

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: P951670

Luminaire Tested: **GALN-SB5D-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951670
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-SB5D-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 39285 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 364.9
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



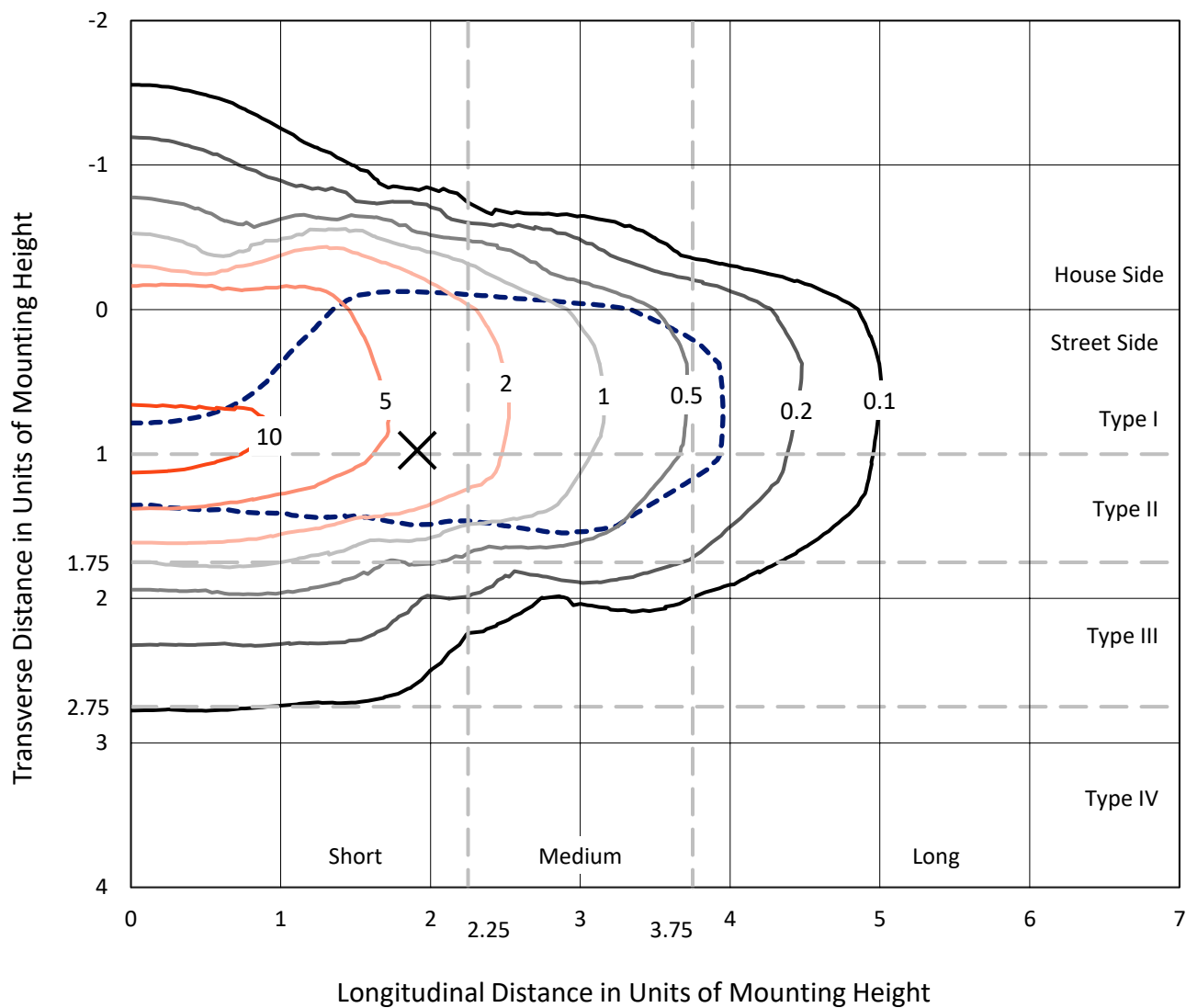
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

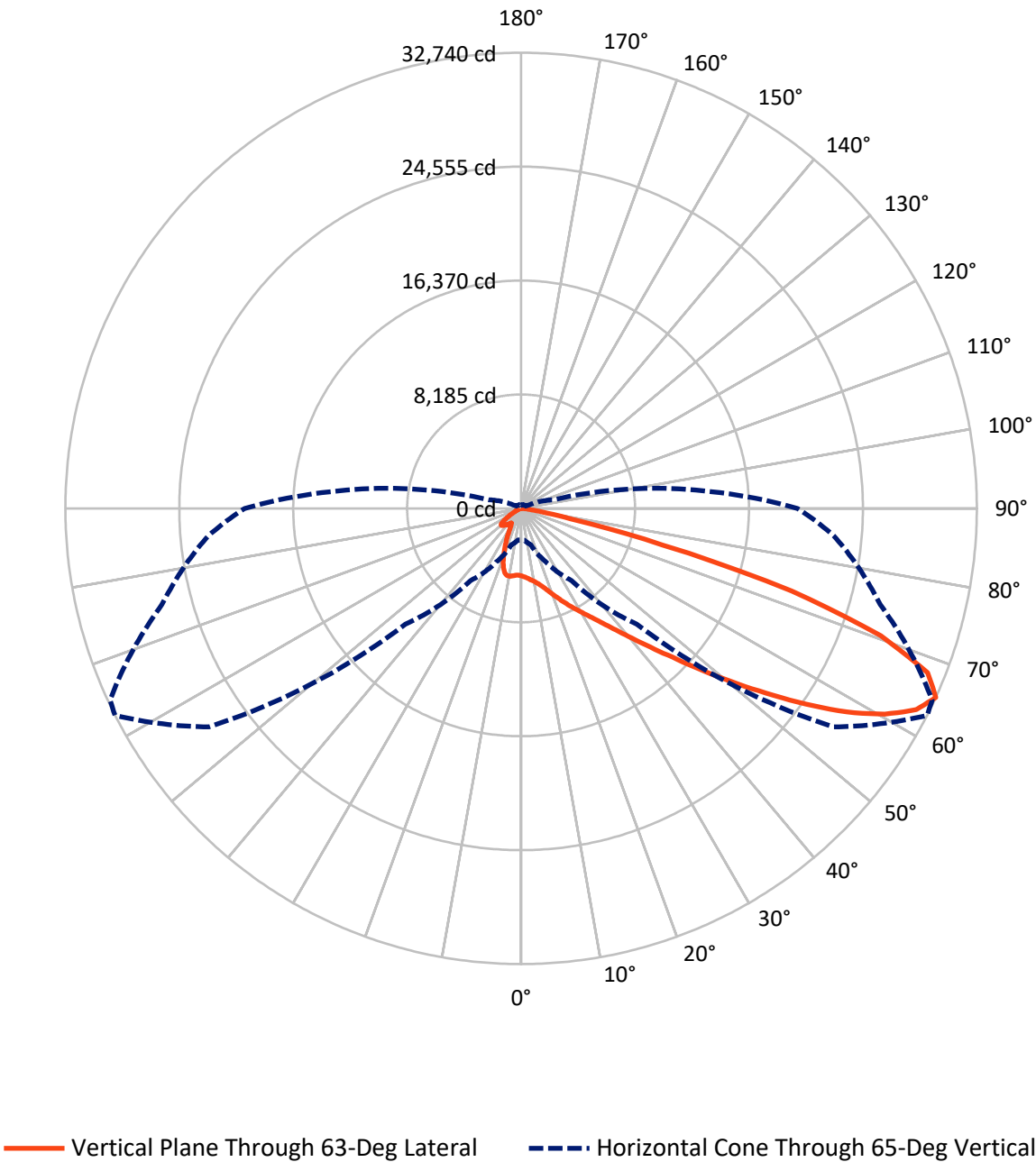
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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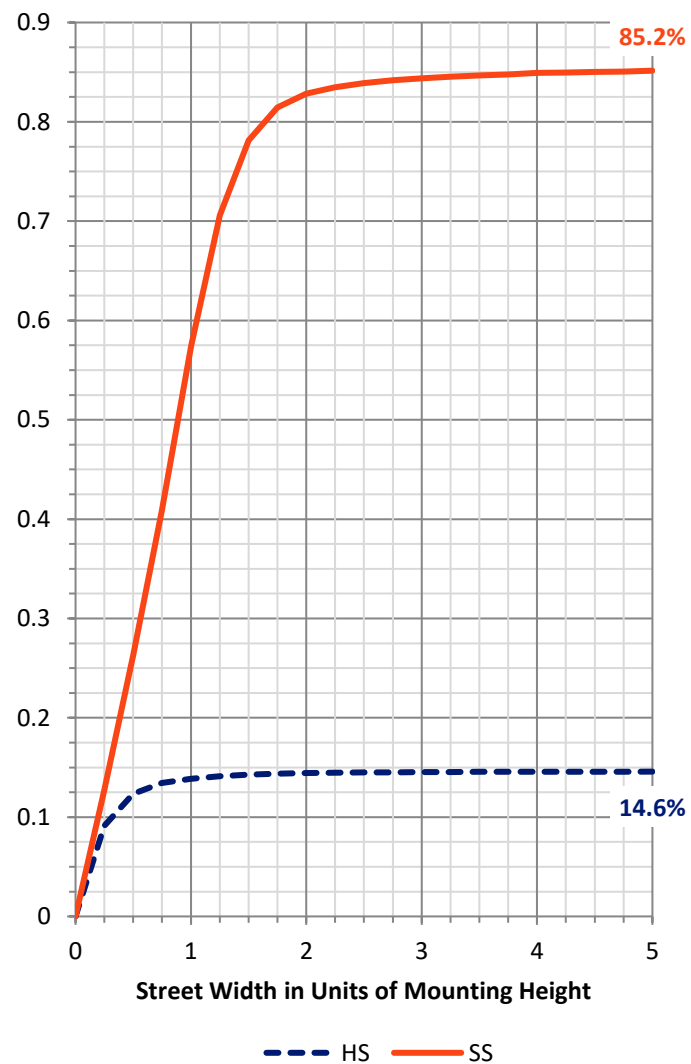
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5774.6	0.0	5774.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	33510.4	0.0	33510.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	39285.0	0.0	39285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.8	1.2
10°-20°	1267.5	3.2
20°-30°	2207.1	5.6
30°-40°	3978.0	10.1
40°-50°	7889.6	20.1
50°-60°	10747.0	27.4
60°-70°	8578.2	21.8
70°-80°	3881.8	9.9
80°-90°	279.0	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°	39285.0	100.0
0°-180°	39285.0	100.0

Coefficient of Utilization



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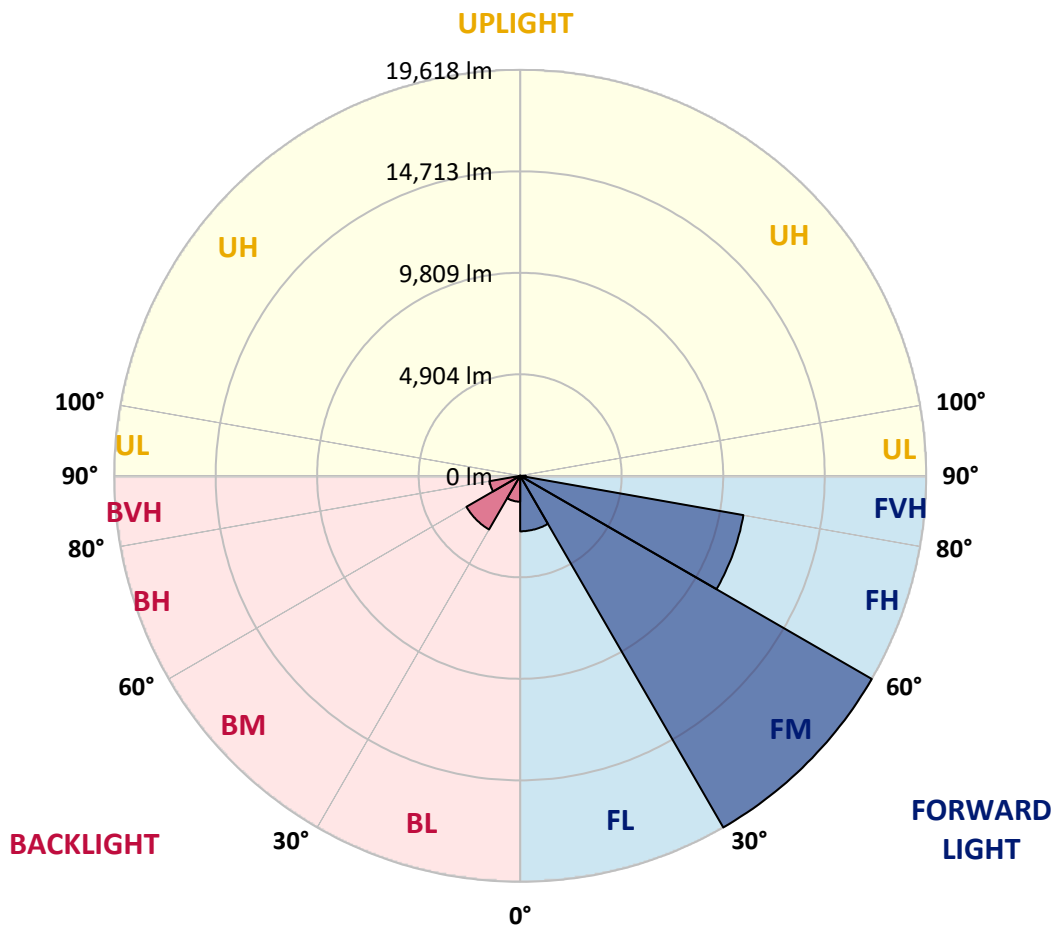
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2681.7	6.8			
FM	(30°-60°)	19617.9	49.9			
FH	(60°-80°)	10952.5	27.9			G4/12000
FVH	(80°-90°)	258.3	0.7			G3/500
BL	(0°-30°)	1249.7	3.2	B3/2500		
BM	(30°-60°)	2996.7	7.6	B3/5000		
BH	(60°-80°)	1507.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	20.7	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°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	4962.0	4948.5	4967.4	4959.3	4953.9	4943.1	4937.7	4932.3	4921.5	4913.4	4880.9
5°	4975.5	4967.4	4986.3	5002.6	5018.8	5035.0	5043.1	5053.9	5043.1	5021.5	4989.0
7.5°	4862.0	4856.6	4897.2	4945.8	5018.8	5080.9	5148.5	5186.3	5189.0	5180.9	5145.8
10°	4853.9	4840.4	4880.9	4940.4	5035.0	5145.8	5264.7	5345.8	5356.6	5391.7	5353.9
12.5°	4980.9	4967.4	5024.2	5089.0	5186.3	5302.6	5448.5	5562.0	5578.2	5626.9	5599.8
15°	5194.4	5175.5	5240.4	5324.2	5448.5	5580.9	5735.0	5837.7	5851.2	5910.6	5862.0
17.5°	5443.1	5424.2	5499.8	5589.0	5724.2	5905.2	6083.6	6197.1	6213.3	6251.2	6162.0
20°	5762.0	5737.7	5797.1	5878.2	6021.5	6237.7	6451.2	6613.3	6610.6	6610.6	6464.7
22.5°	6132.3	6094.4	6145.8	6210.6	6345.8	6607.9	6891.7	7083.6	7083.6	7007.9	6767.4
25°	6529.5	6491.7	6548.5	6607.9	6726.8	7024.1	7356.5	7594.4	7605.2	7475.5	7091.7
27.5°	7026.8	6978.2	7021.4	7091.7	7162.0	7464.7	7859.2	8134.9	8140.3	7940.3	7399.8
30°	7983.6	7845.7	7710.6	7634.9	7667.4	7967.3	8389.0	8694.3	8721.4	8445.7	7734.9
32.5°	9734.9	9707.8	9232.2	8610.6	8286.3	8507.9	8980.8	9348.4	9364.6	9010.6	8170.0
35°	12456.4	12424.0	11659.1	10475.4	9418.7	9232.2	9699.7	10134.8	10124.0	9724.0	8734.9
37.5°	15705.0	15675.2	14667.2	13083.4	11372.7	10326.7	10626.7	11083.5	11151.0	10626.7	9464.6
40°	18480.6	18369.7	17731.9	16204.9	13967.2	12142.9	11945.6	12248.3	12318.6	11697.0	10391.6
42.5°	20583.2	20488.6	20164.3	19210.3	17107.6	14829.3	13499.6	13615.8	13694.2	12948.3	11456.4
45°	21672.4	21650.7	21780.5	21691.3	20307.5	18126.5	15721.2	15237.4	15267.1	14334.7	12664.5
47.5°	21826.4	21815.6	22407.5	23245.3	23058.8	21845.3	18572.4	17259.0	17153.6	15899.5	13978.0
50°	20918.3	20896.7	22031.8	23602.0	24896.6	24969.6	21810.2	19537.3	19304.9	17518.4	15348.2
52.5°	18018.4	18013.0	19877.8	22491.3	25542.5	27704.6	25010.1	22039.9	21650.7	19231.9	16796.8
55°	13864.5	13964.5	16102.2	19191.3	24364.2	29020.8	27883.0	24818.2	24220.9	20956.2	18131.9
57.5°	9821.3	9967.3	12080.7	14832.0	20710.2	28242.4	29826.2	27601.9	26958.7	22675.0	19485.9
60°	5275.5	5405.3	7521.4	10805.1	15407.7	25339.8	30850.5	30018.1	29410.0	24307.4	20707.5
62.5°	3143.2	3186.4	4062.0	6975.5	10421.3	19358.9	30415.4	31858.6	31358.6	25677.7	21769.7
65°	2256.7	2264.8	2705.3	4259.3	6326.8	11761.8	27364.1	32739.6	32585.6	26710.1	22556.1
67.5°	1899.9	1894.5	2078.3	2829.6	4310.7	5891.7	20972.4	31493.7	32147.7	27364.1	23002.1
70°	1629.7	1637.8	1854.0	2072.9	3240.4	3335.0	10426.7	27420.8	28815.4	27537.1	22975.0
72.5°	1213.5	1240.5	1440.5	1889.1	2445.9	2294.5	3599.9	20331.9	22853.4	25945.2	21783.2
75°	856.7	870.2	1013.5	1589.1	1824.3	1670.2	1837.8	10510.5	13742.9	19891.3	17829.2
77.5°	659.4	683.8	767.5	1110.8	1797.2	1172.9	1124.3	3637.7	5589.0	12015.9	12224.0
80°	356.7	400.0	554.0	802.7	1262.1	829.7	556.7	1448.6	1894.5	5618.8	4713.4
82.5°	183.8	205.4	386.5	578.4	718.9	724.3	275.7	602.7	781.1	1735.1	645.9
85°	73.0	89.2	259.5	318.9	370.3	356.7	124.3	243.2	281.1	481.1	197.3
87.5°	16.2	27.0	94.6	73.0	70.3	75.7	29.7	56.8	54.1	56.8	35.1
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°	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5	4848.5
2.5°	4878.2	4867.4	4837.7	4805.3	4767.4	4745.8	4732.3	4729.6	4710.7	4697.2	4710.7
5°	4959.3	4948.5	4891.8	4824.2	4751.2	4694.5	4640.4	4591.8	4521.5	4508.0	4502.6
7.5°	5121.5	5091.7	4999.9	4908.0	4770.1	4605.3	4405.3	4175.6	3970.2	3908.0	3878.3
10°	5321.5	5280.9	5164.7	5002.6	4697.2	4248.5	3764.8	3316.1	2959.4	2859.4	2821.5
12.5°	5548.5	5513.4	5359.3	5059.3	4391.8	3578.3	2837.8	2281.0	1935.1	1848.6	1824.3
15°	5818.8	5767.4	5553.9	4972.8	3845.8	2718.8	1948.6	1618.9	1494.6	1478.3	1462.1
17.5°	6105.2	6021.5	5726.9	4662.0	3110.7	1932.4	1505.4	1410.8	1356.7	1340.5	1332.4
20°	6367.4	6259.3	5829.6	4191.8	2324.3	1505.4	1348.6	1286.5	1237.8	1218.9	1208.1
22.5°	6629.5	6475.5	5829.6	3551.3	1743.2	1335.1	1237.8	1181.0	1124.3	1100.0	1086.5
25°	6902.5	6697.1	5726.9	2837.8	1402.7	1224.3	1132.4	1070.2	1021.6	991.9	981.1
27.5°	7167.4	6883.6	5491.7	2162.1	1248.6	1127.0	1035.1	975.6	929.7	908.1	908.1
30°	7418.7	7067.4	5162.0	1640.5	1148.6	1032.4	945.9	894.6	848.6	827.0	829.7
32.5°	7759.2	7299.8	4810.7	1345.9	1062.1	943.2	864.8	816.2	775.7	759.4	759.4
35°	8232.2	7643.0	4508.0	1321.6	989.2	870.2	791.9	745.9	705.4	691.9	691.9
37.5°	8902.5	8197.1	4348.5	1483.7	929.7	805.4	732.4	683.8	645.9	635.1	632.4
40°	9729.5	8948.4	4435.0	1645.9	889.2	748.6	678.4	629.7	597.3	583.8	581.1
42.5°	10710.5	9875.4	4913.4	1770.2	862.1	700.0	627.0	573.0	551.3	545.9	545.9
45°	11837.5	10894.3	5645.8	1902.6	818.9	654.0	575.7	535.1	518.9	516.2	513.5
47.5°	13118.5	12013.2	6494.4	2067.5	775.7	610.8	535.1	508.1	494.6	489.2	489.2
50°	14388.8	13140.2	7367.4	2159.4	740.5	570.3	502.7	481.1	470.3	467.6	467.6
52.5°	15718.5	14299.6	8072.7	2072.9	710.8	537.8	475.7	459.4	448.6	445.9	445.9
55°	16986.0	15237.4	8194.4	1759.4	651.3	505.4	445.9	437.8	424.3	424.3	421.6
57.5°	18077.9	15707.7	7334.9	1291.9	591.9	456.7	416.2	408.1	397.3	394.6	391.9
60°	19080.5	15572.5	5662.0	870.2	527.0	408.1	378.4	373.0	362.2	348.6	345.9
62.5°	19645.4	14978.0	3872.9	567.6	462.1	356.7	335.1	332.4	308.1	281.1	275.7
65°	19858.9	13756.4	2416.1	413.5	386.5	305.4	289.2	283.8	248.6	218.9	216.2
67.5°	19672.4	11745.6	1218.9	327.0	305.4	254.0	237.8	237.8	213.5	186.5	183.8
70°	18926.5	8805.2	513.5	262.2	235.1	194.6	194.6	205.4	181.1	151.3	148.6
72.5°	17307.6	5924.2	273.0	200.0	175.7	137.8	159.5	167.6	143.2	113.5	113.5
75°	13759.1	3613.4	189.2	148.6	110.8	97.3	121.6	127.0	97.3	75.7	73.0
77.5°	9410.5	2075.6	127.0	94.6	70.3	56.8	83.8	78.4	51.3	35.1	37.8
80°	4132.3	864.8	73.0	43.2	27.0	21.6	29.7	21.6	16.2	10.8	10.8
82.5°	483.8	202.7	27.0	16.2	10.8	5.4	2.7	0.0	0.0	0.0	0.0
85°	100.0	24.3	13.5	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	5.4	2.7	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)