

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: P957342

Luminaire Tested: **GALN-SB9D-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63745 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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



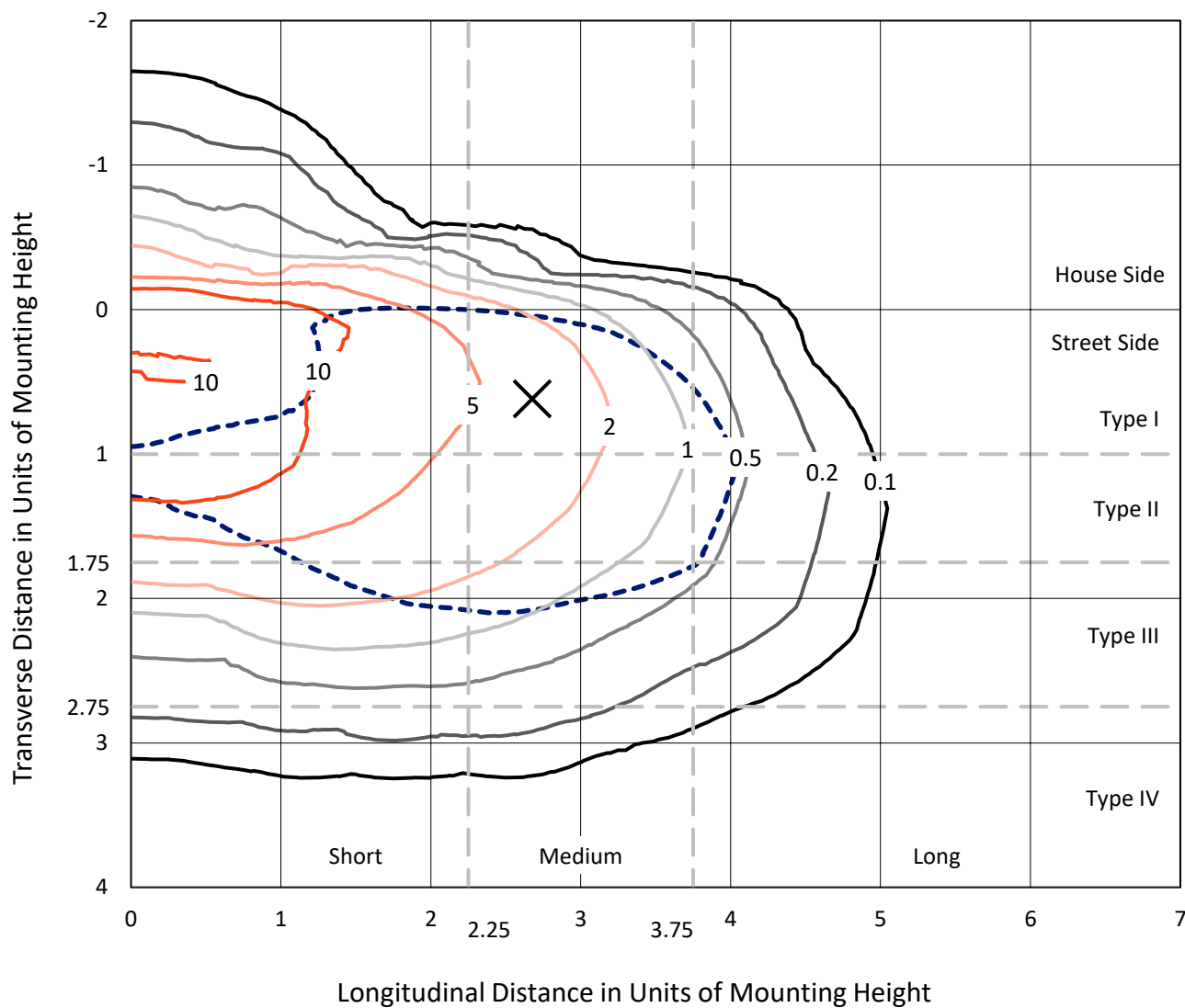
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Iso-Footcandle Lines of Horizontal Illumination

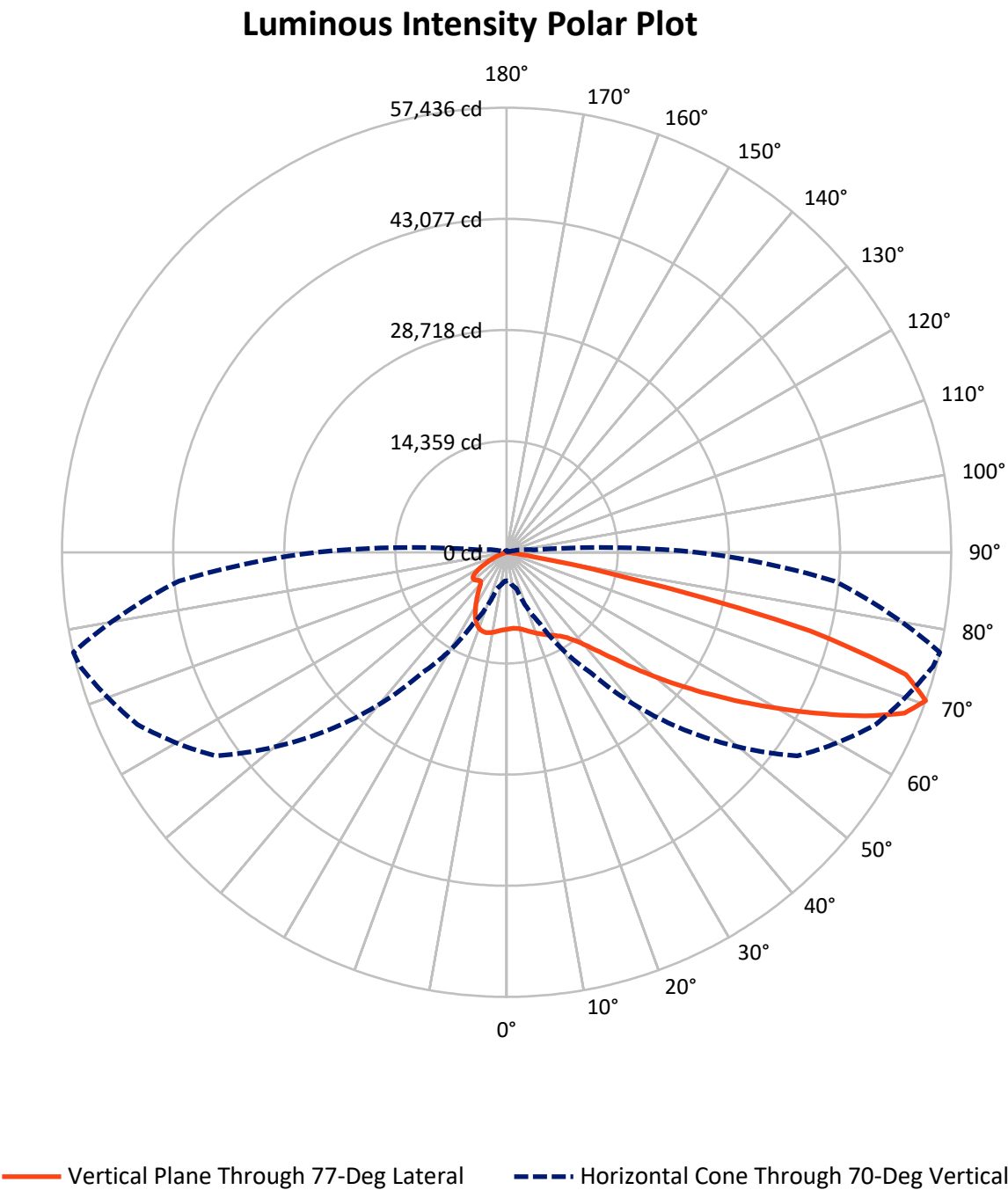
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
Type III - Medium - N/A

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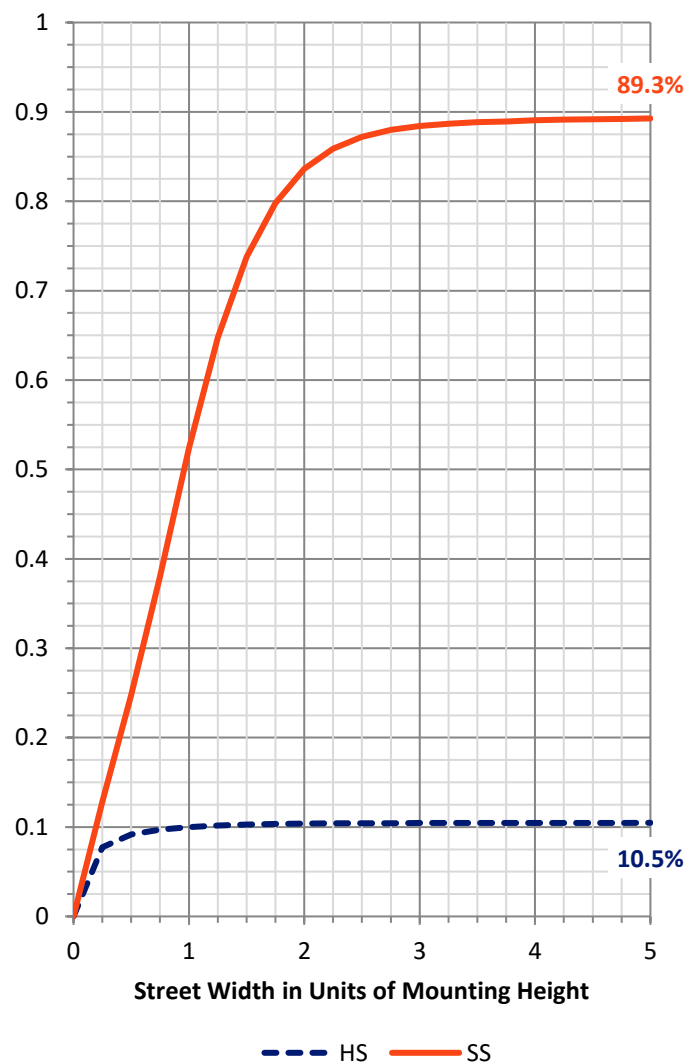
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6719.6	0.0	6719.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	57025.4	0.0	57025.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	63745.0	0.0	63745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.9	1.3
10°-20°	2034.3	3.2
20°-30°	3146.4	4.9
30°-40°	5709.4	9.0
40°-50°	10777.2	16.9
50°-60°	15572.1	24.4
60°-70°	16576.1	26.0
70°-80°	8784.2	13.8
80°-90°	288.4	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°	63745.0	100.0
0°-180°	63745.0	100.0

Coefficient of Utilization



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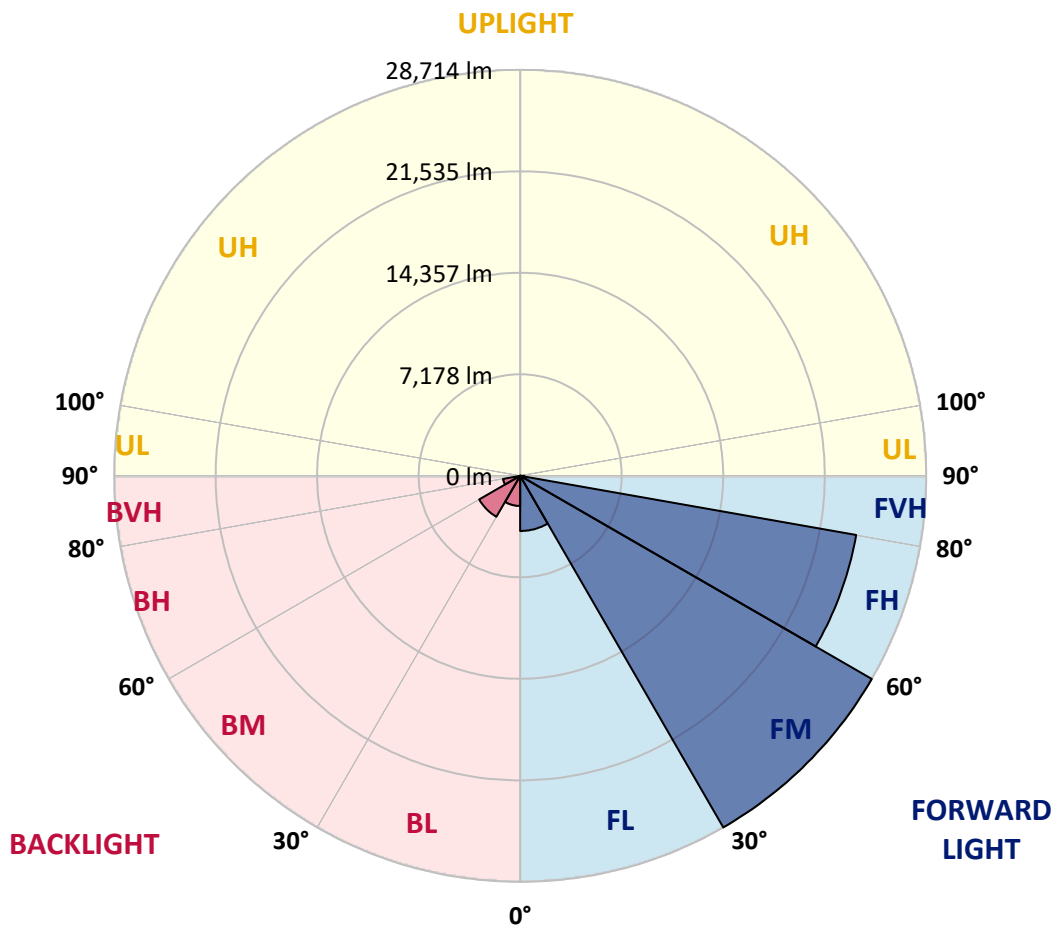
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3902.7	6.1			
FM	(30°-60°)	28713.6	45.0			
FH	(60°-80°)	24128.4	37.9			G5
FVH	(80°-90°)	280.7	0.4			G3/500
BL	(0°-30°)	2134.9	3.3	B3/2500		
BM	(30°-60°)	3345.1	5.2	B3/5000		
BH	(60°-80°)	1231.9	1.9	B3/2500		G3/2500
BVH	(80°-90°)	7.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1
2.5°	9335.2	9419.7	9407.7	9464.0	9484.2	9564.7	9645.2	9753.9	9874.6	9870.6	9951.1
5°	8807.9	8892.4	8912.5	8989.0	9085.6	9210.4	9375.5	9592.8	9818.3	9854.5	10015.5
7.5°	8183.9	8272.5	8324.8	8477.8	8654.9	8912.5	9182.2	9500.3	9874.6	9927.0	10236.9
10°	7560.0	7640.5	7708.9	7926.3	8208.1	8590.5	9029.3	9488.2	9991.4	10067.9	10506.6
12.5°	7173.5	7250.0	7326.5	7515.7	7865.9	8332.9	8928.6	9544.5	10184.6	10293.3	10873.0
15°	7036.6	7105.1	7165.5	7334.5	7660.6	8192.0	8908.5	9661.3	10430.2	10575.1	11315.8
17.5°	7056.8	7093.0	7133.2	7262.1	7580.1	8127.6	8944.7	9862.6	10720.0	10848.8	11758.6
20°	7173.5	7193.6	7197.7	7286.2	7568.0	8119.5	9017.2	10055.8	10993.7	11166.8	12197.4
22.5°	7322.4	7330.5	7322.4	7382.8	7644.5	8179.9	9113.8	10289.3	11299.7	11460.7	12640.2
25°	8018.9	7865.9	7672.7	7555.9	7773.3	8296.6	9258.7	10603.3	11633.8	11790.8	13070.9
27.5°	10180.6	9741.8	9049.4	8272.5	8039.0	8465.7	9460.0	10921.3	11971.9	12112.8	13533.8
30°	13690.8	13115.2	11939.7	10188.6	8892.4	8819.9	9721.7	11239.3	12330.2	12483.2	14029.0
32.5°	17209.2	17068.3	15711.7	13288.3	10812.6	9608.9	10156.4	11670.0	12805.2	12926.0	14697.2
35°	20767.7	20481.9	19370.9	16975.7	13771.4	11215.1	10881.0	12233.6	13429.2	13566.0	15671.4
37.5°	23493.0	23319.9	22631.6	20659.0	17281.6	13694.9	12120.9	13107.1	14334.9	14487.9	16919.3
40°	25900.3	25819.8	25586.3	24286.0	21206.5	16939.4	14049.1	14459.7	15590.9	15772.0	18449.0
42.5°	27792.3	27981.5	28114.3	27752.0	25252.2	20642.9	16641.6	16359.8	17342.0	17527.2	20397.4
45°	29728.6	29793.0	30328.4	30851.7	29269.7	24515.5	19564.1	18585.9	19519.8	19749.3	22732.2
47.5°	30972.5	31230.1	32172.1	33093.9	32647.1	28355.9	22704.0	21214.6	22043.8	22474.6	25348.8
50°	31065.0	31552.1	32848.4	34454.5	35106.7	32011.0	26117.7	24209.6	25091.2	25566.2	28142.5
52.5°	29523.3	30280.1	32288.8	34639.7	36435.1	35106.7	29648.1	27204.6	28335.7	28955.7	31040.9
55°	22635.6	23625.9	30183.5	33633.3	36487.4	37453.6	33085.9	30324.3	31950.7	32651.1	34172.8
57.5°	19721.1	20220.3	23730.5	31886.3	35517.3	38399.6	36193.6	33295.2	35883.6	36753.1	37131.5
60°	16408.1	17064.2	19902.2	29028.1	34200.9	38492.2	38939.0	37127.5	40146.6	41124.9	39844.7
62.5°	11150.7	11863.2	14685.1	24117.0	32401.5	38447.9	41189.3	41072.5	44884.7	45935.4	42143.3
65°	6907.8	7354.7	9214.4	19692.9	29885.6	38496.2	43544.2	45862.9	49884.4	50951.2	43922.6
67.5°	5458.6	5663.9	6634.1	15119.9	25550.1	37409.3	45895.1	50367.5	54590.3	55435.6	44466.0
70°	3667.3	3792.1	4826.6	10136.3	19008.6	32393.5	45850.8	52629.8	57013.6	57436.3	42485.5
72.5°	1932.3	2028.9	2821.9	4693.8	11480.8	23026.1	38649.2	49924.7	54602.3	53966.3	36314.3
75°	966.1	1127.1	1900.1	2383.1	4903.1	12841.5	24000.2	39361.7	42976.6	40513.0	23299.8
77.5°	732.6	885.6	1570.0	1570.0	1706.8	4323.4	10164.5	21468.2	19801.6	16488.6	6839.4
80°	467.0	603.8	1372.7	1187.5	712.5	1099.0	2648.8	6014.1	4206.7	3200.3	1243.9
82.5°	273.7	394.5	1143.3	785.0	398.5	406.6	748.7	1280.1	1090.9	849.4	382.4
85°	108.7	257.6	785.0	310.0	157.0	100.6	225.4	273.7	225.4	169.1	96.6
87.5°	0.0	60.4	136.9	0.0	12.1	8.1	16.1	20.1	20.1	16.1	32.2
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°	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1
2.5°	9987.3	9995.4	10019.6	10023.6	9967.2	9894.8	9866.6	9854.5	9806.2	9802.2	9810.2
5°	10108.1	10144.3	10108.1	10003.5	9753.9	9403.6	9138.0	8920.6	8723.3	8662.9	8626.7
7.5°	10349.6	10385.9	10277.2	9866.6	9238.6	8542.2	7914.2	7471.4	7072.9	6923.9	6863.5
10°	10695.8	10744.1	10402.0	9572.7	8461.7	7342.6	6279.8	5531.1	4947.4	4709.9	4609.2
12.5°	11130.6	11150.7	10470.4	9125.9	7451.3	5853.1	4347.6	3546.5	3027.2	2834.0	2773.6
15°	11609.6	11581.5	10478.5	8518.0	6074.5	4138.2	2838.0	2330.8	2121.5	2057.0	2057.0
17.5°	12112.8	11996.1	10317.4	7640.5	4565.0	2830.0	2105.4	1984.6	1948.4	1932.3	1928.2
20°	12608.0	12346.3	10023.6	6493.2	3276.8	2113.4	1912.1	1875.9	1855.8	1847.7	1839.7
22.5°	13058.8	12612.0	9520.4	5160.7	2379.1	1867.8	1807.5	1775.3	1739.0	1722.9	1718.9
25°	13497.6	12765.0	8811.9	3916.8	1904.1	1747.1	1698.8	1638.4	1590.1	1570.0	1561.9
27.5°	13924.3	12861.6	7926.3	2898.4	1698.8	1634.4	1545.8	1461.3	1425.0	1417.0	1408.9
30°	14379.2	12893.8	6919.9	2161.7	1574.0	1493.5	1364.7	1268.0	1247.9	1251.9	1251.9
32.5°	14934.7	12942.1	5905.5	1771.2	1469.3	1324.4	1171.4	1070.8	1054.7	1070.8	1066.8
35°	15598.9	13038.7	4927.3	1630.3	1376.7	1151.3	986.3	901.7	885.6	897.7	893.7
37.5°	16500.7	13195.7	4013.5	1602.2	1300.2	1006.4	829.3	760.8	760.8	764.9	760.8
40°	17700.3	13614.4	3196.3	1582.0	1260.0	897.7	700.4	672.3	684.3	692.4	692.4
42.5°	19161.5	14504.0	2644.8	1557.9	1215.7	849.4	636.0	624.0	644.1	652.1	652.1
45°	20799.9	15631.1	2451.6	1517.6	1175.5	881.6	607.9	591.8	615.9	619.9	624.0
47.5°	22494.7	16734.1	2427.4	1473.3	1135.2	929.9	599.8	563.6	591.8	595.8	599.8
50°	24209.6	17454.7	2451.6	1404.9	1070.8	929.9	603.8	535.4	559.5	571.6	575.7
52.5°	25936.5	17784.8	2435.4	1256.0	958.1	873.5	603.8	511.2	535.4	543.4	543.4
55°	27611.1	17720.4	2189.9	1034.6	813.2	772.9	587.7	491.1	507.2	511.2	511.2
57.5°	28935.5	16822.7	1735.0	805.1	660.2	644.1	535.4	467.0	479.0	475.0	475.0
60°	29627.9	14850.2	1239.9	619.9	519.3	507.2	471.0	434.8	442.8	422.7	418.7
62.5°	29636.0	12241.6	829.3	491.1	414.6	402.6	402.6	390.5	382.4	342.2	330.1
65°	29004.0	9347.3	551.5	390.5	334.1	314.0	338.1	334.1	305.9	249.6	241.5
67.5°	27570.9	6126.9	418.7	305.9	257.6	245.6	269.7	281.8	261.7	209.3	205.3
70°	24624.2	3566.6	346.2	237.5	193.2	181.1	217.4	241.5	217.4	169.1	161.0
72.5°	20453.7	1924.2	281.8	177.1	132.8	120.8	173.1	197.3	173.1	124.8	120.8
75°	13272.2	1030.5	217.4	116.7	68.4	76.5	128.8	144.9	120.8	80.5	72.5
77.5°	4456.3	454.9	136.9	56.4	32.2	32.2	76.5	88.6	56.4	28.2	24.2
80°	994.3	189.2	56.4	24.2	12.1	12.1	16.1	16.1	8.1	0.0	0.0
82.5°	326.1	76.5	24.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	124.8	28.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	48.3	4.0	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)