

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: P943316

Luminaire Tested: **GALN-SB7D-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52644 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 512.8
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

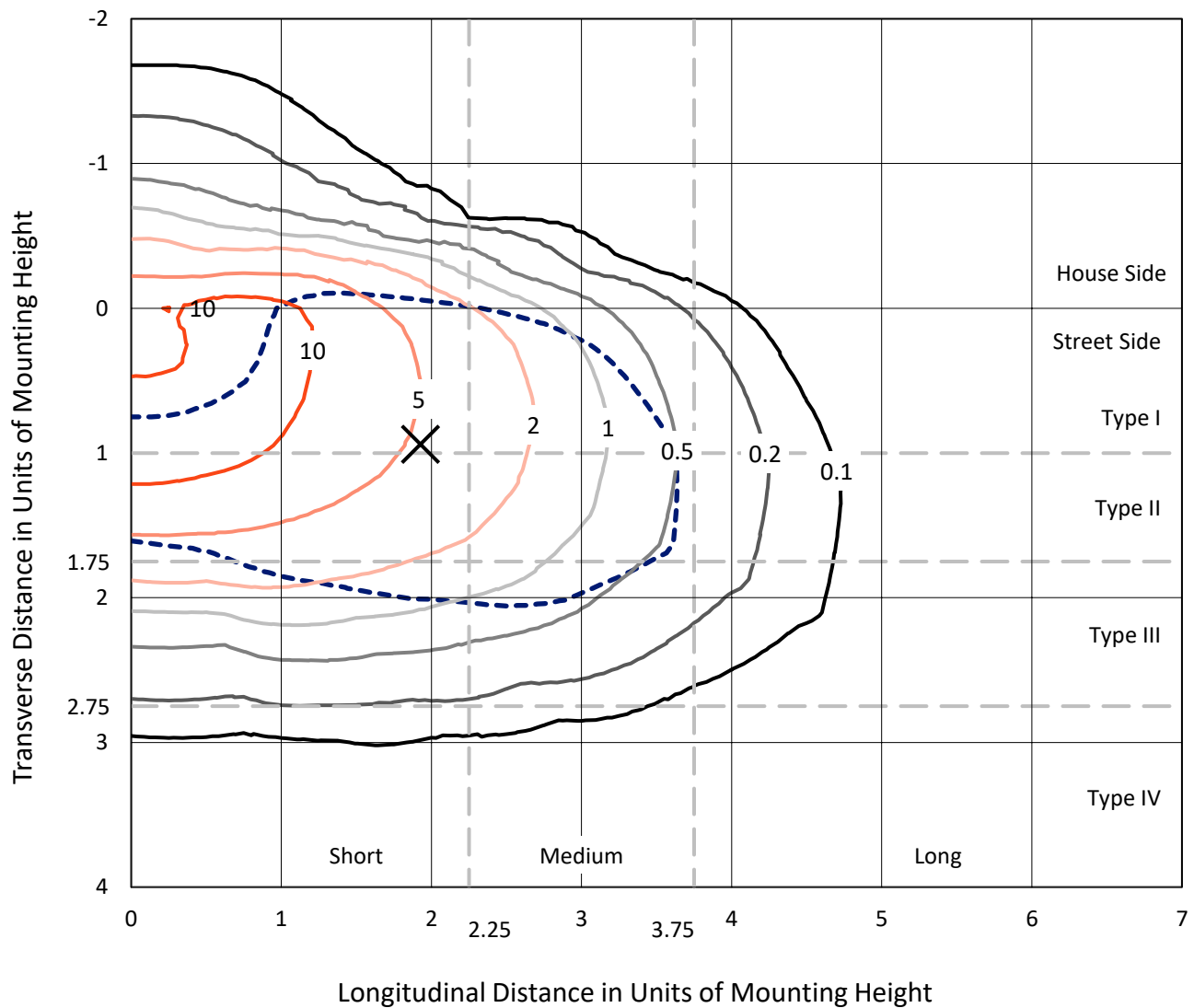


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

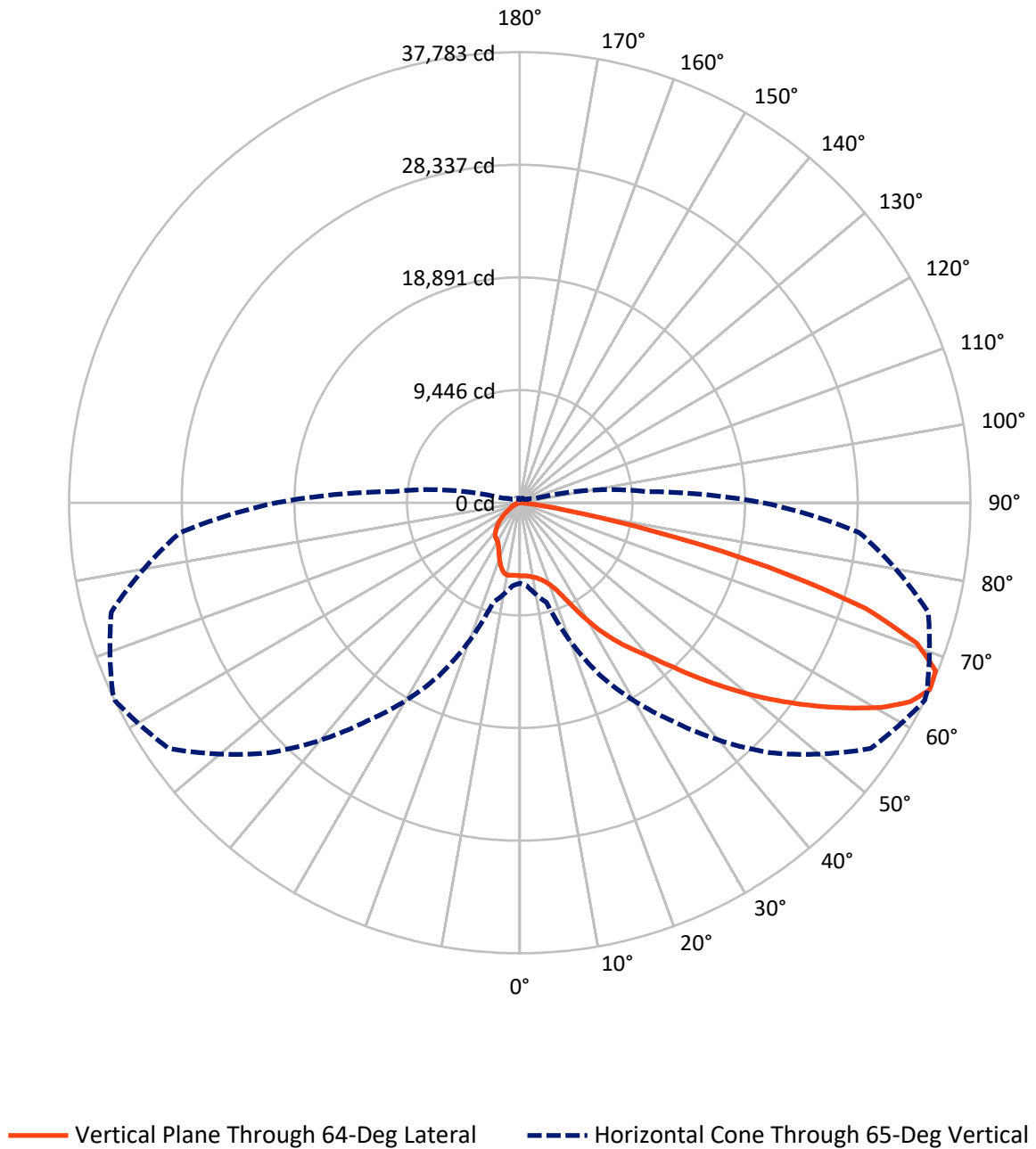


Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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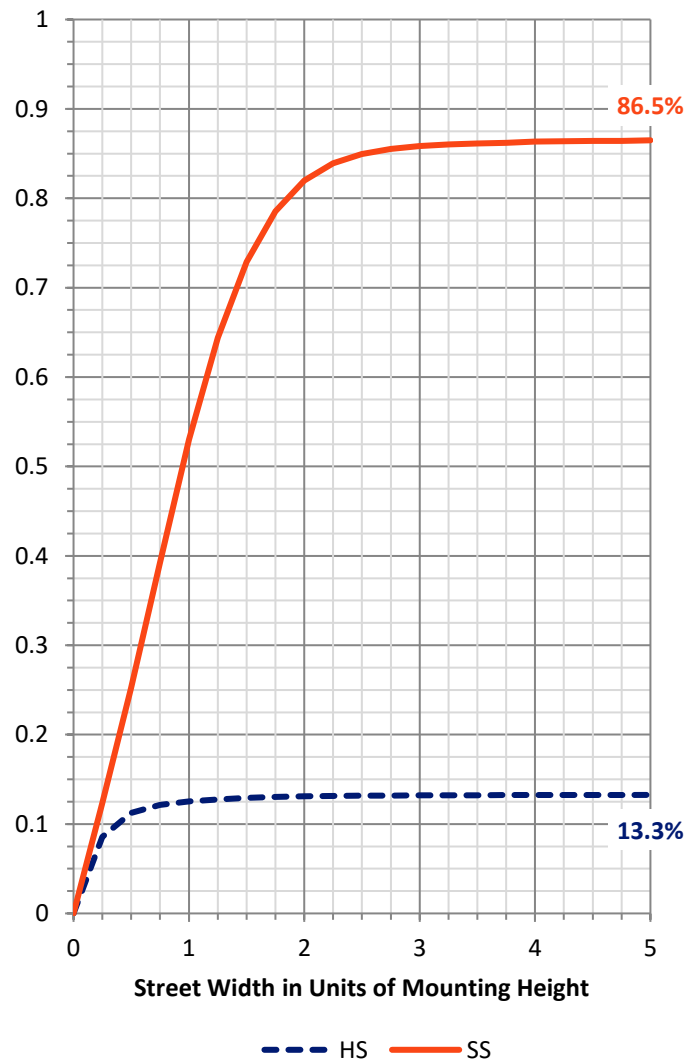
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7040.1	0.0	7040.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	45603.9	0.0	45603.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	52644.0	0.0	52644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.9	1.1
10°-20°	1532.2	2.9
20°-30°	2903.4	5.5
30°-40°	5875.1	11.2
40°-50°	10008.3	19.0
50°-60°	13610.5	25.9
60°-70°	12780.9	24.3
70°-80°	5120.6	9.7
80°-90°	248.1	0.5
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°	52644.0	100.0
0°-180°	52644.0	100.0

Coefficient of Utilization



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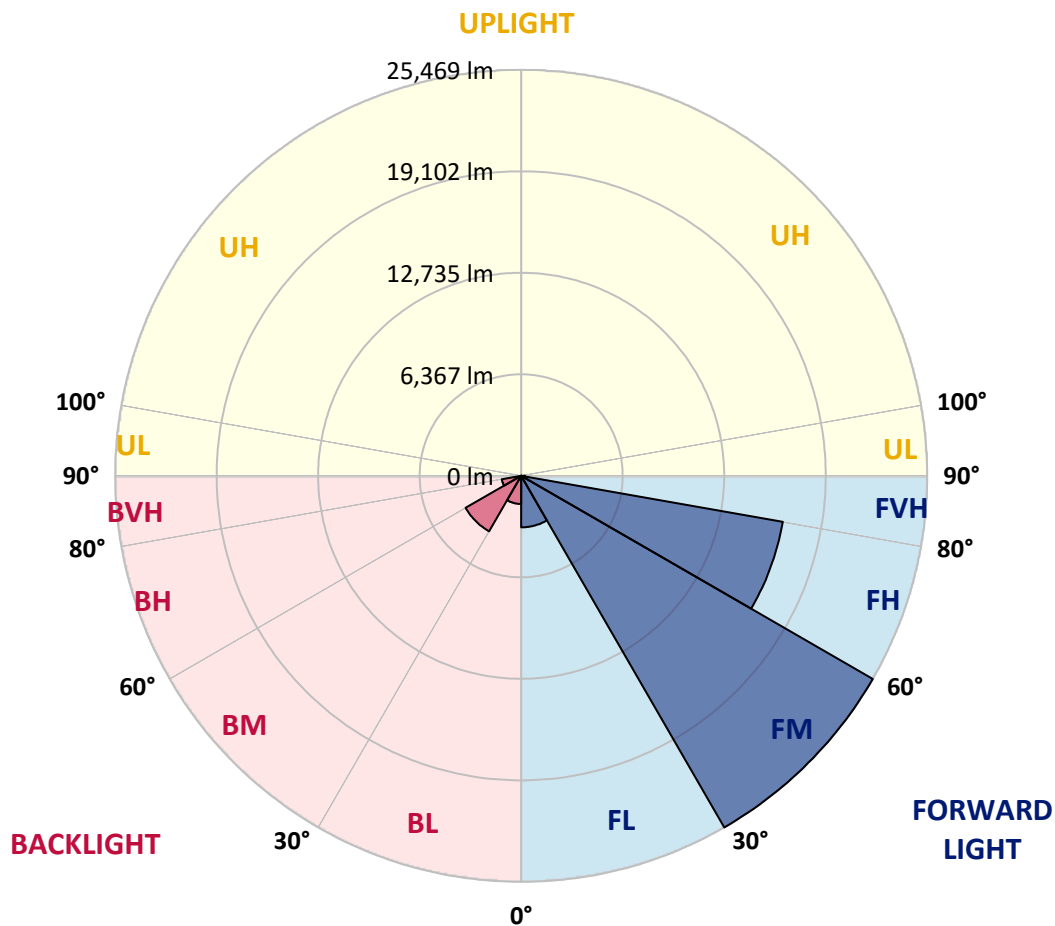
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3232.9	6.1			
FM	(30°-60°)	25469.1	48.4			
FH	(60°-80°)	16665.9	31.7			G5
FVH	(80°-90°)	236.0	0.4			G3/500
BL	(0°-30°)	1767.6	3.4	B3/2500		
BM	(30°-60°)	4024.8	7.6	B3/5000		
BH	(60°-80°)	1235.7	2.3	B3/2500		G3/2500
BVH	(80°-90°)	12.1	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0
2.5°	6101.9	6144.2	6133.6	6123.0	6119.5	6126.6	6130.1	6126.6	6126.6	6126.6	6130.1
5°	5985.4	6020.7	6020.7	6045.4	6080.7	6123.0	6154.8	6161.9	6168.9	6179.5	6176.0
7.5°	5763.1	5791.3	5812.5	5893.7	5981.9	6094.8	6190.1	6239.5	6246.6	6285.4	6299.5
10°	5611.3	5646.6	5681.9	5766.6	5893.7	6063.0	6225.4	6345.4	6363.0	6454.8	6497.1
12.5°	5604.3	5639.6	5685.4	5777.2	5925.4	6105.4	6303.0	6476.0	6507.7	6641.8	6730.1
15°	5678.4	5720.7	5763.1	5876.0	6034.8	6253.6	6465.4	6680.6	6712.4	6903.0	6998.3
17.5°	5830.1	5886.6	5918.4	6031.3	6200.7	6444.2	6723.0	6970.0	6998.3	7220.6	7340.6
20°	6130.1	6197.2	6207.7	6299.5	6465.4	6726.5	7058.3	7365.3	7400.6	7654.7	7788.8
22.5°	6751.2	6846.5	6761.8	6807.7	6955.9	7217.1	7577.0	7965.3	8014.7	8304.0	8424.0
25°	7845.3	7979.4	7760.6	7682.9	7746.4	8018.2	8469.9	8960.5	9016.9	9249.9	9309.8
27.5°	9994.5	9821.6	9489.8	9165.2	8974.6	9129.9	9638.1	10245.1	10315.7	10541.5	10470.9
30°	12355.5	12203.7	11755.5	11035.6	10583.9	10559.2	11028.5	11706.1	11787.3	12002.6	11787.3
32.5°	14720.0	14575.3	14088.3	13202.5	12419.0	12030.8	12355.5	13107.2	13149.5	13287.2	12969.6
35°	17045.7	16897.5	16410.5	15503.5	14540.0	13657.7	13594.2	14441.2	14455.3	14600.0	14127.1
37.5°	19385.5	19262.0	18743.2	17853.9	16904.5	15687.0	15097.6	15704.6	15722.3	15863.4	15372.9
40°	21054.8	21107.7	20751.3	20063.1	19247.9	17917.4	16784.6	17049.2	16943.4	17179.8	16886.9
42.5°	22487.6	22593.5	22282.9	21937.1	21464.2	20292.5	18873.8	18827.9	18658.5	18785.6	18482.1
45°	23726.4	23814.6	23535.8	23454.6	23444.0	22621.7	21157.1	20881.9	20645.4	20620.7	20257.2
47.5°	24181.6	24351.0	24471.0	24742.7	25272.1	24926.3	23518.1	23091.1	22826.4	22632.3	22057.1
50°	24354.5	24534.5	24943.9	25734.4	26987.3	27135.5	25868.5	25388.6	25063.9	24711.0	23864.0
52.5°	24121.6	24442.8	24993.3	26323.8	28141.3	28907.1	28123.7	27703.7	27333.1	26757.9	25501.5
55°	22748.8	23069.9	24195.7	26316.7	28716.5	30149.4	30255.2	30068.2	29651.8	28744.8	26824.9
57.5°	19854.9	20331.3	22113.5	25420.3	28706.0	31218.7	32344.5	32478.6	32012.8	30714.0	27866.0
60°	15845.8	16491.6	18665.6	23433.4	27820.1	31797.5	34176.1	34846.6	34352.6	32655.1	28709.5
62.5°	11056.8	11804.9	13862.4	20320.7	25794.4	31381.0	35513.7	36752.4	36378.3	34391.4	29034.2
65°	6744.2	6984.2	8642.8	15990.5	22350.0	29637.6	35926.6	37782.9	37659.4	35453.7	28554.2
67.5°	4492.6	4693.7	5170.2	10965.0	17349.2	26154.4	34938.4	37602.9	37638.2	35280.7	26796.7
70°	2706.8	2879.8	3190.3	6377.1	11243.8	20701.9	31878.6	35309.0	35513.7	32969.2	23465.2
72.5°	1115.2	1231.7	1514.0	2890.4	5823.1	13139.0	25385.0	30315.2	30791.7	27721.3	18009.2
75°	631.7	691.7	889.3	1450.5	2526.9	6123.0	15376.4	21520.6	22222.9	19106.7	10834.4
77.5°	420.0	448.2	575.2	938.7	1422.2	2089.2	6571.2	11212.1	12553.1	10435.6	4690.2
80°	282.3	307.0	395.3	628.2	924.6	896.4	2092.8	4153.8	5110.2	3585.6	1143.4
82.5°	190.6	194.1	282.3	412.9	585.8	434.1	617.6	1291.7	1623.4	1037.6	434.1
85°	109.4	105.9	208.2	240.0	261.2	180.0	187.0	388.2	508.2	437.6	247.0
87.5°	14.1	21.2	81.2	63.5	35.3	38.8	38.8	67.1	98.8	105.9	52.9
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°	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0	6123.0
2.5°	6130.1	6126.6	6116.0	6105.4	6080.7	6066.6	6073.6	6066.6	6063.0	6066.6	6080.7
5°	6176.0	6165.4	6137.2	6101.9	6052.5	5992.5	5953.6	5897.2	5844.2	5812.5	5819.5
7.5°	6299.5	6288.9	6250.1	6151.3	5992.5	5741.9	5512.5	5311.3	5159.6	5071.4	5074.9
10°	6497.1	6479.5	6419.5	6200.7	5784.2	5237.2	4782.0	4404.4	4157.3	4040.9	4030.3
12.5°	6730.1	6708.9	6603.0	6154.8	5389.0	4534.9	3906.7	3486.8	3257.4	3155.0	3144.5
15°	7005.3	6977.1	6768.9	5936.0	4813.7	3758.5	3183.3	2869.2	2721.0	2629.2	2632.7
17.5°	7347.7	7298.2	6892.4	5607.8	4189.1	3165.6	2738.6	2502.2	2371.6	2283.3	2276.3
20°	7792.3	7711.2	6991.2	5216.1	3613.8	2791.5	2438.6	2241.0	2142.2	2064.5	2050.4
22.5°	8413.5	8297.0	7111.2	4792.6	3208.0	2533.9	2216.3	2071.6	1990.4	1902.2	1888.1
25°	9182.8	9045.2	7259.4	4400.8	2929.2	2311.6	2054.0	1934.0	1838.7	1736.3	1725.7
27.5°	10259.2	10012.1	7435.9	4079.7	2689.2	2121.0	1905.7	1771.6	1662.2	1577.5	1559.9
30°	11459.1	11053.2	7591.2	3885.6	2470.4	1944.6	1711.6	1577.5	1475.2	1415.2	1404.6
32.5°	12595.5	12044.9	7693.5	3800.9	2272.8	1743.4	1499.9	1355.2	1277.5	1259.9	1270.5
35°	13668.3	12941.3	7682.9	3719.7	2096.3	1542.2	1291.7	1143.4	1083.4	1094.0	1094.0
37.5°	14903.5	13897.7	7608.8	3592.7	1951.6	1358.7	1111.7	981.1	928.2	931.7	945.8
40°	16339.9	15002.3	7562.9	3352.7	1792.8	1189.3	963.5	857.6	818.8	804.6	801.1
42.5°	17871.5	16071.7	7570.0	3080.9	1595.2	1037.6	861.1	772.9	737.6	727.0	723.5
45°	19410.2	17091.6	7580.6	2798.6	1386.9	921.1	787.0	712.9	691.7	677.6	677.6
47.5°	20857.2	17959.8	7382.9	2495.1	1182.3	832.9	727.0	677.6	659.9	642.3	642.3
50°	22205.3	18538.5	6906.5	2142.2	1019.9	762.3	681.1	645.8	628.2	610.5	610.5
52.5°	23253.5	18630.3	6119.5	1778.7	907.0	709.4	652.9	621.1	600.0	582.3	578.8
55°	23719.3	18055.0	5000.8	1439.9	818.8	663.5	624.7	592.9	568.2	550.5	547.0
57.5°	23599.3	16844.5	3899.7	1157.6	734.1	617.6	589.4	568.2	540.0	511.7	508.2
60°	23009.9	15224.7	2939.8	963.5	656.4	568.2	550.5	532.9	494.1	451.7	444.7
62.5°	21990.0	13188.4	2096.3	797.6	571.7	511.7	504.7	490.5	434.1	356.4	349.4
65°	20430.1	10714.4	1411.7	663.5	490.5	448.2	451.7	427.0	352.9	264.7	257.6
67.5°	18150.3	7834.7	903.5	543.5	409.4	374.1	377.6	363.5	300.0	225.9	215.3
70°	15245.8	5187.8	589.4	412.9	328.2	289.4	310.6	314.1	254.1	183.5	176.5
72.5°	11176.8	3063.3	412.9	307.0	240.0	201.2	254.1	261.2	204.7	137.6	130.6
75°	6370.1	1454.0	310.6	222.3	148.2	141.2	197.6	197.6	141.2	91.8	84.7
77.5°	2675.1	607.0	218.8	144.7	84.7	81.2	134.1	123.5	70.6	42.3	42.3
80°	772.9	271.7	116.5	70.6	35.3	31.8	52.9	38.8	17.6	7.1	7.1
82.5°	303.5	120.0	45.9	28.2	14.1	14.1	7.1	0.0	0.0	0.0	0.0
85°	180.0	49.4	21.2	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	45.9	10.6	7.1	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)