

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: P456506

Luminaire Tested: **GALN-SA7D-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456506  
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-SA7D-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38420 lumens  
Efficiency: N/A  
Efficacy: 88.7 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

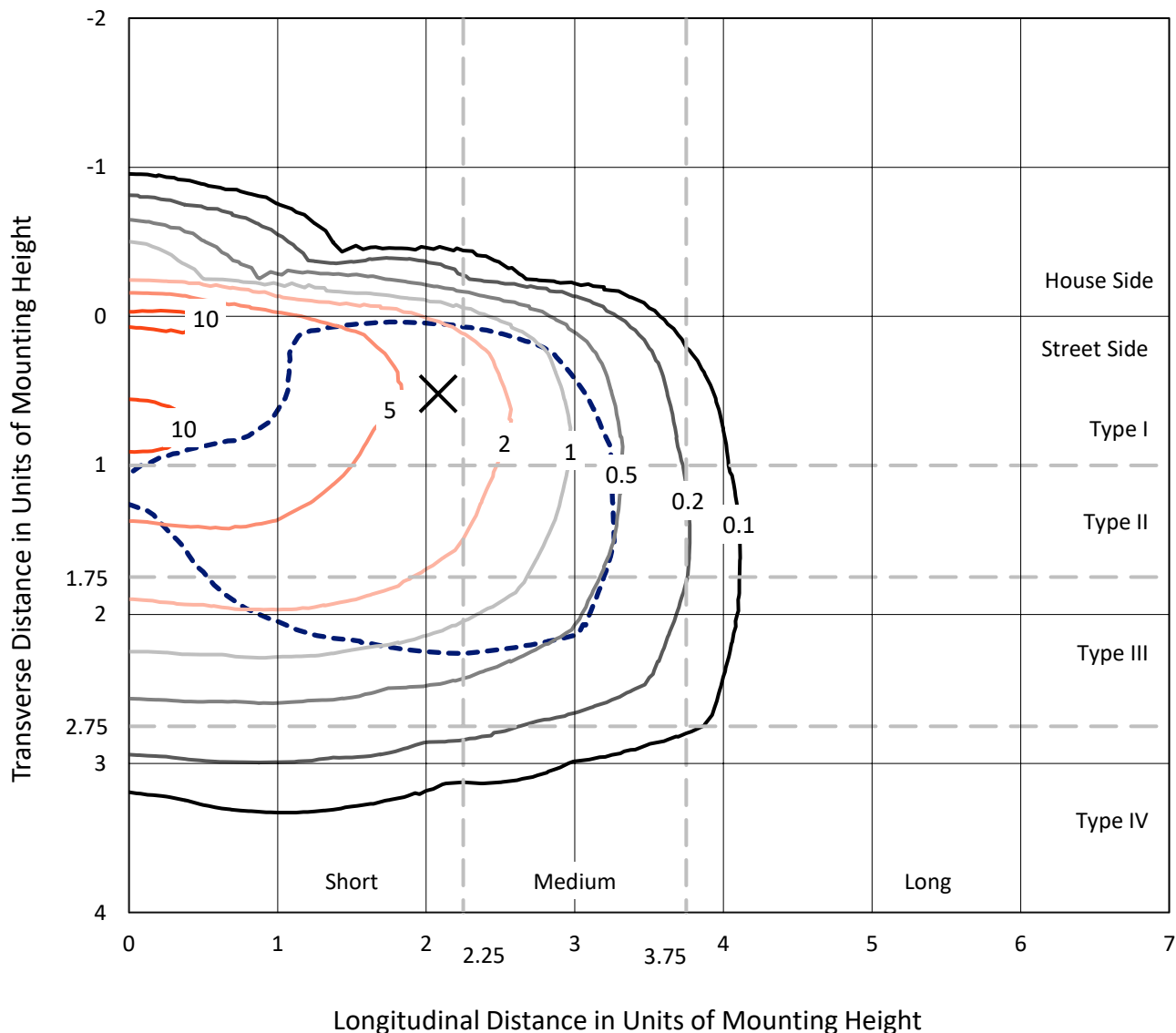
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

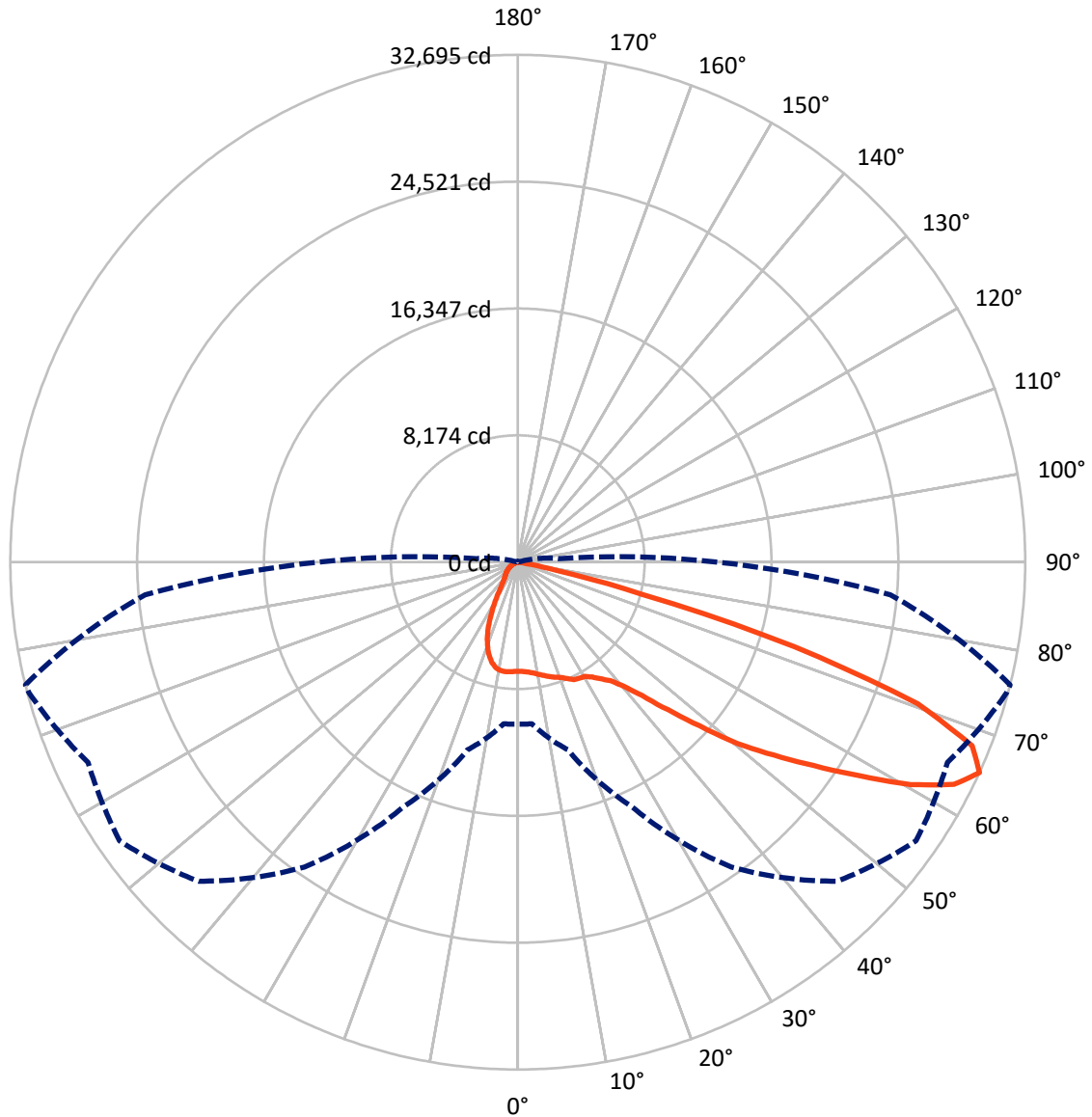
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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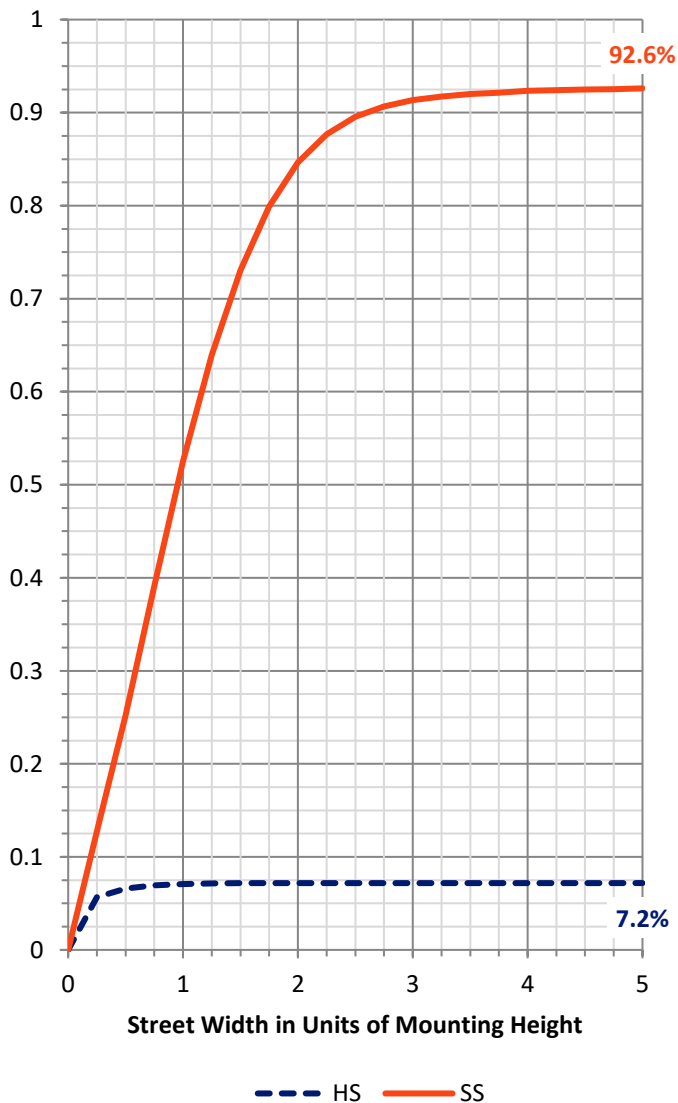
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2774.7	0.0	2774.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	35645.3	0.0	35645.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	38420.0	0.0	38420.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	579.0	1.5
10°-20°	1289.1	3.4
20°-30°	2077.3	5.4
30°-40°	3611.9	9.4
40°-50°	5968.4	15.5
50°-60°	9219.9	24.0
60°-70°	11258.9	29.3
70°-80°	4273.0	11.1
80°-90°	142.6	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°	38420.0	100.0
0°-180°	38420.0	100.0



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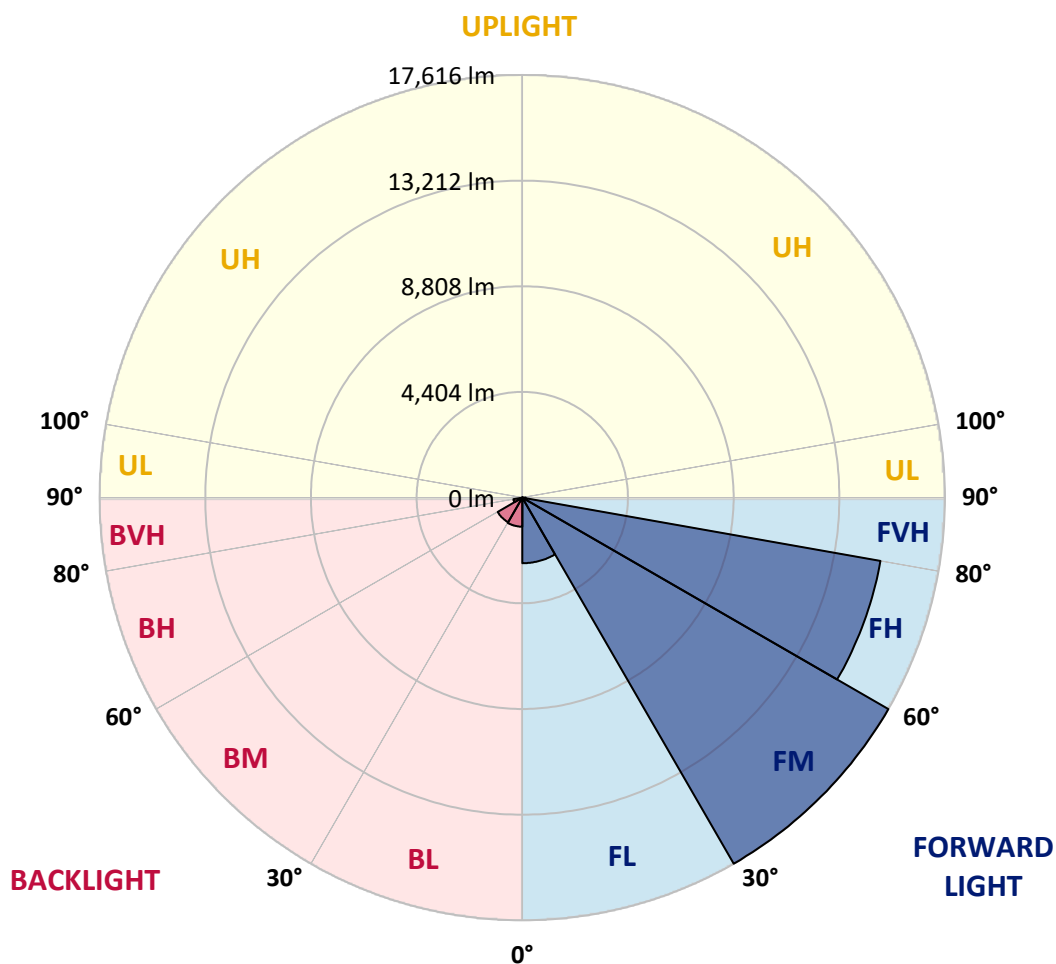
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.1	7.1			
FM (30°-60°)	17616.2	45.9			
FH (60°-80°)	15155.4	39.4			G5
FVH (80°-90°)	140.6	0.4			G2/225
BL (0°-30°)	1212.2	3.2	B3/2500		
BM (30°-60°)	1184.0	3.1	B2/2500		
BH (60°-80°)	376.5	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
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°	65°	75°	76°	85°
0°	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2
2.5°	6716.3	6719.0	6735.3	6776.0	6838.4	6889.9	6933.3	7003.8	7052.7	7058.1	7074.4
5°	6252.5	6219.9	6252.5	6358.2	6453.2	6596.9	6773.3	6949.6	7106.9	7117.8	7193.7
7.5°	5731.6	5758.8	5810.3	5918.8	6097.8	6317.6	6572.5	6887.2	7185.6	7212.7	7361.9
10°	5202.7	5262.4	5346.5	5511.9	5761.5	6046.3	6393.5	6843.8	7310.4	7348.3	7606.0
12.5°	4714.4	4741.6	4844.6	5067.1	5376.3	5777.8	6257.9	6819.4	7448.7	7494.8	7866.4
15°	4340.1	4375.4	4464.9	4665.6	5010.1	5525.5	6146.7	6811.2	7584.3	7649.4	8126.8
17.5°	4269.6	4291.3	4329.2	4464.9	4766.0	5324.8	6046.3	6808.5	7714.5	7793.2	8368.2
20°	4559.8	4540.8	4502.9	4489.3	4654.8	5170.1	5973.1	6830.2	7839.3	7928.8	8623.2
22.5°	5286.8	5311.2	5088.8	4825.6	4771.4	5145.7	5962.2	6933.3	8037.3	8143.1	8908.0
25°	6830.2	6643.1	6295.9	5666.5	5191.8	5294.9	6084.3	7177.4	8267.9	8384.5	9165.7
27.5°	8536.4	8479.5	7939.7	6903.5	6019.2	5609.6	6301.3	7364.6	8343.8	8463.2	9312.2
30°	10212.8	10280.6	9662.1	8517.4	7220.8	6192.8	6504.7	7435.1	8411.6	8536.4	9499.4
32.5°	11767.1	11848.5	11306.0	10172.1	8636.8	7201.8	6854.6	7709.1	8696.5	8824.0	9811.3
35°	12990.5	13001.3	12591.7	11688.4	10183.0	8427.9	7611.4	8189.2	9081.7	9230.8	10142.3
37.5°	14113.5	14097.2	13617.1	12838.5	11471.4	9645.9	8563.6	8742.6	9521.1	9675.7	10619.7
40°	14946.2	14957.1	14802.4	14070.1	12673.1	10771.6	9317.6	9260.7	10258.9	10500.3	11314.1
42.5°	15502.3	15602.6	15678.6	15307.0	14184.0	12157.7	10475.9	10370.1	11539.2	11740.0	12296.0
45°	15952.6	16131.6	16511.4	16492.4	15635.2	13858.5	12065.5	11848.5	13353.9	13568.2	13546.5
47.5°	16280.8	16462.5	17091.8	17471.6	16999.6	15507.7	14064.6	13877.5	15521.3	15754.6	14927.2
50°	16449.0	16666.0	17468.9	18204.0	18065.7	17097.3	16343.2	16354.0	18138.9	18364.0	16527.6
52.5°	16055.6	16337.8	17669.6	18993.3	19261.9	18619.0	18478.0	18836.0	20469.0	20661.6	17973.4
55°	14799.7	15155.1	17395.7	19666.1	20648.0	20414.7	20903.0	21448.2	23016.1	23140.9	19457.2
57.5°	14004.9	14382.0	16587.3	20238.4	22313.5	22671.6	23444.7	23843.4	25644.5	25961.9	21160.7
60°	13334.9	13630.6	15922.7	20360.5	24006.2	25433.0	26184.3	26596.7	28888.8	29094.9	23035.1
62.5°	12220.1	12559.2	14799.7	19508.7	24857.9	27643.7	29200.7	29016.3	31397.9	31541.7	24185.2
65°	10427.1	10456.9	12521.2	17368.5	23979.0	29078.6	31319.2	30546.1	32596.8	32694.5	24095.7
67.5°	7782.3	8069.9	9632.3	13652.3	20254.7	27852.6	32005.5	30586.8	31840.0	31568.8	22183.3
70°	5012.8	5232.5	6529.1	9466.8	14604.4	23243.9	29729.7	28490.0	27944.8	27342.6	18157.9
72.5°	2313.8	2595.9	3879.0	5408.8	8661.2	16557.5	24133.7	23146.3	20113.6	18627.2	11541.9
75°	1009.1	1079.6	1915.1	2853.6	4060.7	8756.1	15911.9	14368.4	9084.4	8297.7	4619.5
77.5°	615.8	661.9	1003.6	1529.9	1595.0	3336.4	8571.7	6268.7	2807.5	2476.6	1253.2
80°	417.7	469.3	729.7	800.2	545.2	930.4	3217.1	1673.6	566.9	542.5	268.5
82.5°	203.4	257.7	539.8	447.6	236.0	298.4	935.8	358.1	165.5	154.6	94.9
85°	29.8	51.5	303.8	293.0	105.8	70.5	165.5	89.5	57.0	54.3	43.4
87.5°	0.0	0.0	103.1	46.1	10.9	10.9	19.0	19.0	21.7	19.0	21.7
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°	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2	7028.2
2.5°	7082.5	7096.1	7044.5	6971.3	6892.6	6814.0	6702.7	6602.4	6542.7	6578.0	6491.2
5°	7210.0	7199.1	7063.5	6841.1	6545.4	6190.1	5837.4	5536.3	5438.7	5292.2	5275.9
7.5°	7386.3	7356.5	7068.9	6559.0	5891.7	5224.4	4573.4	4142.1	3895.2	3686.4	3691.8
10°	7633.1	7546.3	7006.5	6062.6	4964.0	3957.6	3127.6	2557.9	2311.1	2232.4	2170.0
12.5°	7888.1	7719.9	6832.9	5392.6	3865.4	2704.4	1901.5	1554.3	1402.4	1353.6	1348.1
15°	8116.0	7850.1	6529.1	4586.9	2810.2	1727.9	1296.6	1182.7	1163.7	1166.4	1163.7
17.5°	8341.1	7953.2	6108.7	3732.5	1909.6	1239.6	1114.9	1087.7	1095.9	1106.7	1104.0
20°	8528.3	7974.9	5571.6	2848.2	1350.9	1087.7	1047.0	1041.6	1049.8	1057.9	1057.9
22.5°	8731.7	7991.2	4934.1	1972.0	1104.0	1011.8	990.1	990.1	1000.9	1011.8	1014.5
25°	8883.6	7901.7	4171.9	1416.0	973.8	938.5	927.7	930.4	941.3	946.7	944.0
27.5°	8908.0	7649.4	3363.6	1085.0	884.3	849.0	838.2	849.0	835.5	843.6	838.2
30°	8929.7	7329.3	2544.4	914.1	802.9	748.7	732.4	716.1	705.3	691.7	689.0
32.5°	8997.6	6952.3	1858.1	821.9	727.0	667.3	629.3	583.2	547.9	537.1	534.4
35°	9027.4	6499.3	1364.4	748.7	659.2	594.1	526.2	461.1	409.6	390.6	404.2
37.5°	9141.3	6059.9	1057.9	694.4	599.5	518.1	431.3	349.9	301.1	290.2	295.7
40°	9374.6	5582.4	887.0	648.3	547.9	447.6	341.8	263.1	230.6	219.7	217.0
42.5°	9748.9	5107.8	789.4	604.9	496.4	377.0	268.5	206.2	179.0	170.9	170.9
45°	10204.7	4652.0	721.5	558.8	442.1	303.8	211.6	165.5	149.2	143.8	143.8
47.5°	10804.1	4253.3	664.6	512.7	382.5	241.4	170.9	143.8	132.9	135.6	138.3
50°	11411.7	3957.6	602.2	461.1	314.7	198.0	146.5	127.5	124.8	127.5	127.5
52.5°	11870.2	3784.0	518.1	390.6	246.8	165.5	130.2	119.4	116.6	111.2	111.2
55°	12488.6	3746.0	412.3	317.4	195.3	138.3	116.6	108.5	100.4	94.9	92.2
57.5°	13283.4	3789.4	317.4	246.8	151.9	113.9	103.1	89.5	78.7	67.8	67.8
60°	13777.1	3691.8	246.8	189.9	111.2	92.2	78.7	65.1	51.5	43.4	40.7
62.5°	13619.8	3279.5	195.3	141.1	78.7	67.8	51.5	43.4	29.8	21.7	19.0
65°	12808.7	2647.5	157.3	97.7	57.0	40.7	27.1	27.1	13.6	2.7	0.0
67.5°	11211.0	1961.2	124.8	65.1	32.6	19.0	13.6	8.1	0.0	0.0	0.0
70°	9125.1	1416.0	97.7	40.7	19.0	13.6	5.4	2.7	0.0	0.0	0.0
72.5°	5794.0	811.1	76.0	24.4	13.6	5.4	0.0	0.0	0.0	0.0	0.0
75°	2240.6	317.4	51.5	16.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	634.7	149.2	29.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	165.5	65.1	16.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.7	27.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.1	10.9	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	2.7	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)