

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: P954507

Luminaire Tested: **GALN-SB7D-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954507
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-SB7D-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 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: 55884 lumens
Efficiency: N/A
Efficacy: 109.0 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): 512.8
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



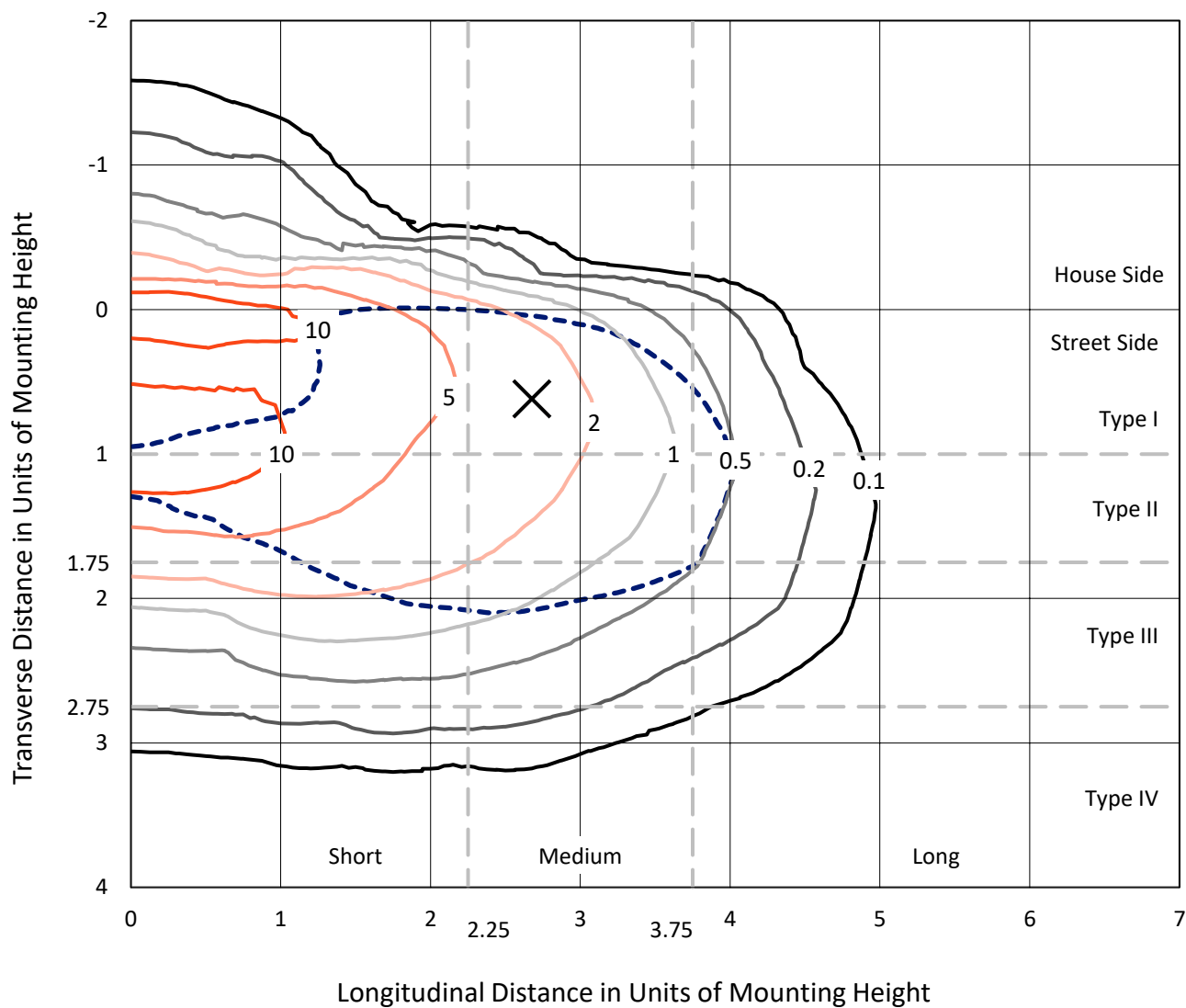
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

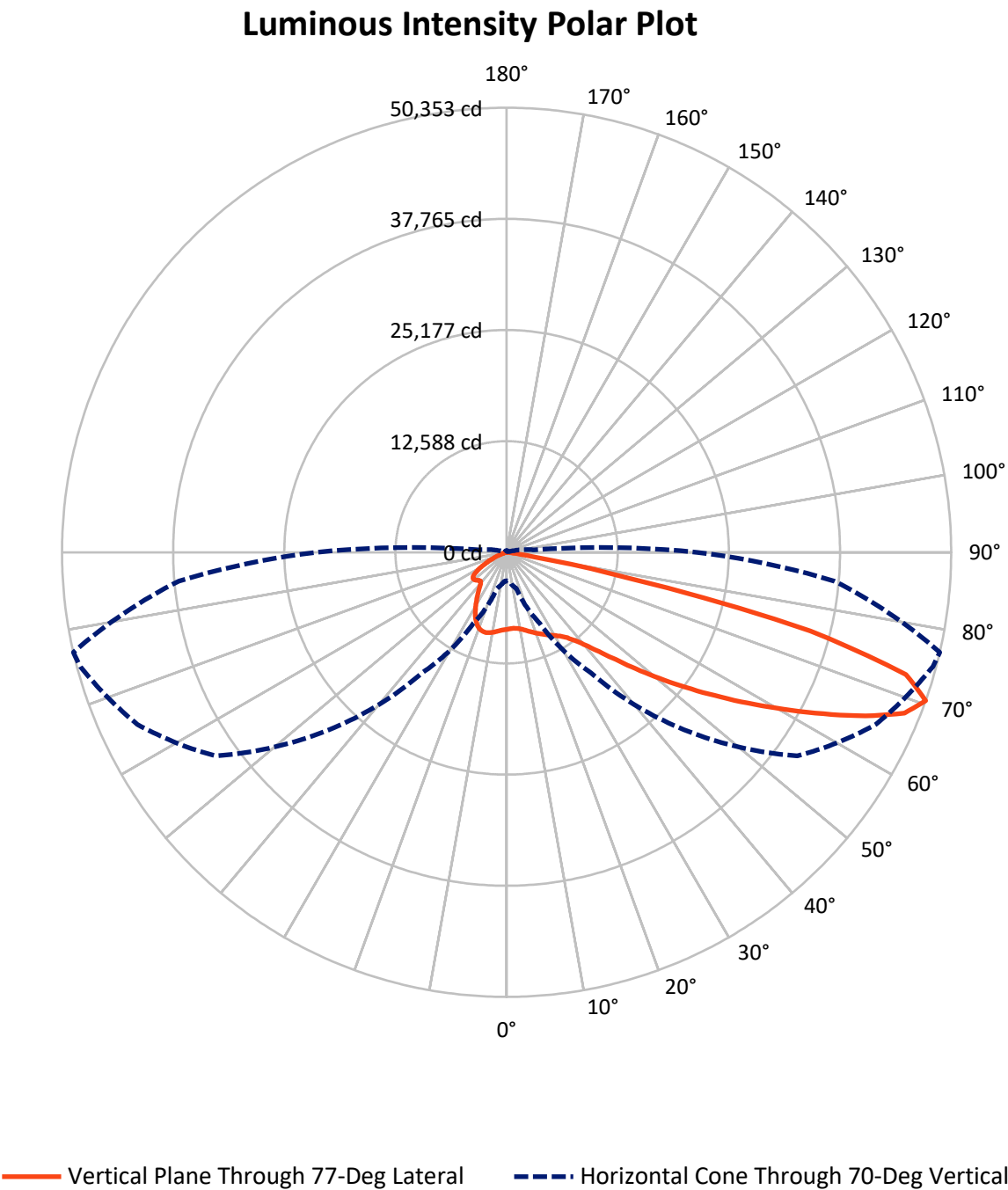
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc

Type III - Medium - N/A

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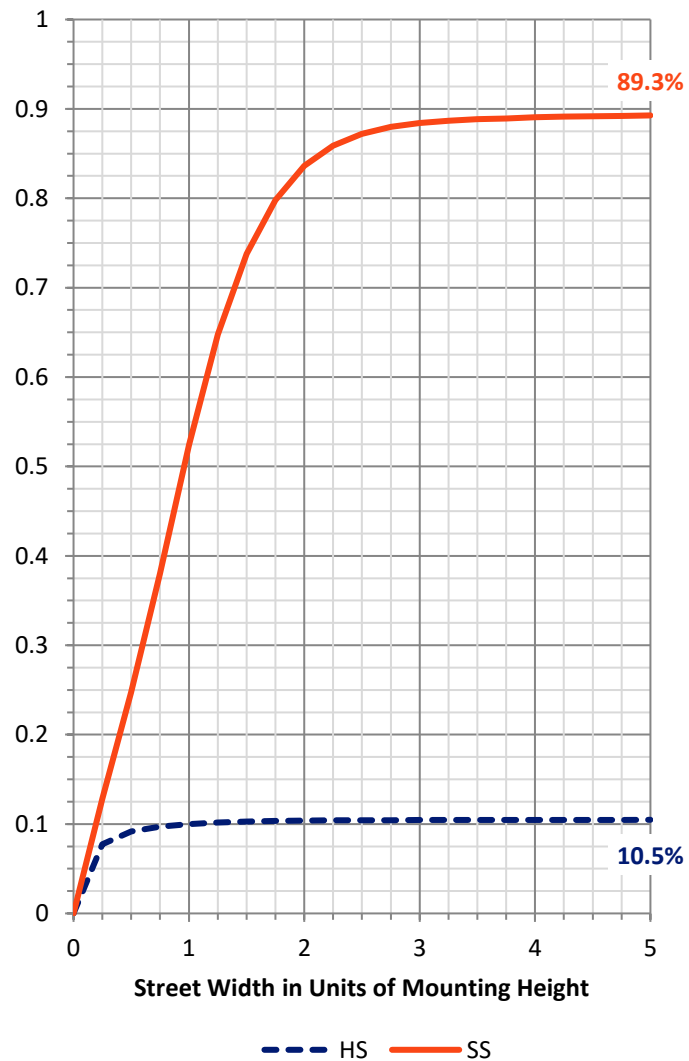
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5891.0	0.0	5891.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	49993.0	0.0	49993.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	55884.0	0.0	55884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.3	1.3
10°-20°	1783.4	3.2
20°-30°	2758.4	4.9
30°-40°	5005.3	9.0
40°-50°	9448.1	16.9
50°-60°	13651.8	24.4
60°-70°	14531.9	26.0
70°-80°	7700.9	13.8
80°-90°	252.9	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°	55884.0	100.0
0°-180°	55884.0	100.0

Coefficient of Utilization



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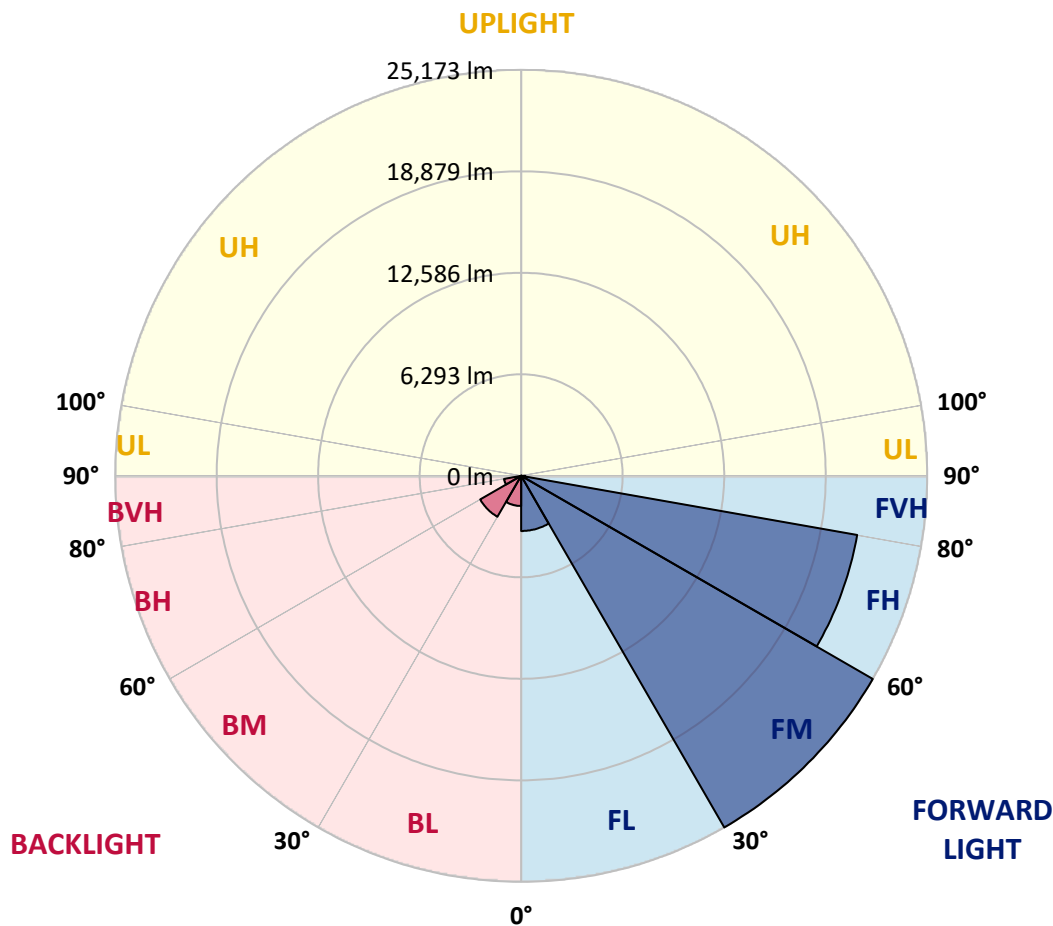
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3421.4	6.1			
FM	(30°-60°)	25172.7	45.0			
FH	(60°-80°)	21152.9	37.9			G5
FVH	(80°-90°)	246.1	0.4			G3/500
BL	(0°-30°)	1871.7	3.3	B3/2500		
BM	(30°-60°)	2932.5	5.2	B3/5000		
BH	(60°-80°)	1080.0	1.9	B3/2500		G3/2500
BVH	(80°-90°)	6.8	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°	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9
2.5°	8184.0	8258.1	8247.5	8296.9	8314.6	8385.2	8455.7	8551.0	8656.9	8653.4	8724.0
5°	7721.7	7795.8	7813.4	7880.5	7965.2	8074.6	8219.3	8409.9	8607.5	8639.3	8780.4
7.5°	7174.7	7252.3	7298.2	7432.3	7587.6	7813.4	8049.9	8328.7	8656.9	8702.8	8974.5
10°	6627.7	6698.2	6758.2	6948.8	7195.8	7531.1	7915.8	8318.1	8759.2	8826.3	9211.0
12.5°	6288.9	6355.9	6423.0	6588.8	6895.9	7305.3	7827.6	8367.5	8928.6	9023.9	9532.1
15°	6168.9	6228.9	6281.8	6430.0	6715.9	7181.7	7809.9	8469.9	9143.9	9271.0	9920.3
17.5°	6186.5	6218.3	6253.6	6366.5	6645.3	7125.3	7841.7	8646.3	9398.0	9510.9	10308.5
20°	6288.9	6306.5	6310.0	6387.7	6634.7	7118.2	7905.2	8815.7	9638.0	9789.7	10693.2
22.5°	6419.4	6426.5	6419.4	6472.4	6701.8	7171.1	7989.9	9020.4	9906.2	10047.4	11081.4
25°	7030.0	6895.9	6726.5	6624.1	6814.7	7273.5	8116.9	9295.7	10199.1	10336.8	11459.0
27.5°	8925.1	8540.4	7933.4	7252.3	7047.6	7421.7	8293.4	9574.5	10495.6	10619.1	11864.9
30°	12002.5	11497.8	10467.3	8932.2	7795.8	7732.3	8522.8	9853.3	10809.7	10943.8	12298.9
32.5°	15086.9	14963.4	13774.1	11649.6	9479.2	8424.0	8903.9	10230.9	11226.1	11332.0	12884.8
35°	18206.7	17956.1	16982.1	14882.2	12073.1	9832.1	9539.2	10725.0	11773.1	11893.1	13738.8
37.5°	20595.9	20444.1	19840.6	18111.4	15150.5	12006.0	10626.1	11490.8	12567.2	12701.3	14832.8
40°	22706.3	22635.7	22431.0	21291.1	18591.3	14850.5	12316.6	12676.6	13668.2	13827.0	16173.9
42.5°	24365.0	24530.8	24647.3	24329.7	22138.1	18097.3	14589.3	14342.3	15203.4	15365.7	17882.0
45°	26062.5	26118.9	26588.3	27047.1	25660.1	21492.3	17151.5	16293.9	17112.6	17313.8	19928.9
47.5°	27153.0	27378.8	28204.6	29012.8	28621.1	24859.0	19904.2	18598.4	19325.4	19703.0	22222.8
50°	27234.1	27661.1	28797.5	30205.6	30777.3	28063.5	22896.8	21224.1	21996.9	22413.4	24672.0
52.5°	25882.5	26545.9	28307.0	30368.0	31941.9	30777.3	25991.9	23849.7	24841.4	25384.9	27212.9
55°	19844.2	20712.3	26461.2	29485.7	31987.8	32834.8	29005.7	26584.8	28010.5	28624.6	29958.6
57.5°	17289.1	17726.7	20804.1	27954.1	31137.3	33664.2	31730.2	29189.2	31458.5	32220.7	32552.5
60°	14384.6	14959.9	17447.9	25448.4	29983.3	33745.3	34137.1	32549.0	35195.8	36053.4	34931.1
62.5°	9775.6	10400.3	12874.2	21142.9	28405.8	33706.5	36109.8	36007.5	39349.5	40270.6	36946.2
65°	6055.9	6447.7	8078.1	17264.4	26200.1	33748.9	38174.4	40207.1	43732.7	44667.9	38506.1
67.5°	4785.5	4965.5	5816.0	13255.3	22399.2	32796.0	40235.4	44156.2	47858.2	48599.3	38982.5
70°	3215.0	3324.4	4231.4	8886.3	16664.4	28398.7	40196.5	46139.5	49982.7	50353.3	37246.2
72.5°	1694.0	1778.7	2473.9	4114.9	10065.0	20186.5	33883.0	43768.0	47868.8	47311.2	31836.1
75°	847.0	988.2	1665.7	2089.2	4298.5	11257.9	21040.5	34507.6	37676.7	35516.9	20426.5
77.5°	642.3	776.4	1376.4	1376.4	1496.3	3790.3	8911.0	18820.7	17359.7	14455.2	5996.0
80°	409.4	529.4	1203.4	1041.1	624.7	963.4	2322.2	5272.5	3687.9	2805.6	1090.5
82.5°	240.0	345.9	1002.3	688.2	349.4	356.4	656.4	1122.3	956.4	744.6	335.3
85°	95.3	225.9	688.2	271.7	137.6	88.2	197.6	240.0	197.6	148.2	84.7
87.5°	0.0	52.9	120.0	0.0	10.6	7.1	14.1	17.6	17.6	14.1	28.2
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°	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9	8716.9
2.5°	8755.7	8762.8	8783.9	8787.5	8738.1	8674.5	8649.8	8639.3	8596.9	8593.4	8600.4
5°	8861.6	8893.4	8861.6	8769.8	8551.0	8244.0	8011.1	7820.5	7647.6	7594.6	7562.9
7.5°	9073.3	9105.1	9009.8	8649.8	8099.3	7488.8	6938.2	6550.0	6200.6	6070.1	6017.1
10°	9376.8	9419.2	9119.2	8392.2	7418.2	6437.1	5505.4	4849.0	4337.3	4129.1	4040.8
12.5°	9758.0	9775.6	9179.2	8000.5	6532.4	5131.3	3811.4	3109.1	2653.9	2484.5	2431.6
15°	10177.9	10153.2	9186.3	7467.6	5325.4	3627.9	2488.0	2043.4	1859.8	1803.4	1803.4
17.5°	10619.1	10516.7	9045.1	6698.2	4002.0	2481.0	1845.7	1739.8	1708.1	1694.0	1690.4
20°	11053.2	10823.8	8787.5	5692.4	2872.7	1852.8	1676.3	1644.6	1626.9	1619.9	1612.8
22.5°	11448.4	11056.7	8346.3	4524.3	2085.7	1637.5	1584.6	1556.3	1524.6	1510.5	1506.9
25°	11833.1	11190.8	7725.2	3433.8	1669.3	1531.6	1489.3	1436.3	1394.0	1376.4	1369.3
27.5°	12207.2	11275.5	6948.8	2541.0	1489.3	1432.8	1355.2	1281.1	1249.3	1242.2	1235.2
30°	12606.0	11303.7	6066.5	1895.1	1379.9	1309.3	1196.4	1111.7	1094.0	1097.6	1097.6
32.5°	13093.0	11346.1	5177.2	1552.8	1288.1	1161.1	1027.0	938.7	924.6	938.7	935.2
35°	13675.3	11430.8	4319.6	1429.3	1207.0	1009.3	864.6	790.5	776.4	787.0	783.5
37.5°	14465.8	11568.4	3518.5	1404.6	1139.9	882.3	727.0	667.0	667.0	670.5	667.0
40°	15517.5	11935.4	2802.1	1386.9	1104.6	787.0	614.1	589.4	599.9	607.0	607.0
42.5°	16798.6	12715.4	2318.6	1365.8	1065.8	744.6	557.6	547.0	564.7	571.7	571.7
45°	18234.9	13703.5	2149.2	1330.5	1030.5	772.9	532.9	518.8	540.0	543.5	547.0
47.5°	19720.7	14670.5	2128.1	1291.7	995.2	815.2	525.8	494.1	518.8	522.3	525.8
50°	21224.1	15302.2	2149.2	1231.7	938.7	815.2	529.4	469.4	490.5	501.1	504.7
52.5°	22738.0	15591.6	2135.1	1101.1	839.9	765.8	529.4	448.2	469.4	476.4	476.4
55°	24206.1	15535.1	1919.8	907.0	712.9	677.6	515.2	430.6	444.7	448.2	448.2
57.5°	25367.2	14748.1	1521.0	705.8	578.8	564.7	469.4	409.4	420.0	416.4	416.4
60°	25974.2	13018.9	1087.0	543.5	455.3	444.7	412.9	381.1	388.2	370.6	367.0
62.5°	25981.3	10732.0	727.0	430.6	363.5	352.9	352.9	342.3	335.3	300.0	289.4
65°	25427.2	8194.6	483.5	342.3	292.9	275.3	296.4	292.9	268.2	218.8	211.7
67.5°	24170.9	5371.3	367.0	268.2	225.9	215.3	236.5	247.0	229.4	183.5	180.0
70°	21587.5	3126.8	303.5	208.2	169.4	158.8	190.6	211.7	190.6	148.2	141.2
72.5°	17931.4	1686.9	247.0	155.3	116.5	105.9	151.8	172.9	151.8	109.4	105.9
75°	11635.5	903.5	190.6	102.3	60.0	67.1	112.9	127.0	105.9	70.6	63.5
77.5°	3906.7	398.8	120.0	49.4	28.2	28.2	67.1	77.6	49.4	24.7	21.2
80°	871.7	165.9	49.4	21.2	10.6	10.6	14.1	14.1	7.1	0.0	0.0
82.5°	285.9	67.1	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	109.4	24.7	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	42.3	3.5	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)