

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: P321744

Luminaire Tested: **GLEON-SA0D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 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: 43421 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

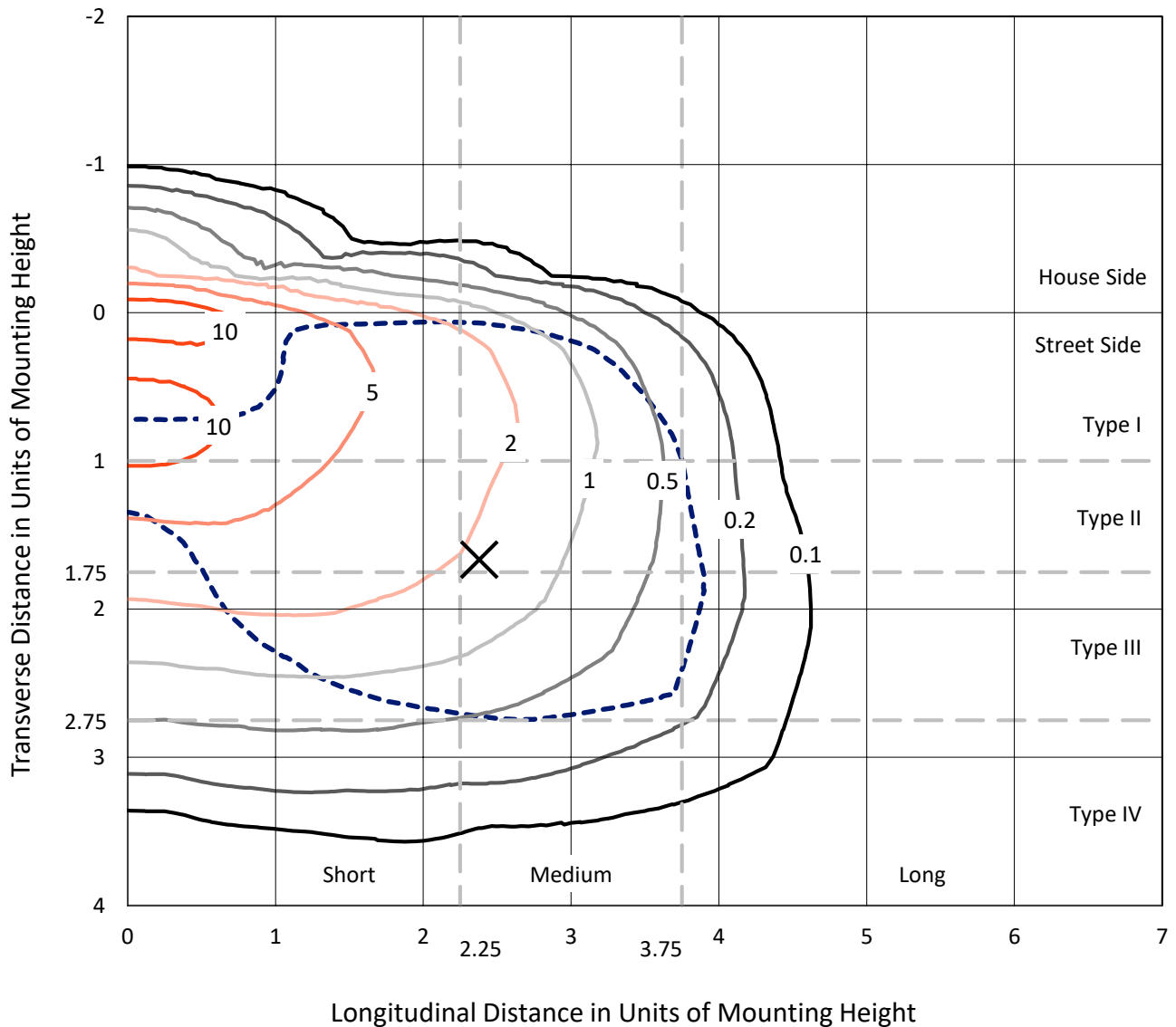
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321744
 CATALOG NUMBER: GLEON-SA0D-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

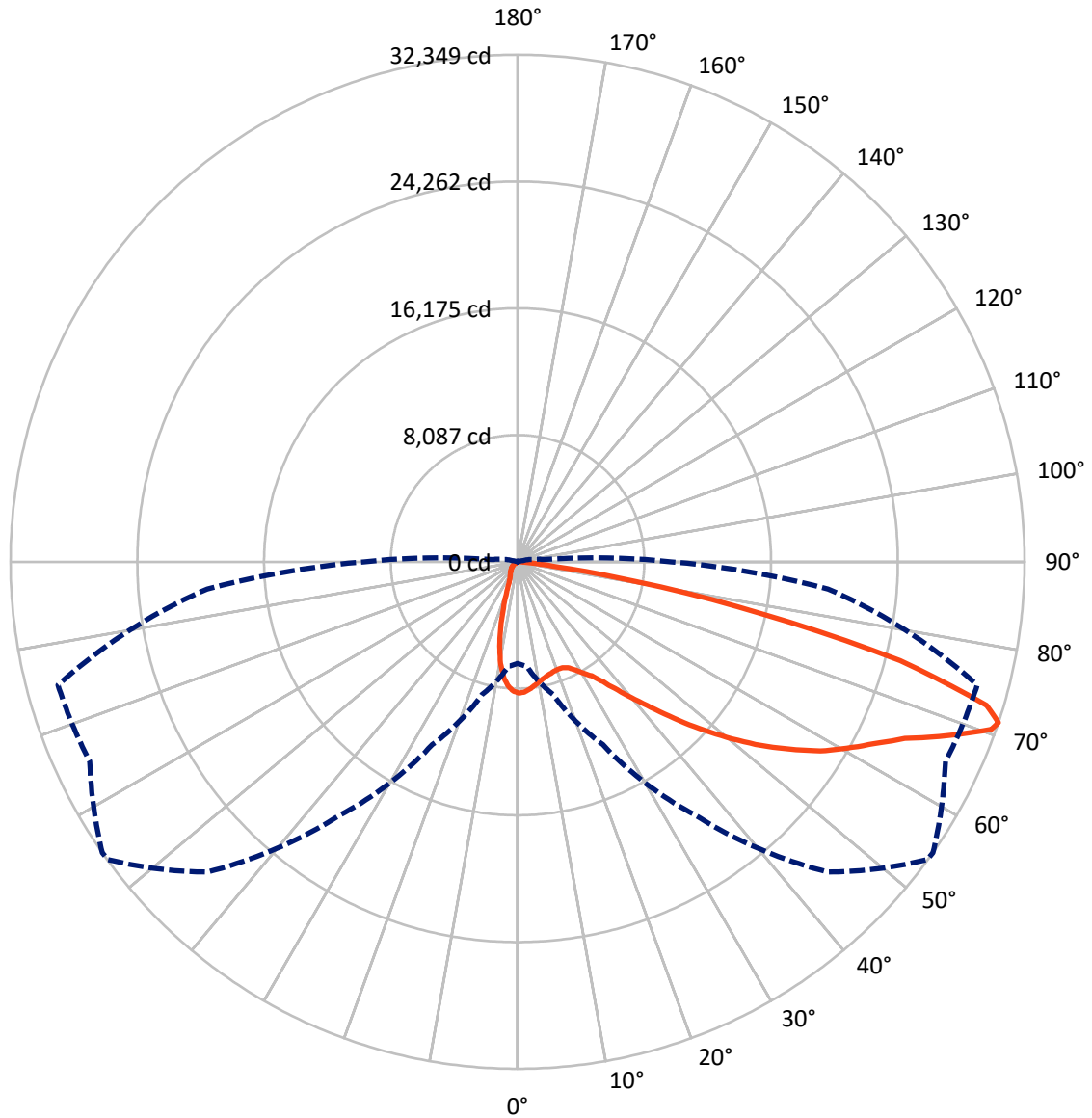
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P321744
CATALOG NUMBER: GLEON-SA0D-827-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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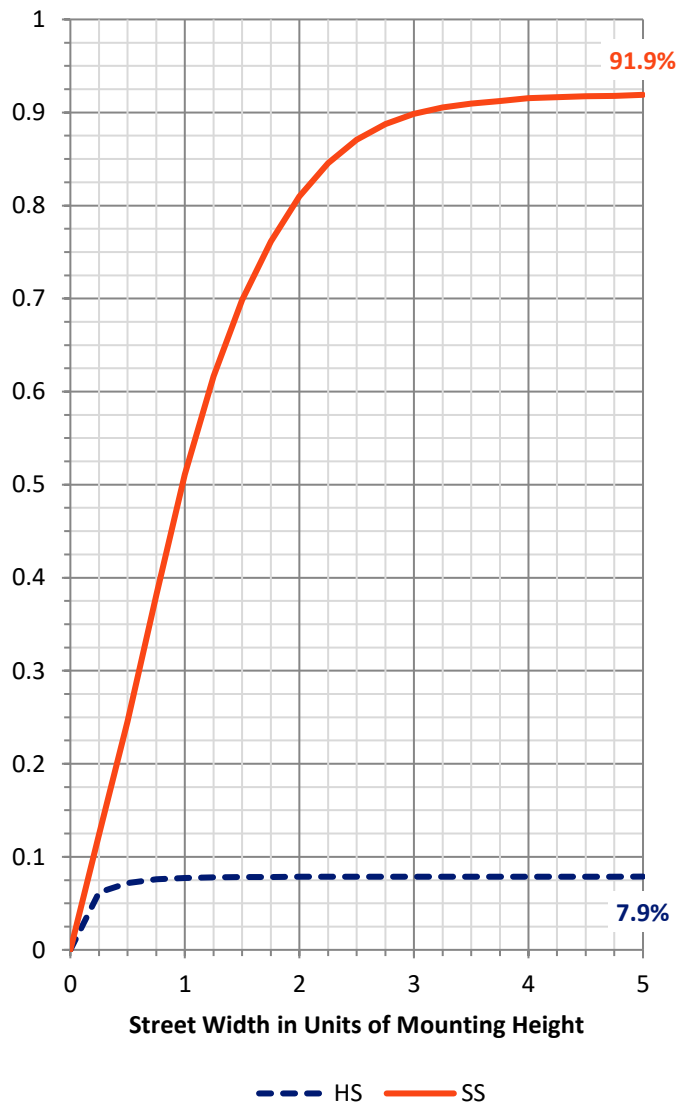
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3437.7	0.0	3437.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	39983.2	0.0	39983.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	43421.0	0.0	43421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.0	1.6
10°-20°	1611.9	3.7
20°-30°	2590.3	6.0
30°-40°	4401.1	10.1
40°-50°	6831.1	15.7
50°-60°	9184.2	21.2
60°-70°	11235.3	25.9
70°-80°	6569.0	15.1
80°-90°	284.0	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°	43421.0	100.0
0°-180°	43421.0	100.0

Coefficient of Utilization

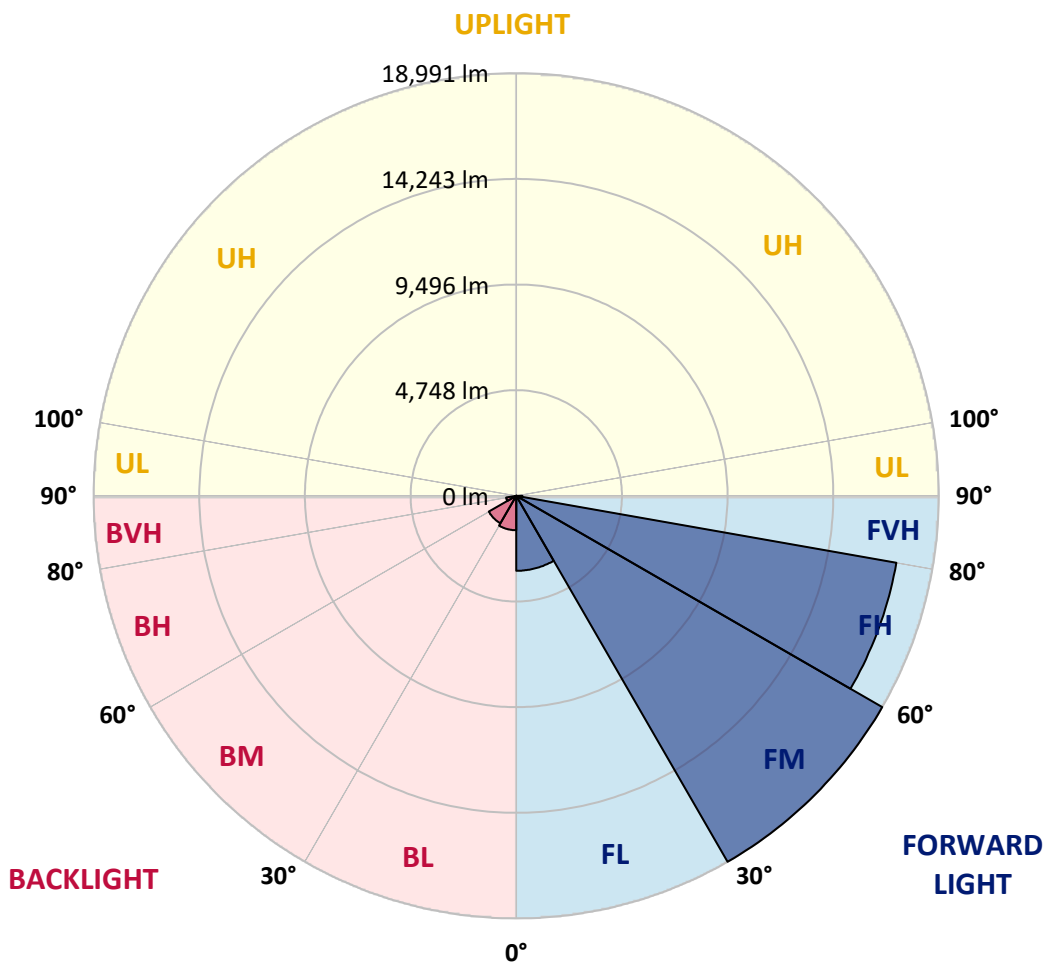


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 CATALOG NUMBER: GLEON-SA0D-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3368.9	7.8			
FM (30°-60°)	18991.1	43.7			
FH (60°-80°)	17343.8	39.9			G5
FVH (80°-90°)	279.5	0.6			G3/500
BL (0°-30°)	1547.3	3.6	B3/2500		
BM (30°-60°)	1425.4	3.3	B2/2500		
BH (60°-80°)	460.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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 Medium





REPORT NUMBER: P321744

CATALOG NUMBER: GLEON-SA0D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9
2.5°	8128.2	8138.0	8173.1	8188.7	8225.7	8288.1	8319.3	8321.3	8371.9	8391.4	8407.0
5°	7553.1	7611.6	7670.1	7732.4	7845.5	7995.7	8143.8	8157.5	8321.3	8442.1	8506.5
7.5°	7057.9	7110.5	7180.7	7280.1	7440.0	7675.9	7923.5	7952.8	8262.8	8537.7	8681.9
10°	6549.0	6591.9	6693.3	6839.5	7059.8	7375.7	7709.1	7757.8	8210.1	8666.3	8919.8
12.5°	6005.0	6030.4	6153.2	6363.8	6687.4	7089.1	7527.7	7592.1	8177.0	8814.5	9200.6
15°	5591.7	5603.4	5720.4	5938.7	6309.2	6831.7	7387.4	7465.3	8184.8	8991.9	9506.7
17.5°	5486.4	5492.3	5554.7	5704.8	6032.3	6601.6	7276.2	7371.8	8208.2	9165.5	9814.7
20°	5913.4	5872.5	5808.1	5784.7	5925.1	6463.2	7209.9	7317.2	8239.4	9319.5	10091.6
22.5°	7085.2	6964.3	6697.2	6340.4	6124.0	6473.0	7227.5	7334.7	8338.8	9508.6	10411.3
25°	8824.3	8656.6	8202.3	7500.4	6825.8	6753.7	7373.7	7482.9	8531.8	9734.8	10717.4
27.5°	10803.2	10637.5	10081.8	9079.7	7929.4	7309.4	7709.1	7810.4	8818.4	9935.6	10951.4
30°	12698.3	12651.5	11996.4	10857.8	9317.5	8210.1	8141.9	8227.7	9030.9	10056.5	11136.6
32.5°	14304.8	14230.7	13704.3	12596.9	10906.5	9292.2	8650.8	8676.1	9190.8	10212.4	11378.4
35°	15794.4	15702.8	15240.7	14193.7	12536.5	10614.1	9434.5	9397.5	9539.8	10526.3	11729.3
37.5°	17094.8	17178.7	16665.9	15669.6	13998.7	11988.6	10491.3	10380.1	10085.7	11037.2	12238.2
40°	18182.8	18182.8	17915.7	17085.1	15578.0	13409.9	11686.4	11540.2	10906.5	11824.8	12883.5
42.5°	18574.6	18658.5	18757.9	18288.0	16991.5	14887.8	13018.0	12866.0	12062.7	12942.0	13698.5
45°	18598.0	18730.6	19239.5	19237.5	18268.5	16355.9	14519.3	14447.2	13544.5	14377.0	14708.4
47.5°	18268.5	18434.3	19272.6	19748.4	19280.4	17722.6	16160.9	16071.3	15285.5	16135.6	15765.2
50°	17759.7	17942.9	18917.8	19949.2	19968.7	18911.9	17890.3	17755.8	17202.1	18145.7	16857.0
52.5°	16849.2	17204.0	18600.0	19996.0	20421.0	19939.4	19535.8	19477.3	19346.7	20081.8	17726.5
55°	14901.4	15295.3	17802.6	20011.6	20840.2	20849.9	21078.0	21093.6	21356.8	21891.1	18373.8
57.5°	13981.2	14203.5	16410.5	20085.7	21462.1	21883.3	22649.5	22770.4	23177.9	23608.7	19112.8
60°	13402.1	13665.3	15724.2	19984.3	22438.9	23238.3	24105.9	24146.8	24583.6	25381.0	20112.9
62.5°	12940.1	13199.4	15291.4	19594.3	23536.6	24868.2	25529.2	25533.1	25860.6	27492.5	21249.6
65°	11799.5	12017.9	14416.0	19155.7	24261.9	26480.6	27182.5	27157.2	27424.3	29719.0	22569.5
67.5°	10150.1	10317.7	12628.1	17492.6	23988.9	27946.8	29678.1	29594.3	29270.6	31643.4	23088.2
70°	7847.5	7907.9	9953.1	14577.8	21430.9	28510.2	32089.9	32047.0	30403.4	31298.3	21187.2
71°	6486.6	6685.5	8771.6	12866.0	19717.2	27989.7	32323.8	32349.2	30118.7	30358.5	19879.0
72.5°	3766.8	3936.4	6357.9	9881.0	16740.0	25817.7	31111.1	31294.4	28789.0	27613.4	16979.8
75°	807.2	863.7	2357.2	4782.6	9208.4	18095.0	24556.3	25209.4	23464.5	18785.2	10233.9
77.5°	561.5	606.4	1009.9	2170.0	3043.5	8941.3	15254.3	15991.3	14018.2	7059.8	3275.5
80°	444.5	495.2	787.7	1072.3	822.8	2883.6	7145.6	7596.0	4675.3	1575.3	551.8
82.5°	247.6	294.4	614.2	579.1	315.8	547.9	2000.4	2261.6	935.8	317.8	130.6
85°	72.1	87.7	395.8	421.1	134.5	105.3	341.2	423.1	177.4	83.8	58.5
87.5°	0.0	0.0	191.1	161.8	39.0	15.6	31.2	35.1	35.1	35.1	39.0
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°	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9	8373.9
2.5°	8407.0	8420.7	8371.9	8307.6	8239.4	8155.5	8067.8	7999.6	7997.6	7964.5	7931.3
5°	8510.4	8502.6	8368.0	8163.3	7921.6	7670.1	7430.2	7159.2	7069.6	6958.4	6921.4
7.5°	8701.4	8646.9	8362.2	7913.8	7383.5	6857.0	6313.1	5765.2	5531.3	5320.7	5283.6
10°	8941.3	8837.9	8325.2	7539.4	6566.5	5595.6	4774.8	4030.0	3702.5	3450.9	3439.2
12.5°	9190.8	9032.9	8221.8	6974.0	5496.2	4131.4	3185.8	2452.7	2179.7	2004.3	2019.9
15°	9452.1	9216.2	7999.6	6211.7	4277.6	2803.6	1957.5	1526.6	1417.4	1372.6	1384.3
17.5°	9719.2	9342.9	7689.6	5293.4	3074.7	1809.3	1355.0	1234.2	1234.2	1243.9	1247.8
20°	9951.2	9411.1	7233.3	4264.0	2084.2	1318.0	1185.4	1167.9	1177.6	1193.2	1195.2
22.5°	10181.3	9415.0	6638.7	3220.9	1458.4	1154.2	1128.9	1121.1	1126.9	1144.5	1146.4
25°	10368.4	9368.2	5893.9	2290.9	1164.0	1087.9	1076.2	1072.3	1076.2	1097.7	1097.7
27.5°	10444.5	9198.6	4985.3	1610.4	1043.1	1013.8	1009.9	1013.8	1019.7	1035.3	1037.2
30°	10452.3	8902.3	3994.9	1165.9	945.6	914.4	922.2	935.8	930.0	926.1	930.0
32.5°	10471.8	8559.1	3029.8	959.2	863.7	815.0	805.2	805.2	781.8	768.2	760.4
35°	10536.1	8155.5	2197.3	861.8	779.9	723.3	686.3	643.4	598.6	575.2	569.3
37.5°	10637.5	7732.4	1573.4	797.4	705.8	641.4	571.3	495.2	430.9	413.3	413.3
40°	10822.7	7295.7	1164.0	746.7	647.3	567.4	462.1	362.6	304.2	294.4	294.4
42.5°	11115.2	6835.6	928.0	701.9	596.6	491.3	352.9	263.2	220.3	214.5	212.5
45°	11419.3	6328.7	811.1	659.0	542.0	403.6	261.3	195.0	169.6	163.8	163.8
47.5°	11723.5	5788.6	754.5	618.1	489.4	313.9	195.0	154.0	142.3	142.3	144.3
50°	11980.8	5225.2	713.6	573.2	421.1	237.9	154.0	130.6	126.7	134.5	136.5
52.5°	12045.2	4671.4	662.9	516.7	337.3	181.3	126.7	115.0	115.0	115.0	115.0
55°	12006.2	4242.5	596.6	446.5	249.6	144.3	109.2	101.4	99.4	99.4	99.4
57.5°	12138.7	3989.1	477.7	347.0	179.4	117.0	95.5	89.7	85.8	83.8	83.8
60°	12405.8	3823.3	341.2	249.6	134.5	97.5	81.9	76.0	70.2	66.3	66.3
62.5°	12760.7	3679.1	253.5	185.2	103.3	78.0	68.2	62.4	54.6	50.7	50.7
65°	13033.6	3421.7	193.0	138.4	78.0	62.4	52.6	50.7	39.0	35.1	33.1
67.5°	12616.4	2856.3	156.0	101.4	58.5	48.7	40.9	39.0	23.4	19.5	19.5
70°	10820.7	1988.7	124.8	74.1	42.9	39.0	33.1	25.3	17.5	15.6	15.6
71°	9812.8	1661.1	113.1	62.4	37.0	37.0	31.2	21.4	15.6	13.6	13.6
72.5°	8151.6	1179.6	95.5	48.7	33.1	39.0	33.1	19.5	15.6	13.6	11.7
75°	4731.9	493.3	66.3	33.1	25.3	46.8	42.9	17.5	11.7	9.7	9.7
77.5°	1423.3	181.3	37.0	21.4	19.5	40.9	48.7	15.6	5.8	1.9	1.9
80°	259.3	78.0	23.4	13.6	13.6	25.3	37.0	7.8	0.0	0.0	0.0
82.5°	91.6	39.0	13.6	7.8	5.8	11.7	17.5	0.0	0.0	0.0	0.0
85°	52.6	27.3	7.8	3.9	0.0	1.9	3.9	0.0	0.0	0.0	0.0
87.5°	35.1	7.8	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)