

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: P450851

Luminaire Tested: **GALN-SA1C-830-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4426 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57
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

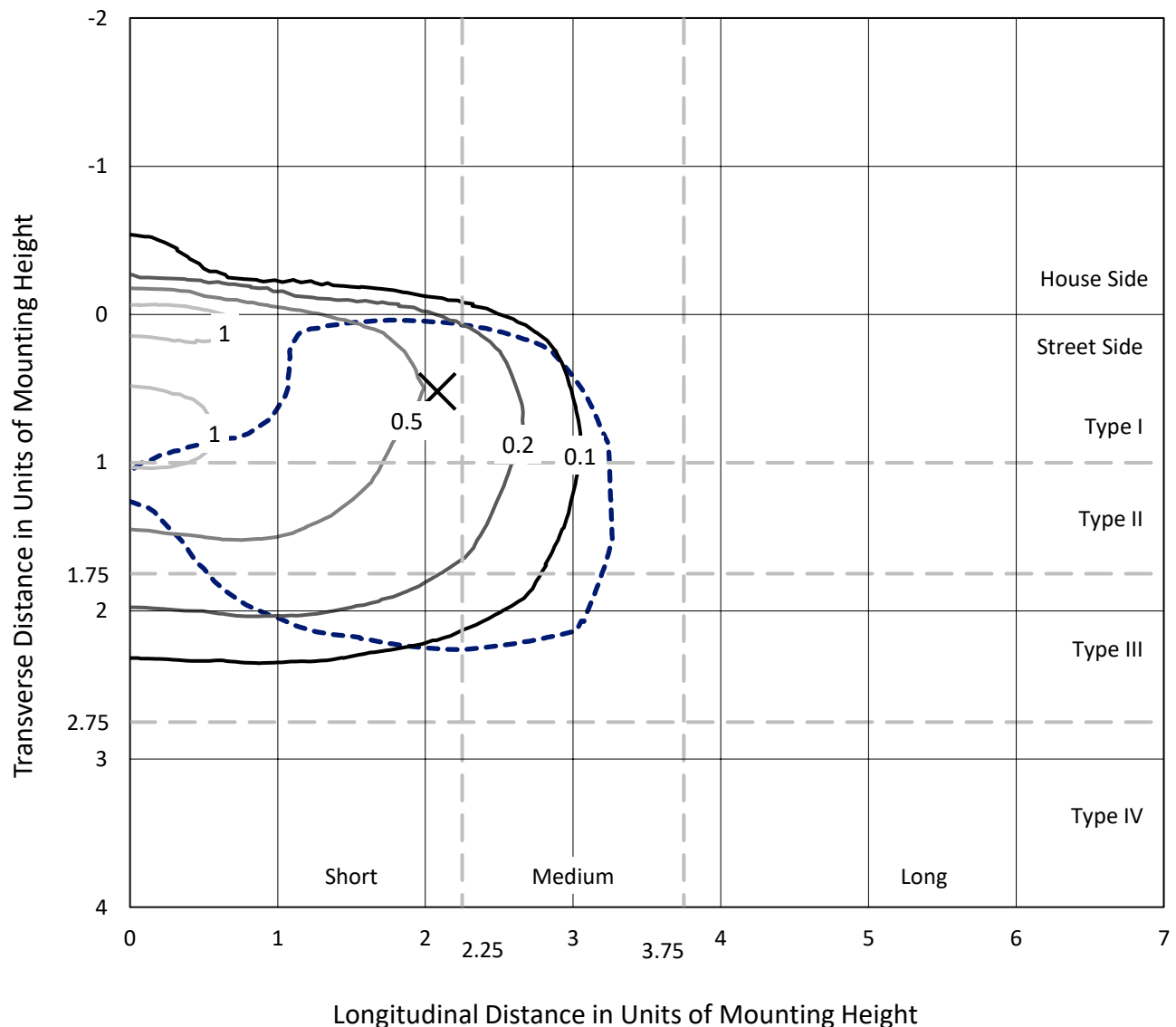


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Iso-Footcandle Lines of Horizontal Illumination

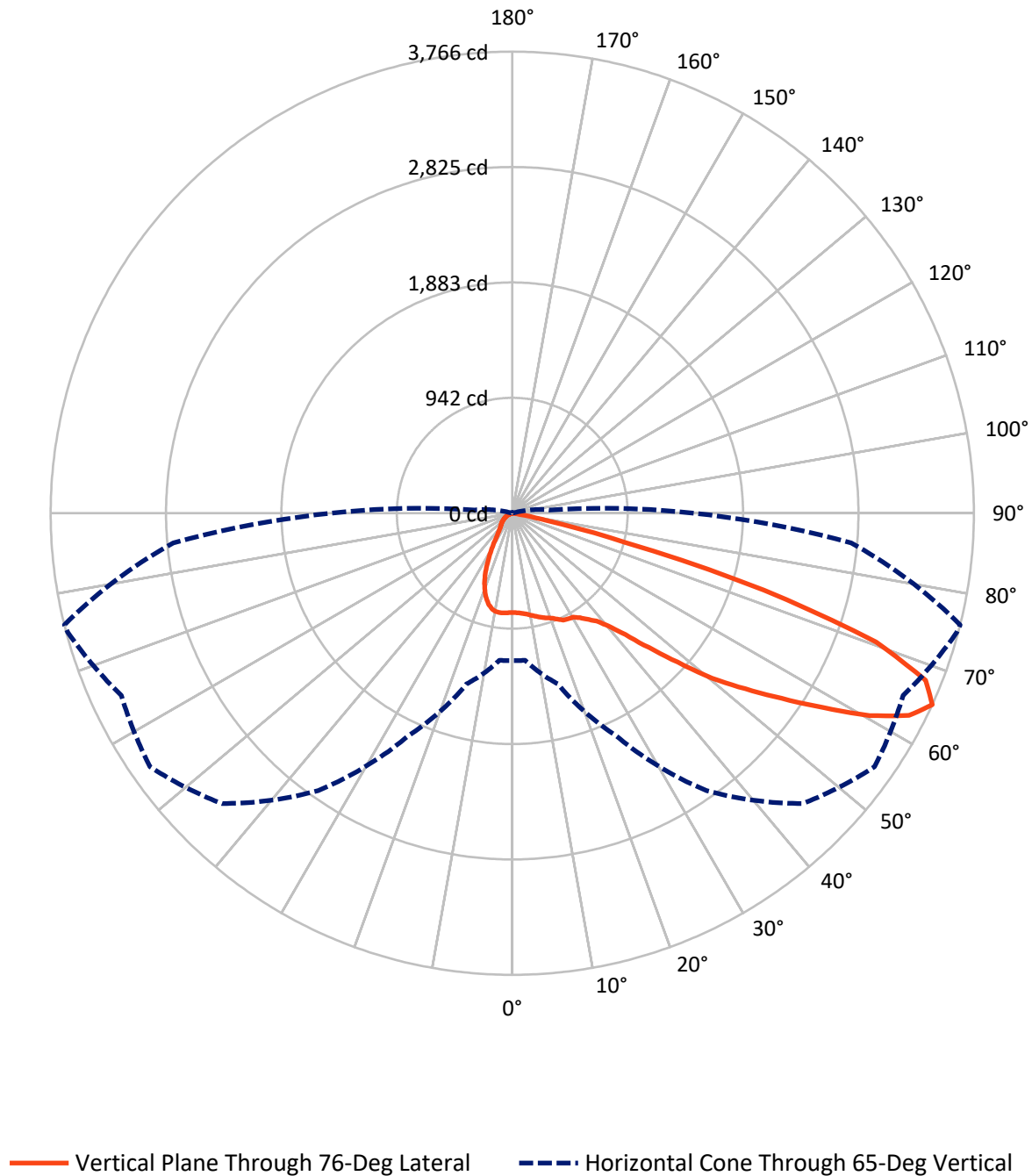
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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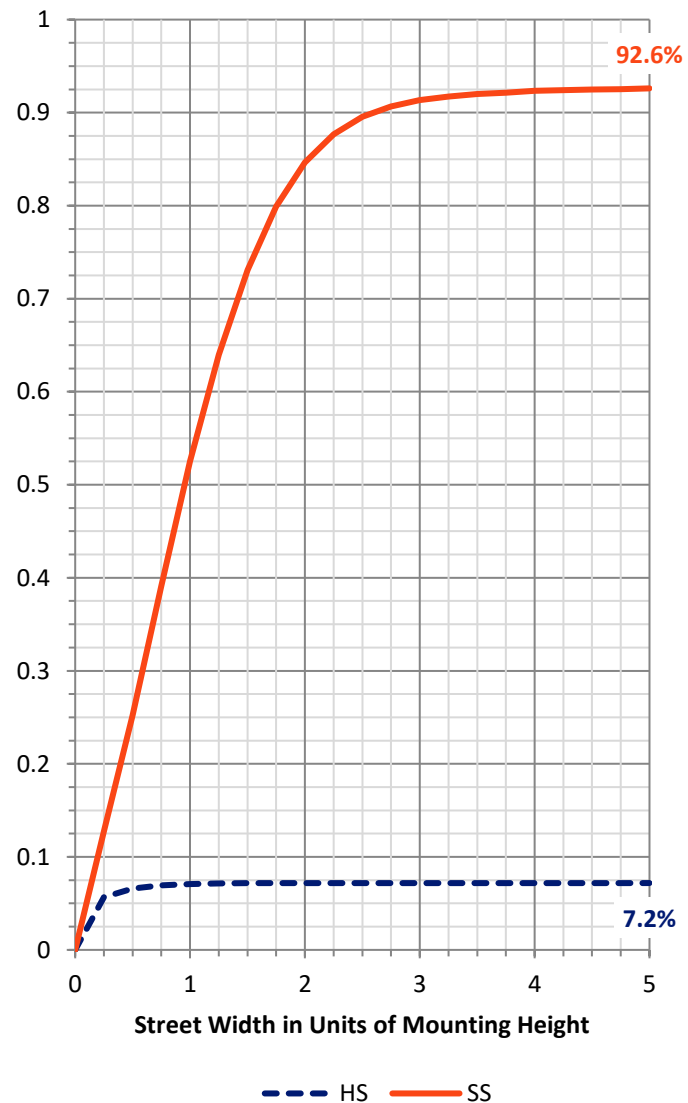
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	319.6	0.0	319.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4106.3	0.0	4106.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	4426.0	0.0	4426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.5
10°-20°	148.5	3.4
20°-30°	239.3	5.4
30°-40°	416.1	9.4
40°-50°	687.6	15.5
50°-60°	1062.1	24.0
60°-70°	1297.0	29.3
70°-80°	492.3	11.1
80°-90°	16.4	0.4
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°	4426.0	100.0
0°-180°	4426.0	100.0

Coefficient of Utilization



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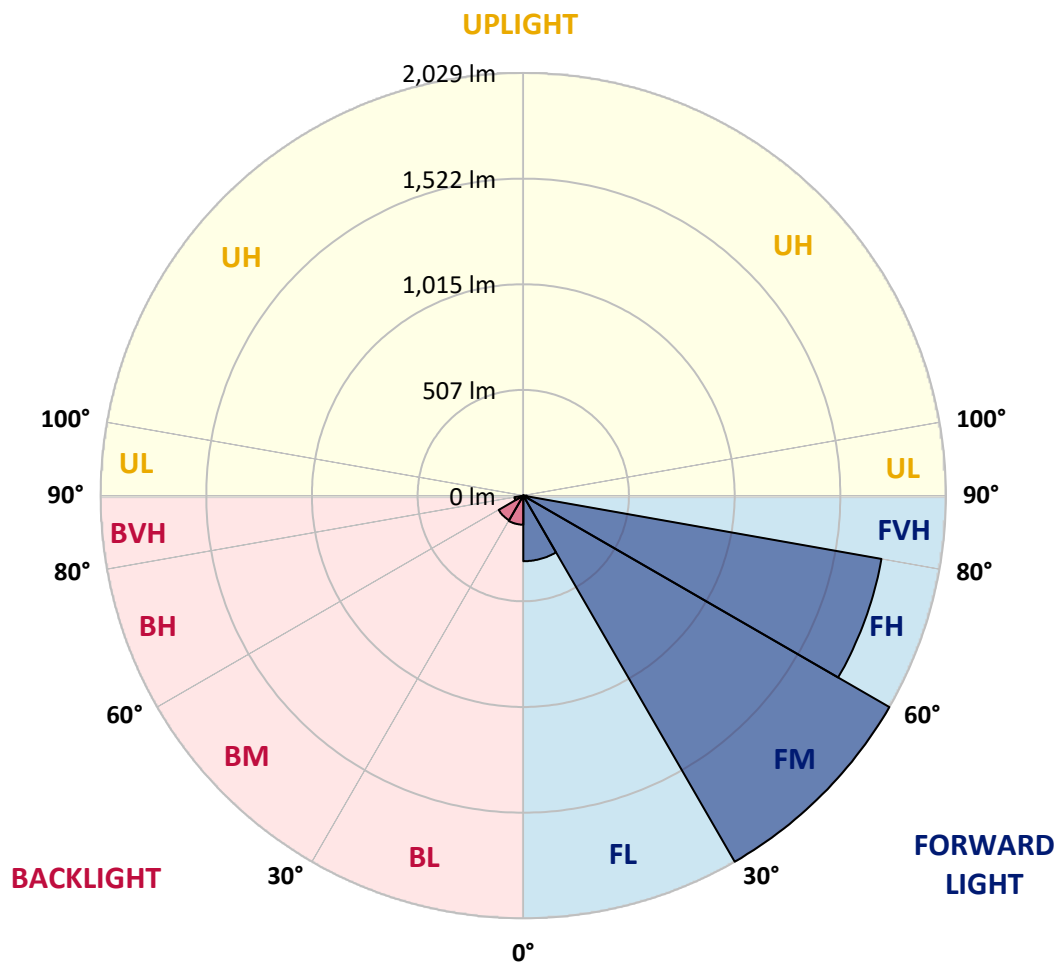
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.9	7.1			
FM	(30°-60°)	2029.4	45.9			
FH	(60°-80°)	1745.9	39.4			G1/1800
FVH	(80°-90°)	16.2	0.4			G1/100
BL	(0°-30°)	139.6	3.2	B1/500		
BM	(30°-60°)	136.4	3.1	B0/220		
BH	(60°-80°)	43.4	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7
2.5°	773.7	774.0	775.9	780.6	787.8	793.7	798.7	806.8	812.5	813.1	815.0
5°	720.3	716.5	720.3	732.5	743.4	760.0	780.3	800.6	818.7	820.0	828.7
7.5°	660.3	663.4	669.3	681.8	702.5	727.8	757.2	793.4	827.8	830.9	848.1
10°	599.4	606.2	615.9	635.0	663.7	696.5	736.5	788.4	842.2	846.5	876.2
12.5°	543.1	546.2	558.1	583.7	619.4	665.6	720.9	785.6	858.1	863.4	906.2
15°	500.0	504.0	514.4	537.5	577.2	636.5	708.1	784.7	873.7	881.2	936.2
17.5°	491.9	494.4	498.7	514.4	549.0	613.4	696.5	784.3	888.7	897.8	964.0
20°	525.3	523.1	518.7	517.2	536.2	595.6	688.1	786.8	903.1	913.4	993.4
22.5°	609.0	611.9	586.2	555.9	549.7	592.8	686.8	798.7	925.9	938.1	1026.2
25°	786.8	765.3	725.3	652.8	598.1	610.0	700.9	826.8	952.5	965.9	1055.9
27.5°	983.4	976.8	914.7	795.3	693.4	646.2	725.9	848.4	961.2	975.0	1072.8
30°	1176.5	1184.3	1113.1	981.2	831.8	713.4	749.3	856.5	969.0	983.4	1094.3
32.5°	1355.6	1364.9	1302.5	1171.8	995.0	829.7	789.7	888.1	1001.8	1016.5	1130.3
35°	1496.5	1497.8	1450.6	1346.5	1173.1	970.9	876.8	943.4	1046.2	1063.4	1168.4
37.5°	1625.9	1624.0	1568.7	1479.0	1321.5	1111.2	986.5	1007.1	1096.8	1114.6	1223.4
40°	1721.8	1723.1	1705.2	1620.9	1459.9	1240.9	1073.4	1066.8	1181.8	1209.6	1303.4
42.5°	1785.9	1797.4	1806.2	1763.4	1634.0	1400.6	1206.8	1194.6	1329.3	1352.4	1416.5
45°	1837.7	1858.4	1902.1	1899.9	1801.2	1596.5	1389.9	1364.9	1538.4	1563.1	1560.6
47.5°	1875.6	1896.5	1969.0	2012.7	1958.4	1786.5	1620.3	1598.7	1788.1	1814.9	1719.6
50°	1894.9	1919.9	2012.4	2097.1	2081.2	1969.6	1882.7	1884.0	2089.6	2115.5	1904.0
52.5°	1849.6	1882.1	2035.5	2188.0	2219.0	2144.9	2128.7	2169.9	2358.0	2380.2	2070.5
55°	1704.9	1745.9	2004.0	2265.5	2378.7	2351.8	2408.0	2470.8	2651.5	2665.8	2241.5
57.5°	1613.4	1656.8	1910.9	2331.5	2570.5	2611.8	2700.8	2746.8	2954.3	2990.8	2437.7
60°	1536.2	1570.3	1834.3	2345.5	2765.5	2929.9	3016.4	3063.9	3328.0	3351.7	2653.6
62.5°	1407.8	1446.8	1704.9	2247.4	2863.6	3184.6	3363.9	3342.7	3617.0	3633.6	2786.1
65°	1201.2	1204.6	1442.4	2000.9	2762.4	3349.9	3608.0	3518.9	3755.2	3766.4	2775.8
67.5°	896.5	929.7	1109.6	1572.8	2333.3	3208.6	3687.0	3523.6	3668.0	3636.7	2555.5
70°	577.5	602.8	752.2	1090.6	1682.4	2677.7	3424.9	3282.1	3219.3	3149.9	2091.8
72.5°	266.6	299.1	446.9	623.1	997.8	1907.4	2780.2	2666.5	2317.1	2145.9	1329.6
75°	116.2	124.4	220.6	328.7	467.8	1008.7	1833.1	1655.2	1046.5	955.9	532.2
77.5°	70.9	76.2	115.6	176.2	183.7	384.4	987.5	722.2	323.4	285.3	144.4
80°	48.1	54.1	84.1	92.2	62.8	107.2	370.6	192.8	65.3	62.5	30.9
82.5°	23.4	29.7	62.2	51.6	27.2	34.4	107.8	41.2	19.1	17.8	10.9
85°	3.4	5.9	35.0	33.7	12.2	8.1	19.1	10.3	6.6	6.2	5.0
87.5°	0.0	0.0	11.9	5.3	1.2	1.2	2.2	2.2	2.5	2.2	2.5
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°	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7	809.7
2.5°	815.9	817.5	811.5	803.1	794.0	785.0	772.2	760.6	753.7	757.8	747.8
5°	830.6	829.3	813.7	788.1	754.0	713.1	672.5	637.8	626.5	609.7	607.8
7.5°	850.9	847.5	814.3	755.6	678.7	601.9	526.9	477.2	448.7	424.7	425.3
10°	879.3	869.3	807.2	698.4	571.9	455.9	360.3	294.7	266.2	257.2	250.0
12.5°	908.7	889.3	787.2	621.2	445.3	311.6	219.1	179.1	161.6	155.9	155.3
15°	935.0	904.3	752.2	528.4	323.7	199.1	149.4	136.2	134.1	134.4	134.1
17.5°	960.9	916.2	703.7	430.0	220.0	142.8	128.4	125.3	126.2	127.5	127.2
20°	982.5	918.7	641.9	328.1	155.6	125.3	120.6	120.0	120.9	121.9	121.9
22.5°	1005.9	920.6	568.4	227.2	127.2	116.6	114.1	114.1	115.3	116.6	116.9
25°	1023.4	910.3	480.6	163.1	112.2	108.1	106.9	107.2	108.4	109.1	108.7
27.5°	1026.2	881.2	387.5	125.0	101.9	97.8	96.6	97.8	96.2	97.2	96.6
30°	1028.7	844.3	293.1	105.3	92.5	86.2	84.4	82.5	81.2	79.7	79.4
32.5°	1036.5	800.9	214.1	94.7	83.7	76.9	72.5	67.2	63.1	61.9	61.6
35°	1040.0	748.7	157.2	86.2	75.9	68.4	60.6	53.1	47.2	45.0	46.6
37.5°	1053.1	698.1	121.9	80.0	69.1	59.7	49.7	40.3	34.7	33.4	34.1
40°	1080.0	643.1	102.2	74.7	63.1	51.6	39.4	30.3	26.6	25.3	25.0
42.5°	1123.1	588.4	90.9	69.7	57.2	43.4	30.9	23.7	20.6	19.7	19.7
45°	1175.6	535.9	83.1	64.4	50.9	35.0	24.4	19.1	17.2	16.6	16.6
47.5°	1244.6	490.0	76.6	59.1	44.1	27.8	19.7	16.6	15.3	15.6	15.9
50°	1314.6	455.9	69.4	53.1	36.2	22.8	16.9	14.7	14.4	14.7	14.7
52.5°	1367.4	435.9	59.7	45.0	28.4	19.1	15.0	13.7	13.4	12.8	12.8
55°	1438.7	431.5	47.5	36.6	22.5	15.9	13.4	12.5	11.6	10.9	10.6
57.5°	1530.3	436.5	36.6	28.4	17.5	13.1	11.9	10.3	9.1	7.8	7.8
60°	1587.1	425.3	28.4	21.9	12.8	10.6	9.1	7.5	5.9	5.0	4.7
62.5°	1569.0	377.8	22.5	16.2	9.1	7.8	5.9	5.0	3.4	2.5	2.2
65°	1475.6	305.0	18.1	11.2	6.6	4.7	3.1	3.1	1.6	0.3	0.0
67.5°	1291.5	225.9	14.4	7.5	3.7	2.2	1.6	0.9	0.0	0.0	0.0
70°	1051.2	163.1	11.2	4.7	2.2	1.6	0.6	0.3	0.0	0.0	0.0
72.5°	667.5	93.4	8.7	2.8	1.6	0.6	0.0	0.0	0.0	0.0	0.0
75°	258.1	36.6	5.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	73.1	17.2	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.1	7.5	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.1	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.3	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.3	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)