

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: P955240

Luminaire Tested: **GALN-SB8B-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955240
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-SB8B-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 450mA 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: 34799 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 292.8
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

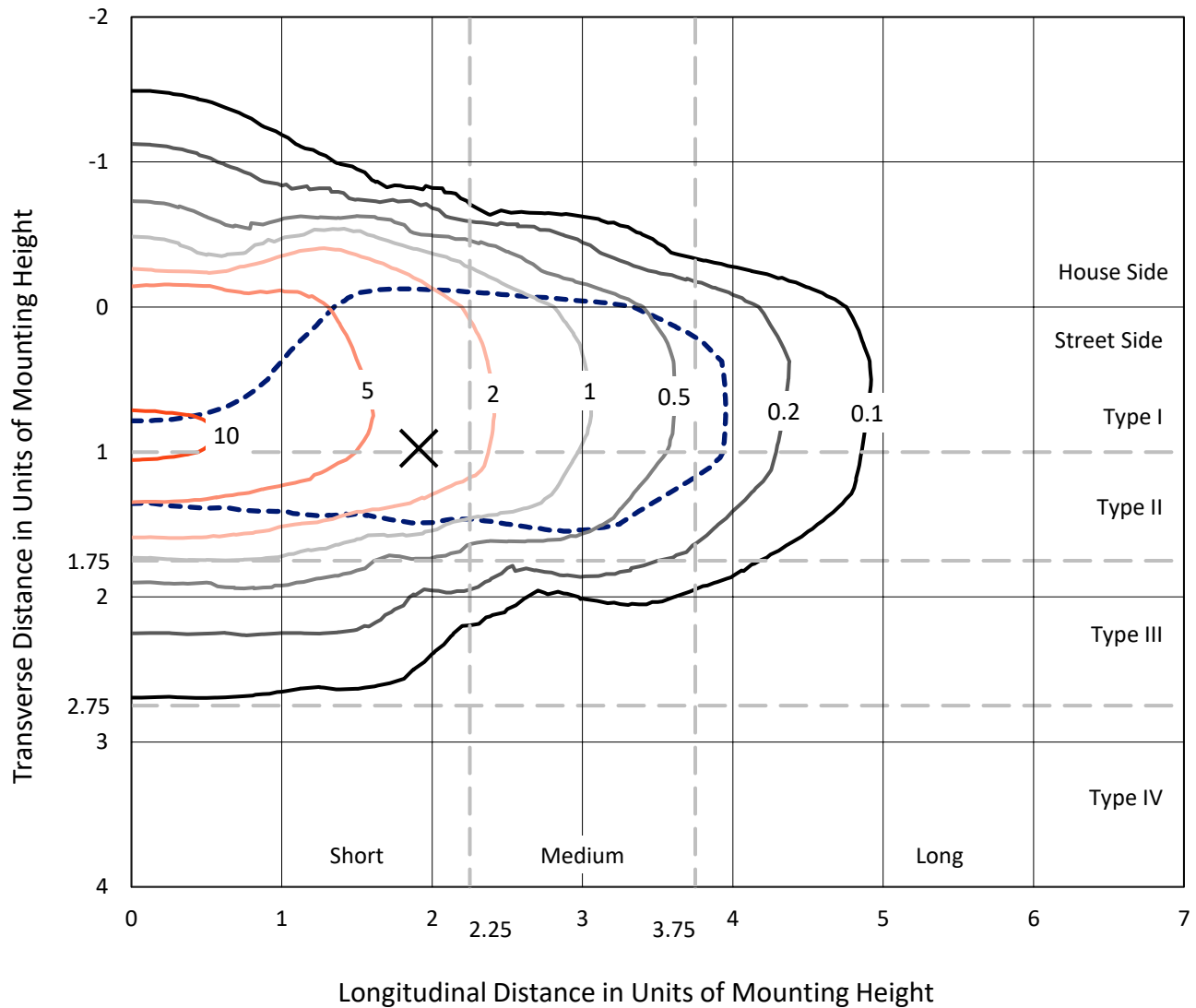


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Iso-Footcandle Lines of Horizontal Illumination

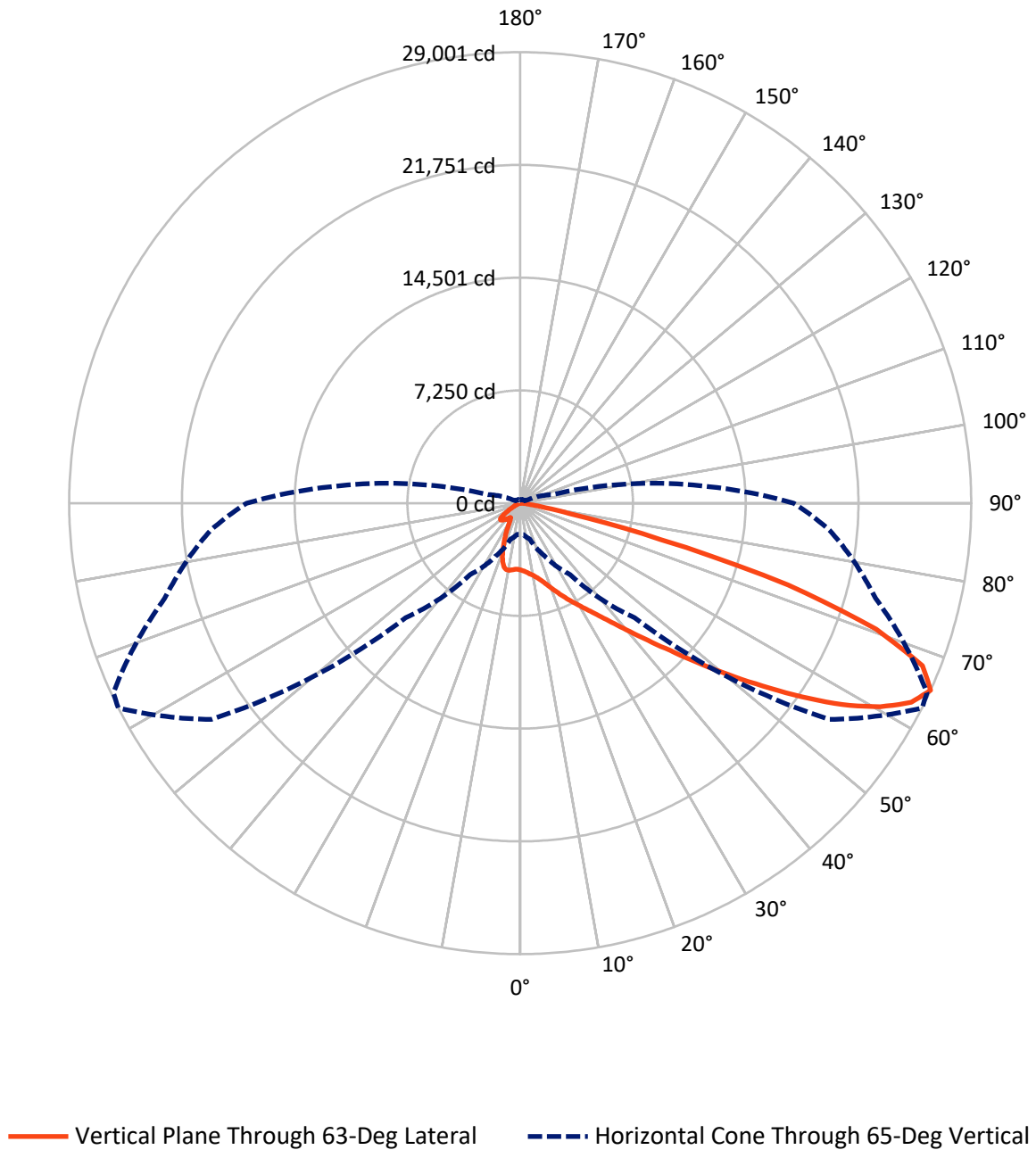
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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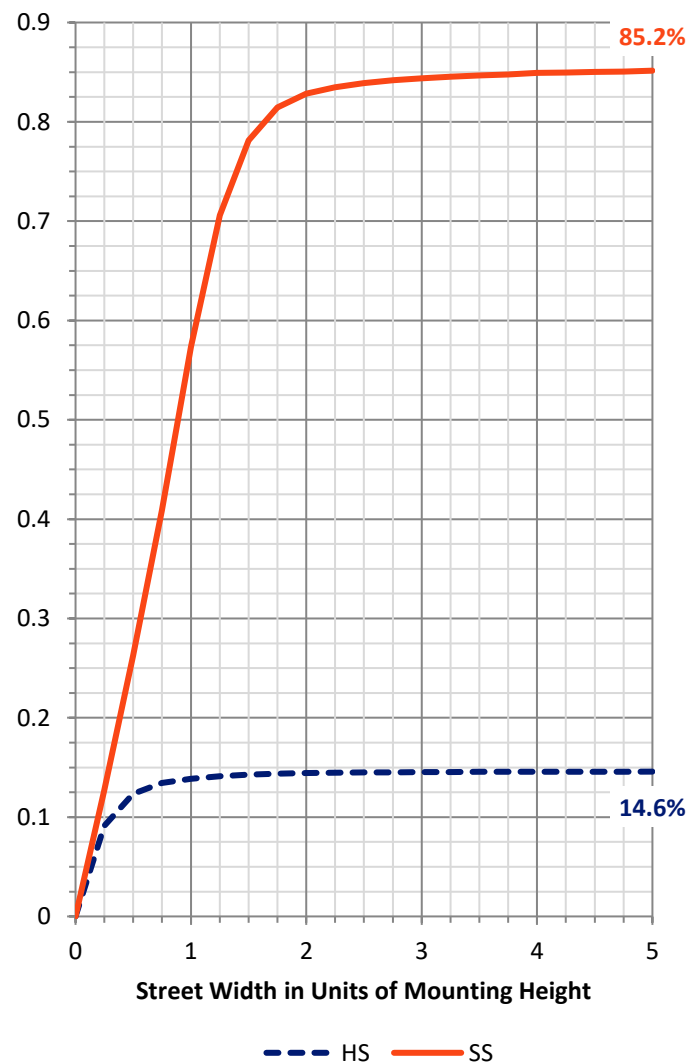
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5115.2	0.0	5115.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29683.8	0.0	29683.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	34799.0	0.0	34799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.7	1.2
10°-20°	1122.8	3.2
20°-30°	1955.0	5.6
30°-40°	3523.7	10.1
40°-50°	6988.7	20.1
50°-60°	9519.8	27.4
60°-70°	7598.6	21.8
70°-80°	3438.5	9.9
80°-90°	247.2	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°	34799.0	100.0
0°-180°	34799.0	100.0

Coefficient of Utilization



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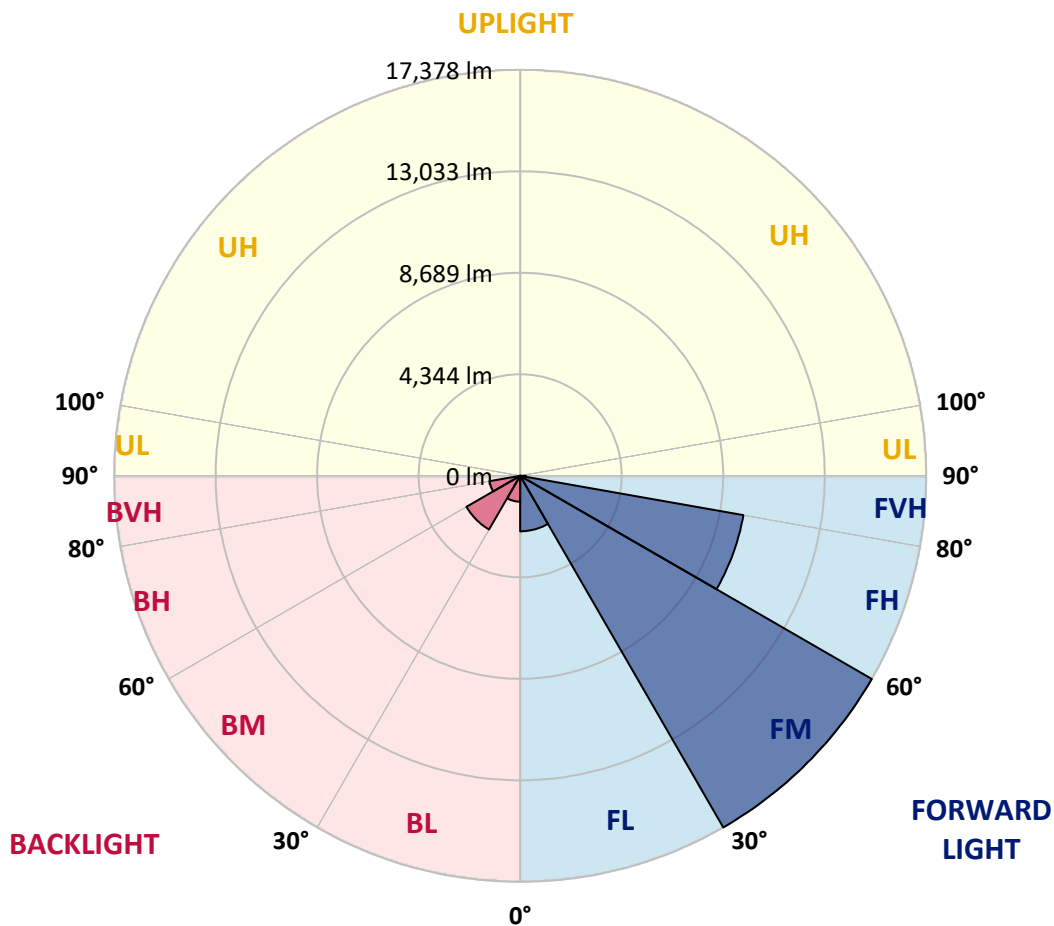
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2375.5	6.8			
FM	(30°-60°)	17377.7	49.9			
FH	(60°-80°)	9701.8	27.9			G4/12000
FVH	(80°-90°)	228.8	0.7			G3/500
BL	(0°-30°)	1107.0	3.2	B3/2500		
BM	(30°-60°)	2654.5	7.6	B3/5000		
BH	(60°-80°)	1335.4	3.8	B3/2500		G3/2500
BVH	(80°-90°)	18.3	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9
2.5°	4395.4	4383.4	4400.2	4393.0	4388.2	4378.6	4373.9	4369.1	4359.5	4352.3	4323.6
5°	4407.4	4400.2	4416.9	4431.3	4445.7	4460.0	4467.2	4476.8	4467.2	4448.1	4419.3
7.5°	4306.8	4302.0	4337.9	4381.0	4445.7	4500.7	4560.6	4594.1	4596.5	4589.3	4558.2
10°	4299.6	4287.7	4323.6	4376.3	4460.0	4558.2	4663.5	4735.4	4744.9	4776.1	4742.5
12.5°	4412.2	4400.2	4450.5	4507.9	4594.1	4697.0	4826.3	4926.9	4941.2	4984.3	4960.4
15°	4601.3	4584.5	4642.0	4716.2	4826.3	4943.6	5080.1	5171.1	5183.0	5235.7	5192.6
17.5°	4821.5	4804.8	4871.8	4950.8	5070.5	5230.9	5388.9	5489.5	5503.8	5537.3	5458.3
20°	5104.0	5082.5	5135.2	5207.0	5333.9	5525.4	5714.5	5858.1	5855.7	5855.7	5726.5
22.5°	5432.0	5398.5	5444.0	5501.4	5621.1	5853.4	6104.7	6274.7	6274.7	6207.7	5994.6
25°	5783.9	5750.4	5800.7	5853.4	5958.7	6222.0	6516.5	6727.2	6736.7	6621.8	6281.9
27.5°	6224.4	6181.3	6219.6	6281.9	6344.1	6612.3	6961.8	7206.0	7210.8	7033.6	6554.8
30°	7071.9	6949.8	6830.1	6763.1	6791.8	7057.5	7431.0	7701.5	7725.5	7481.3	6851.7
32.5°	8623.2	8599.3	8177.9	7627.3	7340.0	7536.3	7955.3	8280.9	8295.2	7981.6	7237.1
35°	11034.0	11005.3	10327.8	9279.2	8343.1	8177.9	8592.1	8977.5	8968.0	8613.6	7737.4
37.5°	13911.6	13885.3	12992.3	11589.4	10074.0	9147.5	9413.2	9817.8	9877.7	9413.2	8383.8
40°	16370.2	16272.1	15707.1	14354.5	12372.2	10756.3	10581.5	10849.7	10911.9	10361.3	9205.0
42.5°	18232.8	18149.0	17861.7	17016.6	15154.1	13135.9	11958.1	12061.0	12130.4	11469.7	10148.2
45°	19197.6	19178.4	19293.3	19214.3	17988.6	16056.6	13926.0	13497.4	13523.8	12697.8	11218.3
47.5°	19334.0	19324.4	19848.7	20590.9	20425.7	19350.8	16451.6	15288.1	15194.8	14084.0	12381.8
50°	18529.6	18510.5	19516.0	20906.9	22053.6	22118.3	19319.7	17306.3	17100.4	15518.0	13595.6
52.5°	15960.9	15956.1	17607.9	19923.0	22625.8	24541.0	22154.2	19523.2	19178.4	17035.8	14878.8
55°	12281.3	12369.9	14263.5	16999.9	21582.0	25706.9	24699.0	21984.2	21455.1	18563.2	16061.4
57.5°	8699.8	8829.1	10701.2	13138.3	18345.3	25017.4	26420.3	24450.0	23880.3	20085.7	17260.8
60°	4673.1	4788.0	6662.5	9571.3	13648.3	22446.2	27327.6	26590.3	26051.6	21531.7	18342.9
62.5°	2784.2	2822.5	3598.2	6178.9	9231.3	17148.3	26942.2	28220.6	27777.7	22745.5	19283.8
65°	1999.0	2006.2	2396.4	3773.0	5604.4	10418.7	24239.4	29001.0	28864.6	23660.0	19980.4
67.5°	1683.0	1678.2	1841.0	2506.5	3818.4	5218.9	18577.5	27897.4	28476.8	24239.4	20375.4
70°	1443.6	1450.8	1642.3	1836.2	2870.4	2954.2	9236.1	24289.6	25524.9	24392.6	20351.5
72.5°	1074.9	1098.9	1276.0	1673.4	2166.6	2032.5	3188.8	18010.1	20243.7	22982.5	19295.7
75°	758.9	770.9	897.8	1407.7	1616.0	1479.5	1627.9	9310.3	12173.5	17619.9	15793.3
77.5°	584.1	605.7	679.9	983.9	1592.0	1039.0	995.9	3222.3	4950.8	10643.8	10828.1
80°	316.0	354.3	490.8	711.0	1118.0	735.0	493.2	1283.2	1678.2	4977.1	4175.2
82.5°	162.8	181.9	342.3	512.3	636.8	641.6	244.2	533.9	691.9	1537.0	572.2
85°	64.6	79.0	229.8	282.5	328.0	316.0	110.1	215.5	249.0	426.1	174.8
87.5°	14.4	23.9	83.8	64.6	62.2	67.0	26.3	50.3	47.9	50.3	31.1
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°	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9	4294.9
2.5°	4321.2	4311.6	4285.3	4256.5	4223.0	4203.9	4191.9	4189.5	4172.8	4160.8	4172.8
5°	4393.0	4383.4	4333.2	4273.3	4208.7	4158.4	4110.5	4067.4	4005.2	3993.2	3988.4
7.5°	4536.6	4510.3	4428.9	4347.5	4225.4	4079.4	3902.2	3698.7	3516.8	3461.7	3435.4
10°	4713.8	4677.9	4575.0	4431.3	4160.8	3763.4	3334.9	2937.5	2621.4	2532.9	2499.3
12.5°	4914.9	4883.8	4747.3	4481.6	3890.3	3169.7	2513.7	2020.5	1714.1	1637.5	1616.0
15°	5154.3	5108.8	4919.7	4405.0	3406.7	2408.4	1726.1	1434.0	1323.9	1309.5	1295.2
17.5°	5408.1	5333.9	5072.9	4129.7	2755.5	1711.7	1333.5	1249.7	1201.8	1187.4	1180.2
20°	5640.3	5544.5	5163.9	3713.1	2058.8	1333.5	1194.6	1139.5	1096.5	1079.7	1070.1
22.5°	5872.5	5736.0	5163.9	3145.7	1544.1	1182.6	1096.5	1046.2	995.9	974.4	962.4
25°	6114.3	5932.4	5072.9	2513.7	1242.5	1084.5	1003.1	948.0	904.9	878.6	869.0
27.5°	6348.9	6097.5	4864.6	1915.2	1106.0	998.3	916.9	864.2	823.5	804.4	804.4
30°	6571.6	6260.3	4572.6	1453.2	1017.5	914.5	837.9	792.4	751.7	732.6	735.0
32.5°	6873.2	6466.2	4261.3	1192.2	940.8	835.5	766.1	723.0	687.1	672.7	672.7
35°	7292.2	6770.3	3993.2	1170.7	876.2	770.9	701.4	660.7	624.8	612.9	612.9
37.5°	7885.9	7261.0	3852.0	1314.3	823.5	713.4	648.8	605.7	572.2	562.6	560.2
40°	8618.4	7926.6	3928.6	1458.0	787.6	663.1	600.9	557.8	529.1	517.1	514.7
42.5°	9487.5	8747.7	4352.3	1568.1	763.7	620.0	555.4	507.5	488.4	483.6	483.6
45°	10485.8	9650.3	5001.1	1685.4	725.4	579.4	509.9	474.0	459.6	457.3	454.9
47.5°	11620.5	10641.4	5752.8	1831.4	687.1	541.0	474.0	450.1	438.1	433.3	433.3
50°	12745.7	11639.7	6526.1	1912.8	656.0	505.1	445.3	426.1	416.6	414.2	414.2
52.5°	13923.6	12666.7	7150.9	1836.2	629.6	476.4	421.3	407.0	397.4	395.0	395.0
55°	15046.4	13497.4	7258.6	1558.5	577.0	447.7	395.0	387.8	375.9	375.9	373.5
57.5°	16013.5	13914.0	6497.3	1144.3	524.3	404.6	368.7	361.5	351.9	349.5	347.1
60°	16901.7	13794.3	5015.5	770.9	466.8	361.5	335.2	330.4	320.8	308.8	306.4
62.5°	17402.1	13267.6	3430.6	502.7	409.4	316.0	296.9	294.5	272.9	249.0	244.2
65°	17591.2	12185.5	2140.2	366.3	342.3	270.5	256.2	251.4	220.2	193.9	191.5
67.5°	17426.0	10404.4	1079.7	289.7	270.5	225.0	210.7	210.7	189.1	165.2	162.8
70°	16765.3	7799.7	454.9	232.2	208.3	172.4	172.4	181.9	160.4	134.1	131.7
72.5°	15331.2	5247.7	241.8	177.2	155.6	122.1	141.2	148.4	126.9	100.5	100.5
75°	12187.9	3200.8	167.6	131.7	98.2	86.2	107.7	112.5	86.2	67.0	64.6
77.5°	8335.9	1838.6	112.5	83.8	62.2	50.3	74.2	69.4	45.5	31.1	33.5
80°	3660.4	766.1	64.6	38.3	23.9	19.2	26.3	19.2	14.4	9.6	9.6
82.5°	428.5	179.6	23.9	14.4	9.6	4.8	2.4	0.0	0.0	0.0	0.0
85°	88.6	21.5	12.0	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	4.8	2.4	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)