

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: P953077

Luminaire Tested: **GALN-SB6D-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43743 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 440.1
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

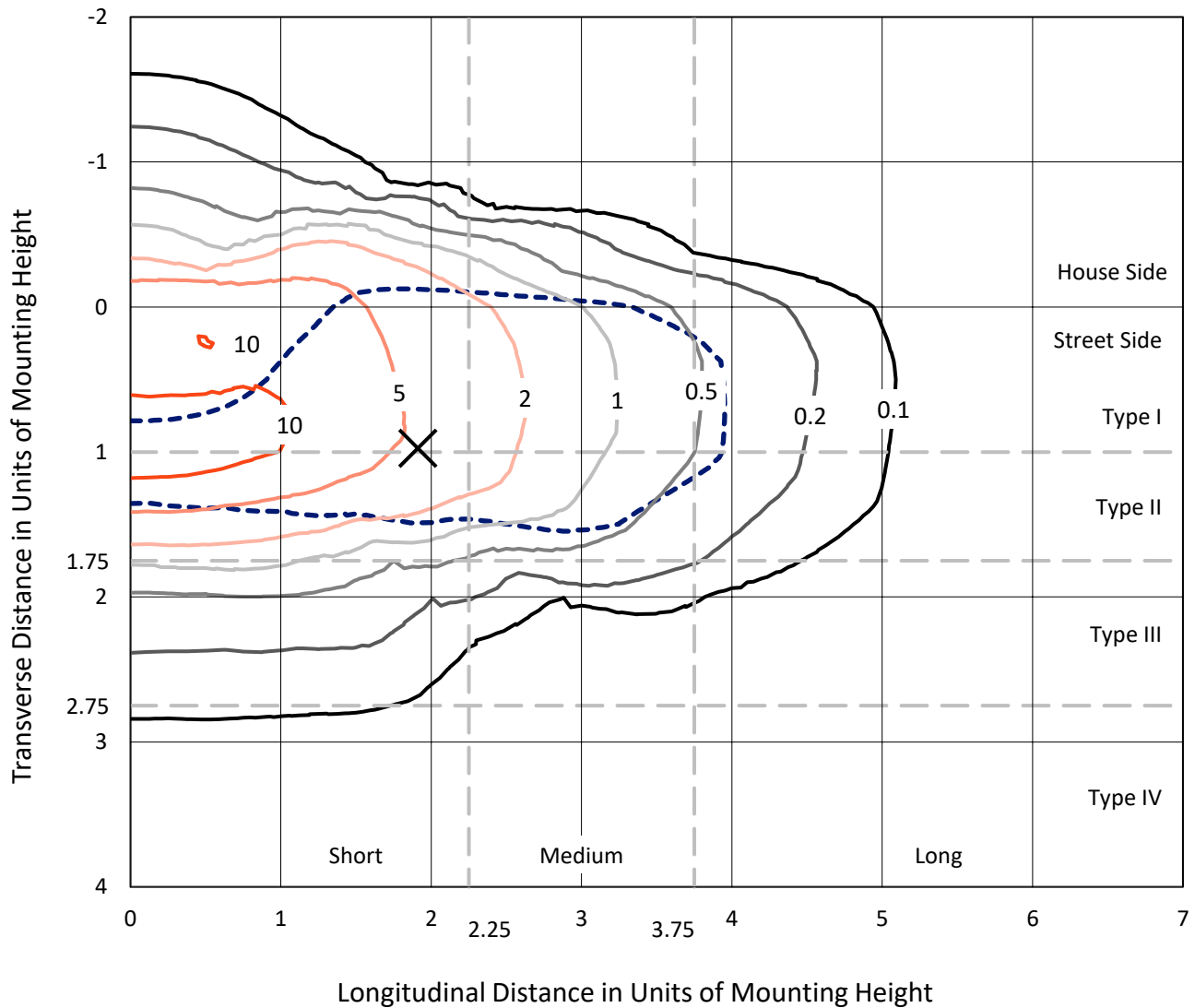


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Iso-Footcandle Lines of Horizontal Illumination

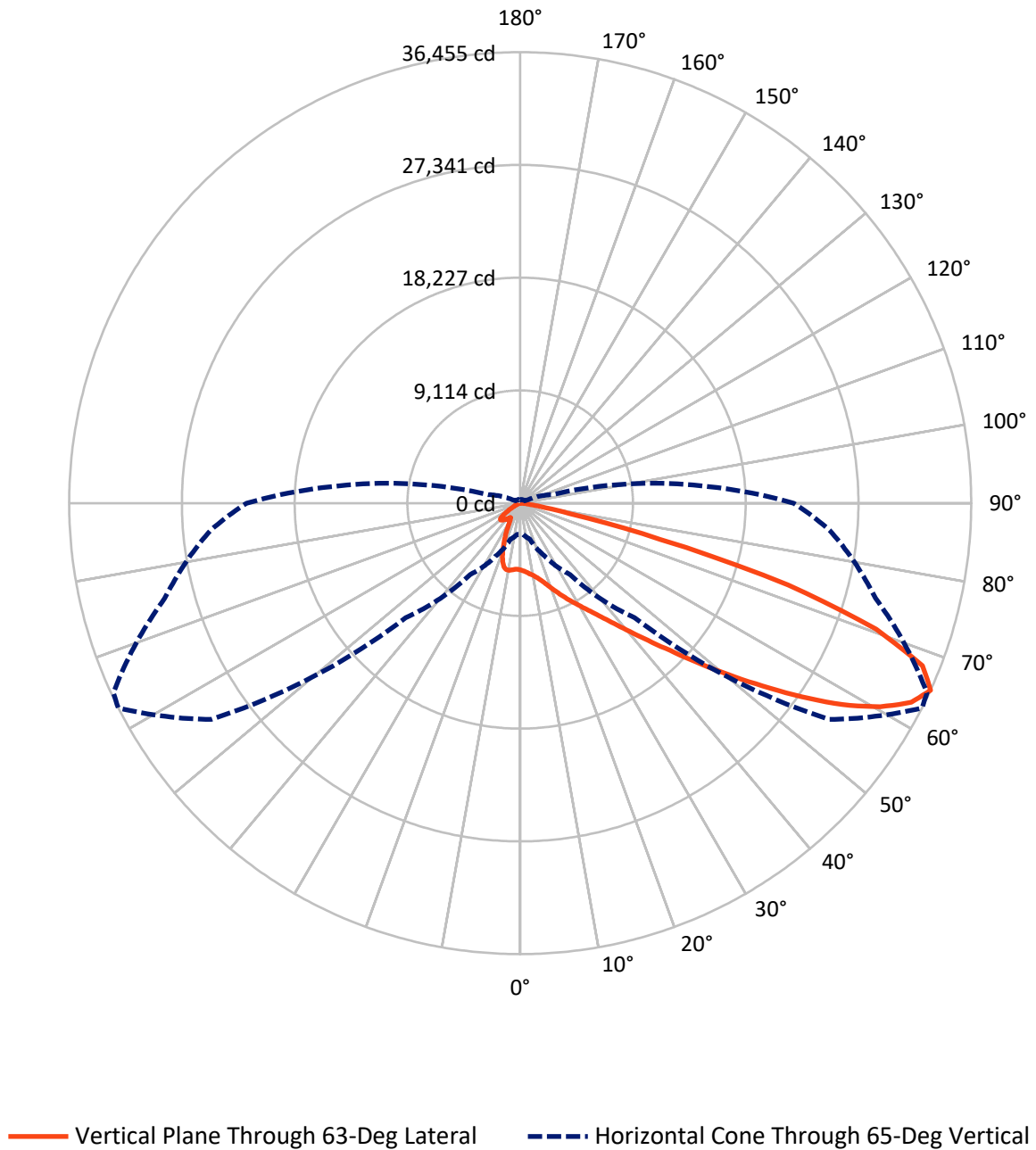
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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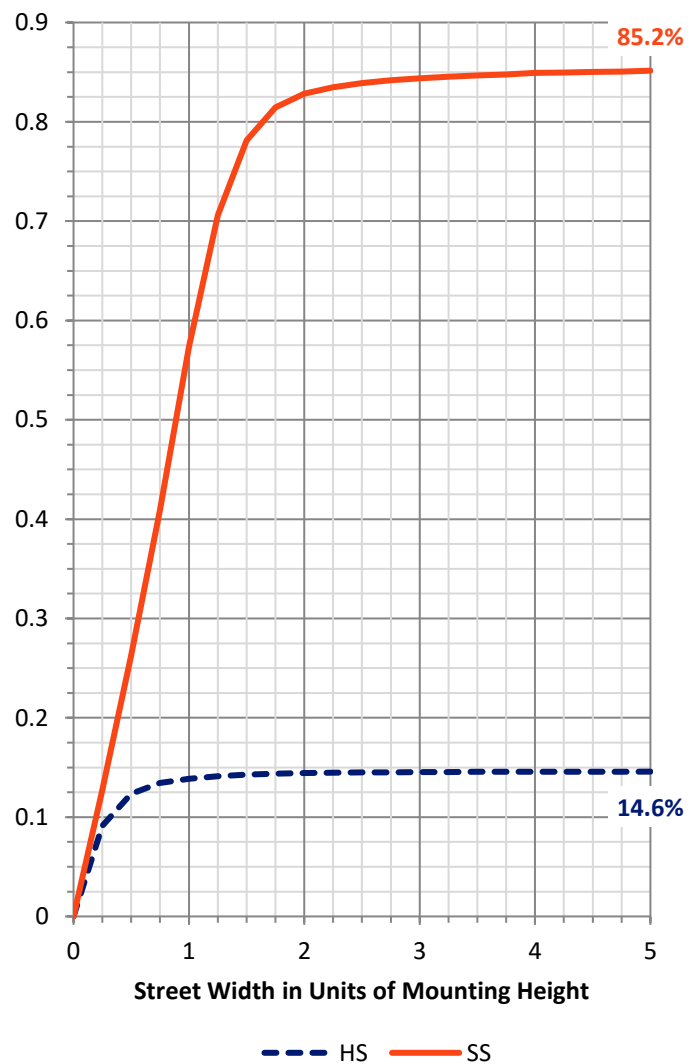
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6429.9	0.0	6429.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	37313.1	0.0	37313.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	43743.0	0.0	43743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.7	1.2
10°-20°	1411.4	3.2
20°-30°	2457.5	5.6
30°-40°	4429.4	10.1
40°-50°	8784.9	20.1
50°-60°	11966.5	27.4
60°-70°	9551.6	21.8
70°-80°	4322.3	9.9
80°-90°	310.7	0.7
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°	43743.0	100.0
0°-180°	43743.0	100.0

Coefficient of Utilization



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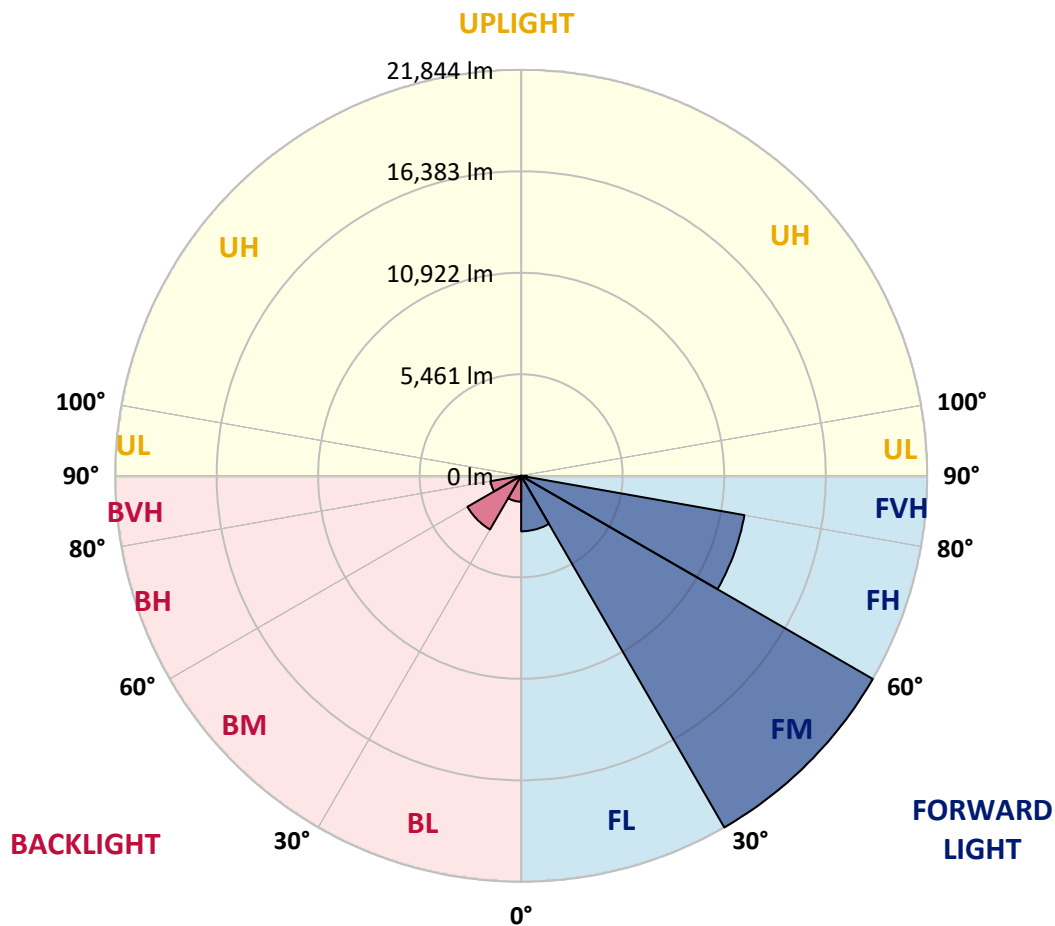
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2986.0	6.8			
FM	(30°-60°)	21844.2	49.9			
FH	(60°-80°)	12195.3	27.9			G5
FVH	(80°-90°)	287.6	0.7			G3/500
BL	(0°-30°)	1391.5	3.2	B3/2500		
BM	(30°-60°)	3336.7	7.6	B3/5000		
BH	(60°-80°)	1678.6	3.8	B3/2500		G3/2500
BVH	(80°-90°)	23.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7
2.5°	5525.1	5510.1	5531.1	5522.1	5516.1	5504.0	5498.0	5492.0	5480.0	5470.9	5434.8
5°	5540.2	5531.1	5552.2	5570.2	5588.3	5606.4	5615.4	5627.4	5615.4	5591.3	5555.2
7.5°	5413.8	5407.7	5452.9	5507.0	5588.3	5657.5	5732.7	5774.9	5777.9	5768.9	5729.7
10°	5404.7	5389.7	5434.8	5501.0	5606.4	5729.7	5862.1	5952.4	5964.5	6003.6	5961.5
12.5°	5546.2	5531.1	5594.3	5666.5	5774.9	5904.3	6066.8	6193.2	6211.2	6265.4	6235.3
15°	5783.9	5762.8	5835.1	5928.4	6066.8	6214.2	6385.8	6500.1	6515.2	6581.4	6527.2
17.5°	6060.8	6039.7	6124.0	6223.3	6373.7	6575.4	6774.0	6900.4	6918.4	6960.5	6861.2
20°	6415.9	6388.8	6455.0	6545.3	6704.8	6945.5	7183.2	7363.8	7360.8	7360.8	7198.3
22.5°	6828.1	6786.0	6843.2	6915.4	7065.9	7357.8	7673.8	7887.4	7887.4	7803.2	7535.3
25°	7270.5	7228.4	7291.6	7357.8	7490.2	7821.2	8191.4	8456.2	8468.2	8323.8	7896.4
27.5°	7824.2	7770.1	7818.2	7896.4	7974.7	8311.7	8751.1	9058.0	9064.1	8841.4	8239.5
30°	8889.5	8736.0	8585.6	8501.3	8537.4	8871.5	9340.9	9681.0	9711.1	9404.1	8612.7
32.5°	10839.6	10809.5	10279.8	9587.7	9226.6	9473.3	10000.0	10409.2	10427.3	10033.1	9097.2
35°	13869.9	13833.8	12982.2	11664.1	10487.5	10279.8	10800.4	11284.9	11272.9	10827.5	9726.1
37.5°	17487.1	17454.0	16331.6	14568.1	12663.2	11498.6	11832.6	12341.2	12416.4	11832.6	10538.6
40°	20577.7	20454.3	19744.1	18043.9	15552.1	13520.9	13301.2	13638.2	13716.5	13024.3	11570.8
42.5°	22918.9	22813.6	22452.5	21390.2	19049.0	16512.1	15031.5	15160.9	15248.2	14417.6	12756.5
45°	24131.7	24107.6	24252.1	24152.8	22612.0	20183.5	17505.2	16966.5	16999.6	15961.4	14101.7
47.5°	24303.2	24291.2	24950.2	25883.1	25675.5	24324.3	20680.0	19217.5	19100.1	17703.8	15564.2
50°	23292.1	23268.0	24531.9	26280.4	27721.8	27803.1	24285.2	21754.3	21495.5	19506.4	17089.9
52.5°	20063.1	20057.1	22133.5	25043.5	28441.0	30848.5	27848.2	24541.0	24107.6	21414.3	18702.9
55°	15437.8	15549.1	17929.5	21369.2	27129.0	32314.0	31047.1	27634.5	26969.5	23334.2	20189.5
57.5°	10935.9	11098.4	13451.6	16515.1	23060.4	31447.4	33210.8	30734.1	30017.9	25248.2	21697.2
60°	5874.2	6018.6	8374.9	12031.2	17156.1	28215.3	34351.3	33424.5	32747.4	27065.8	23057.4
62.5°	3499.8	3548.0	4523.0	7767.0	11603.9	21555.7	33866.8	35473.8	34917.1	28591.5	24240.0
65°	2512.8	2521.8	3012.3	4742.7	7044.8	13096.5	30469.3	36454.9	36283.3	29741.1	25115.8
67.5°	2115.5	2109.5	2314.2	3150.8	4799.9	6560.3	23352.3	35067.6	35795.8	30469.3	25612.3
70°	1814.6	1823.6	2064.4	2308.1	3608.2	3713.5	11609.9	30532.5	32085.3	30661.9	25582.2
72.5°	1351.2	1381.3	1604.0	2103.5	2723.4	2554.9	4008.4	22639.1	25446.8	28889.4	24255.1
75°	954.0	969.0	1128.5	1769.5	2031.3	1859.8	2046.3	11703.2	15302.4	22148.6	19852.5
77.5°	734.3	761.4	854.6	1236.8	2001.2	1306.0	1251.9	4050.5	6223.3	13379.4	13611.1
80°	397.2	445.4	616.9	893.8	1405.4	923.9	619.9	1613.0	2109.5	6256.4	5248.2
82.5°	204.6	228.7	430.3	644.0	800.5	806.5	307.0	671.1	869.7	1932.0	719.2
85°	81.3	99.3	288.9	355.1	412.3	397.2	138.4	270.8	313.0	535.7	219.7
87.5°	18.1	30.1	105.3	81.3	78.2	84.3	33.1	63.2	60.2	63.2	39.1
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°	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7	5398.7
2.5°	5431.8	5419.8	5386.7	5350.6	5308.4	5284.4	5269.3	5266.3	5245.2	5230.2	5245.2
5°	5522.1	5510.1	5446.9	5371.6	5290.4	5227.2	5167.0	5112.8	5034.6	5019.5	5013.5
7.5°	5702.7	5669.6	5567.2	5464.9	5311.4	5127.9	4905.2	4649.4	4420.7	4351.5	4318.4
10°	5925.3	5880.2	5750.8	5570.2	5230.2	4730.6	4192.0	3692.4	3295.2	3183.9	3141.7
12.5°	6178.1	6139.0	5967.5	5633.4	4890.1	3984.3	3159.8	2539.9	2154.7	2058.4	2031.3
15°	6479.1	6421.9	6184.1	5537.1	4282.3	3027.4	2169.7	1802.6	1664.2	1646.1	1628.0
17.5°	6798.0	6704.8	6376.7	5191.1	3463.7	2151.7	1676.2	1570.9	1510.7	1492.6	1483.6
20°	7089.9	6969.6	6491.1	4667.4	2588.0	1676.2	1501.6	1432.4	1378.3	1357.2	1345.2
22.5°	7381.9	7210.3	6491.1	3954.2	1941.0	1486.6	1378.3	1315.1	1251.9	1224.8	1209.7
25°	7685.8	7457.1	6376.7	3159.8	1561.8	1363.2	1260.9	1191.7	1137.5	1104.4	1092.4
27.5°	7980.7	7664.7	6114.9	2407.5	1390.3	1254.9	1152.6	1086.4	1035.2	1011.1	1011.1
30°	8260.6	7869.4	5747.8	1826.7	1279.0	1149.6	1053.3	996.1	944.9	920.9	923.9
32.5°	8639.7	8128.2	5356.6	1498.6	1182.7	1050.3	963.0	908.8	863.7	845.6	845.6
35°	9166.4	8510.3	5019.5	1471.6	1101.4	969.0	881.7	830.6	785.4	770.4	770.4
37.5°	9912.7	9127.3	4842.0	1652.1	1035.2	896.8	815.5	761.4	719.2	707.2	704.2
40°	10833.5	9963.8	4938.3	1832.7	990.1	833.6	755.3	701.2	665.1	650.0	647.0
42.5°	11925.9	10996.0	5470.9	1971.1	960.0	779.4	698.2	638.0	613.9	607.9	607.9
45°	13180.8	12130.6	6286.5	2118.6	911.8	728.3	641.0	595.8	577.8	574.8	571.8
47.5°	14607.2	13376.4	7231.4	2302.1	863.7	680.1	595.8	565.8	550.7	544.7	544.7
50°	16021.6	14631.3	8203.4	2404.4	824.6	635.0	559.7	535.7	523.6	520.6	520.6
52.5°	17502.2	15922.3	8988.8	2308.1	791.5	598.9	529.6	511.6	499.5	496.5	496.5
55°	18913.6	16966.5	9124.2	1959.1	725.2	562.7	496.5	487.5	472.5	472.5	469.5
57.5°	20129.3	17490.1	8167.3	1438.5	659.0	508.6	463.4	454.4	442.4	439.4	436.4
60°	21245.8	17339.7	6304.5	969.0	586.8	454.4	421.3	415.3	403.2	388.2	385.2
62.5°	21874.7	16677.6	4312.3	632.0	514.6	397.2	373.2	370.1	343.1	313.0	307.0
65°	22112.5	15317.4	2690.3	460.4	430.3	340.1	322.0	316.0	276.9	243.8	240.7
67.5°	21904.8	13078.5	1357.2	364.1	340.1	282.9	264.8	264.8	237.7	207.6	204.6
70°	21074.2	9804.4	571.8	291.9	261.8	216.7	216.7	228.7	201.6	168.5	165.5
72.5°	19271.7	6596.4	303.9	222.7	195.6	153.5	177.5	186.6	159.5	126.4	126.4
75°	15320.4	4023.5	210.7	165.5	123.4	108.3	135.4	141.4	108.3	84.3	81.3
77.5°	10478.4	2311.2	141.4	105.3	78.2	63.2	93.3	87.3	57.2	39.1	42.1
80°	4601.2	963.0	81.3	48.1	30.1	24.1	33.1	24.1	18.1	12.0	12.0
82.5°	538.7	225.7	30.1	18.1	12.0	6.0	3.0	0.0	0.0	0.0	0.0
85°	111.3	27.1	15.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	6.0	3.0	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)