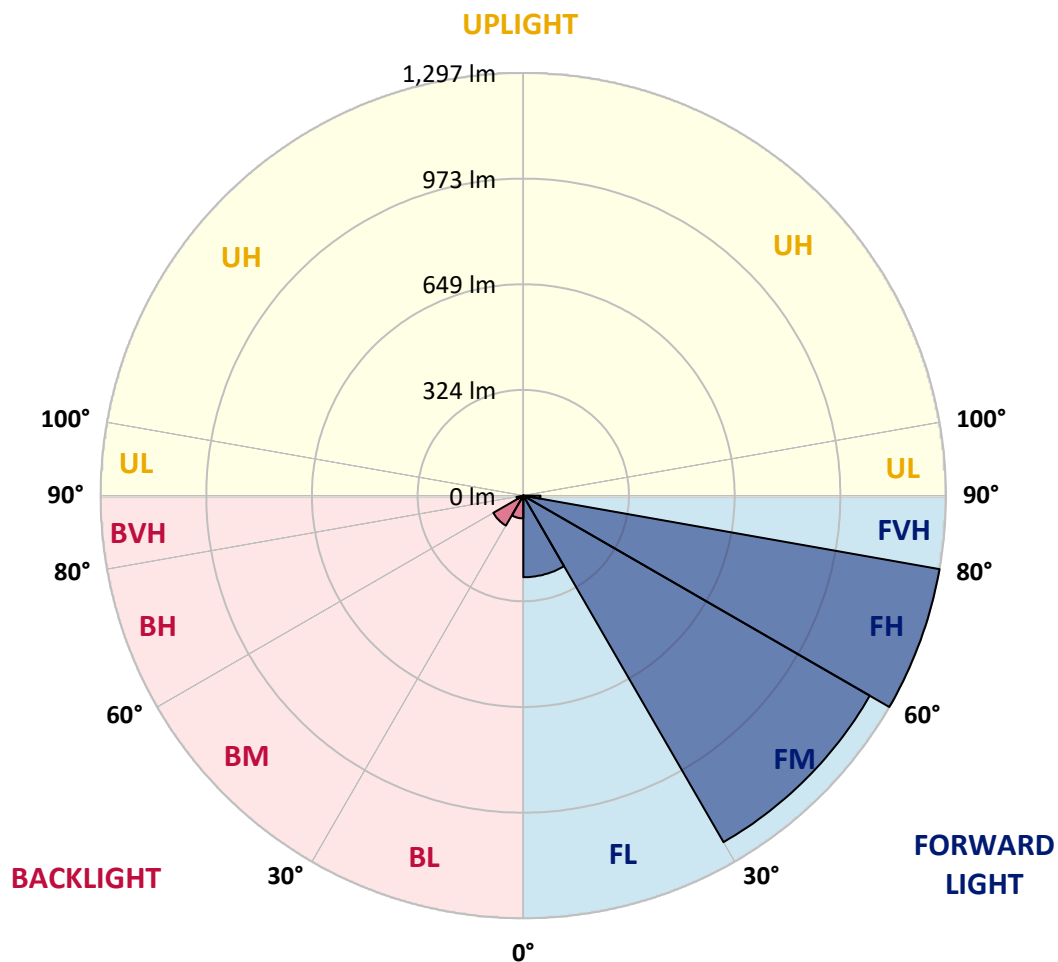
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	250.3	8.3			
FM	(30°-60°)	1227.8	40.6			
FH	(60°-80°)	1297.0	42.9			G1/1800
FVH	(80°-90°)	52.6	1.7			G1/100
BL	(0°-30°)	69.8	2.3	B0/110		
BM	(30°-60°)	106.1	3.5	B0/220		
BH	(60°-80°)	20.9	0.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	545.4	543.6	541.1	538.3	530.1	528.7	523.8	513.5	501.1	490.9	476.9
5°	571.2	572.2	570.4	565.3	559.4	556.0	549.9	533.8	517.7	497.2	474.2
7.5°	577.1	579.1	576.9	572.0	566.3	562.7	557.8	544.0	525.3	501.9	470.4
10°	576.5	578.9	577.5	573.0	568.4	564.9	559.6	548.6	533.6	509.0	471.6
12.5°	575.5	578.7	578.5	576.3	572.4	569.8	566.5	556.8	542.7	519.4	478.3
15°	572.6	576.7	580.3	582.2	582.4	582.4	578.3	567.9	554.5	533.0	487.0
17.5°	573.8	578.5	587.7	593.0	596.6	596.2	591.9	580.8	565.9	547.0	496.2
20°	581.4	587.7	600.5	611.0	614.7	613.5	607.8	594.8	577.9	559.0	505.1
22.5°	599.9	605.6	621.6	634.0	636.7	633.4	625.3	607.6	592.3	572.0	515.9
25°	627.5	634.2	649.1	658.4	658.4	656.6	645.2	624.5	608.6	590.1	529.9
27.5°	661.0	666.7	681.4	689.7	684.8	679.5	668.2	643.2	627.9	612.9	546.8
30°	695.0	698.7	714.1	717.8	712.7	706.0	693.8	668.8	655.4	643.8	571.2
32.5°	727.1	735.0	747.8	747.0	740.1	736.9	725.7	699.1	691.5	690.3	605.4
35°	759.2	765.3	776.7	779.6	773.5	772.9	764.7	745.0	745.2	753.1	658.6
37.5°	786.9	792.4	805.8	812.1	813.3	816.4	813.1	800.1	818.6	840.3	729.1
40°	810.0	817.8	834.8	845.8	858.4	869.6	870.2	873.1	910.3	947.7	821.2
42.5°	828.1	838.9	863.7	884.0	912.9	927.1	938.5	954.2	1016.8	1072.7	929.8
45°	851.7	864.1	895.0	926.9	972.1	995.4	1011.3	1053.2	1142.0	1218.2	1041.2
47.5°	890.7	897.3	928.8	975.3	1034.7	1068.0	1098.9	1162.3	1276.4	1344.7	1133.9
50°	941.0	945.2	969.0	1033.7	1110.5	1154.4	1210.7	1285.3	1415.8	1449.6	1186.3
52.5°	996.5	997.9	1015.8	1097.9	1195.5	1250.7	1313.8	1405.8	1529.4	1524.4	1221.1
55°	1060.9	1058.9	1074.1	1167.6	1296.1	1359.3	1432.7	1529.2	1628.0	1577.4	1241.0
57.5°	1134.7	1129.2	1144.0	1260.1	1425.0	1500.6	1575.2	1635.8	1704.5	1621.9	1250.5
60°	1211.9	1200.9	1218.6	1364.0	1576.8	1648.6	1710.6	1726.8	1785.0	1657.3	1234.1
62.5°	1273.5	1273.7	1306.6	1474.6	1732.9	1795.7	1828.7	1843.3	1854.3	1649.6	1147.5
65°	1369.7	1372.9	1425.6	1628.0	1913.6	1968.1	1990.7	1943.1	1857.3	1553.6	1017.4
67.5°	1468.9	1479.2	1575.6	1839.4	2122.4	2166.3	2137.2	1962.4	1774.4	1334.7	771.4
70°	1501.2	1518.3	1677.0	1985.0	2247.6	2270.4	2172.0	1872.4	1483.3	892.4	388.3
72.5°	1375.6	1403.2	1618.7	1931.9	2167.7	2148.0	1943.3	1570.3	943.0	338.9	118.5
75°	970.0	982.2	1345.3	1602.6	1743.5	1687.6	1478.2	1012.3	387.8	95.1	40.7
77.5°	500.9	495.0	800.1	1063.3	1243.4	1185.5	968.0	524.0	147.0	39.6	25.2
80°	259.0	263.2	346.2	557.2	759.0	698.5	516.1	242.9	78.3	22.0	19.3
82.5°	145.1	136.2	199.0	243.3	354.9	278.3	198.0	172.0	34.2	13.2	18.3
85°	26.4	27.6	109.2	131.5	123.2	78.3	63.8	114.9	10.0	7.3	12.8
87.5°	0.4	0.4	21.1	37.8	24.0	11.0	20.1	16.5	2.0	2.8	2.2
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°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	469.8	462.0	447.6	433.4	415.3	400.5	390.5	380.1	369.6	370.4	372.8
5°	461.6	448.2	419.8	389.7	360.8	334.8	309.2	286.2	276.9	268.3	268.7
7.5°	453.5	434.6	392.9	345.8	302.1	257.8	225.6	199.2	185.2	174.6	171.6
10°	449.8	424.8	368.3	303.5	241.5	193.1	151.8	130.3	113.6	108.3	109.8
12.5°	451.5	420.0	346.2	265.3	191.5	134.6	105.7	94.7	91.1	90.5	90.1
15°	454.5	416.5	324.4	223.0	140.7	100.0	88.8	86.8	86.4	86.0	86.2
17.5°	458.6	413.5	301.3	183.4	107.9	87.4	84.2	83.1	82.9	82.9	82.9
20°	462.7	410.0	275.4	148.0	90.1	82.5	80.5	79.9	79.7	79.7	79.5
22.5°	467.3	407.0	249.2	116.3	82.9	79.1	77.2	76.8	76.6	76.4	76.4
25°	474.0	403.1	221.4	95.1	78.5	75.8	74.0	73.6	73.4	72.6	72.8
27.5°	483.0	400.2	192.7	82.1	74.4	71.8	70.5	69.9	69.5	68.9	69.1
30°	495.2	397.8	162.2	75.0	69.7	67.5	66.3	65.9	65.5	64.8	64.8
32.5°	516.3	398.8	130.1	69.3	65.5	62.8	61.6	61.2	60.8	60.2	60.2
35°	548.0	404.7	104.1	64.4	60.4	57.7	56.5	56.5	55.9	55.1	54.9
37.5°	599.9	419.8	83.5	59.8	55.5	53.1	51.6	51.2	50.6	49.4	49.2
40°	661.0	443.1	70.3	55.1	51.0	48.6	47.4	46.1	44.5	43.3	43.1
42.5°	737.9	467.1	61.0	50.4	46.8	44.5	43.1	41.1	38.6	37.0	36.8
45°	818.0	489.1	54.7	46.1	42.7	40.9	39.2	36.0	32.9	30.9	30.7
47.5°	877.7	493.1	49.6	42.1	39.2	37.4	35.2	31.1	27.0	25.2	24.6
50°	906.0	473.4	44.3	38.0	35.8	33.7	30.9	26.2	21.8	19.5	19.1
52.5°	916.0	439.3	40.0	34.4	32.3	29.9	26.4	21.1	17.1	14.8	14.6
55°	911.9	396.2	36.2	30.9	28.3	25.4	22.0	16.9	12.6	10.8	10.4
57.5°	890.5	341.3	32.3	27.4	24.2	21.3	17.5	12.6	8.5	6.9	6.7
60°	833.0	266.5	28.5	23.6	20.5	17.5	13.8	8.9	5.3	3.9	3.9
62.5°	735.9	197.8	24.8	19.7	17.3	14.0	9.8	5.7	2.8	2.0	1.8
65°	614.9	146.0	20.7	16.7	14.4	11.0	6.9	3.5	1.4	0.6	0.4
67.5°	429.1	90.1	17.3	13.6	11.8	7.9	4.3	1.4	0.6	0.0	0.0
70°	194.9	42.9	13.2	10.4	8.9	5.7	2.2	0.8	0.4	0.0	0.0
72.5°	60.6	22.6	9.4	7.5	6.1	3.7	1.2	0.6	0.4	0.0	0.0
75°	28.1	14.4	5.9	4.1	3.5	1.8	0.8	0.4	0.2	0.0	0.0
77.5°	20.9	11.2	3.5	2.2	1.8	1.2	0.6	0.4	0.2	0.0	0.0
80°	18.3	5.7	2.0	1.4	1.0	0.8	0.4	0.2	0.0	0.0	0.0
82.5°	16.5	2.8	1.2	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
85°	8.9	1.6	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.6	0.4	0.4	0.2	0.2	0.2	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)