

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: P530203

Luminaire Tested: **GALN-SA5B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16892 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 204
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



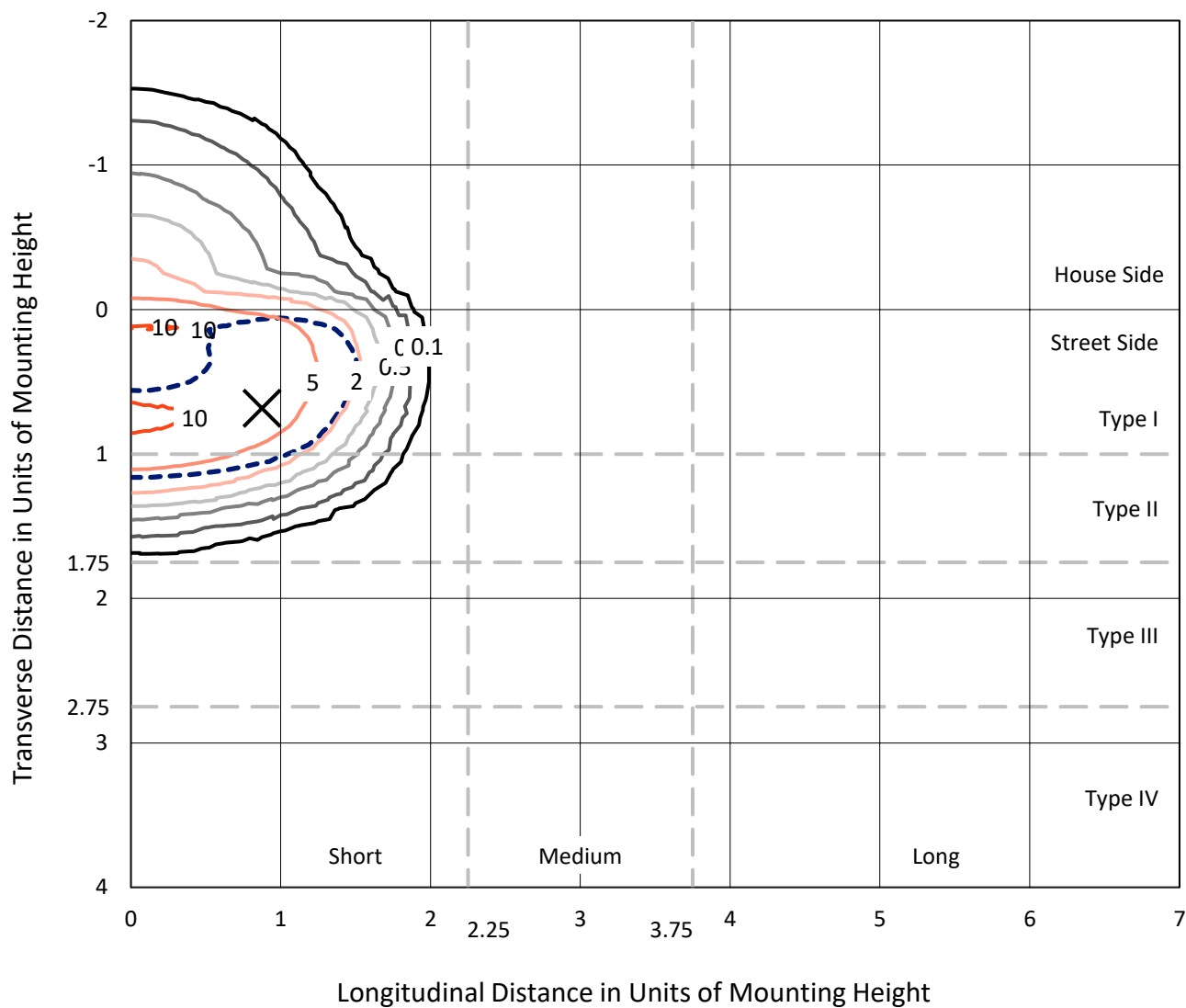
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

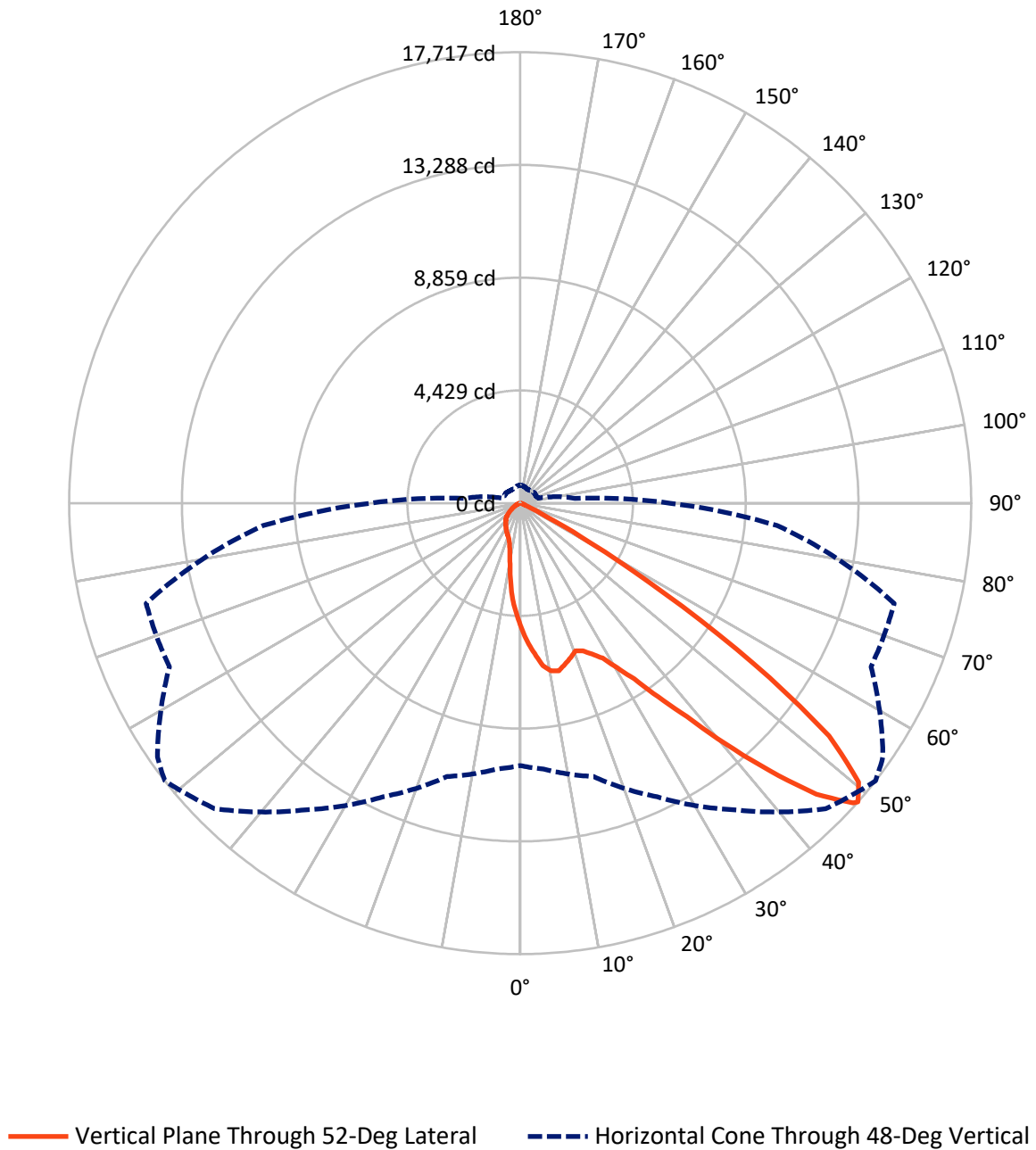


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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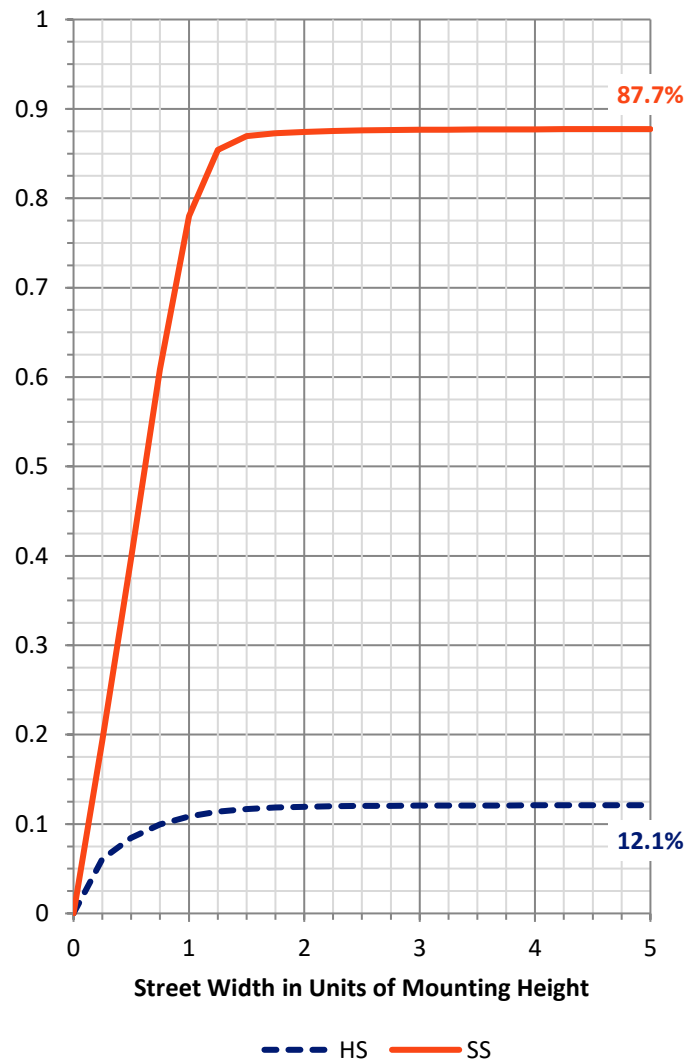
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2056.7	0.0	2056.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	14835.3	0.0	14835.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	16892.0	0.0	16892.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.5	2.6
10°-20°	1166.8	6.9
20°-30°	1992.3	11.8
30°-40°	3668.8	21.7
40°-50°	5697.6	33.7
50°-60°	3429.0	20.3
60°-70°	396.6	2.3
70°-80°	76.8	0.5
80°-90°	17.8	0.1
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°	16892.0	100.0
0°-180°	16892.0	100.0

Coefficient of Utilization



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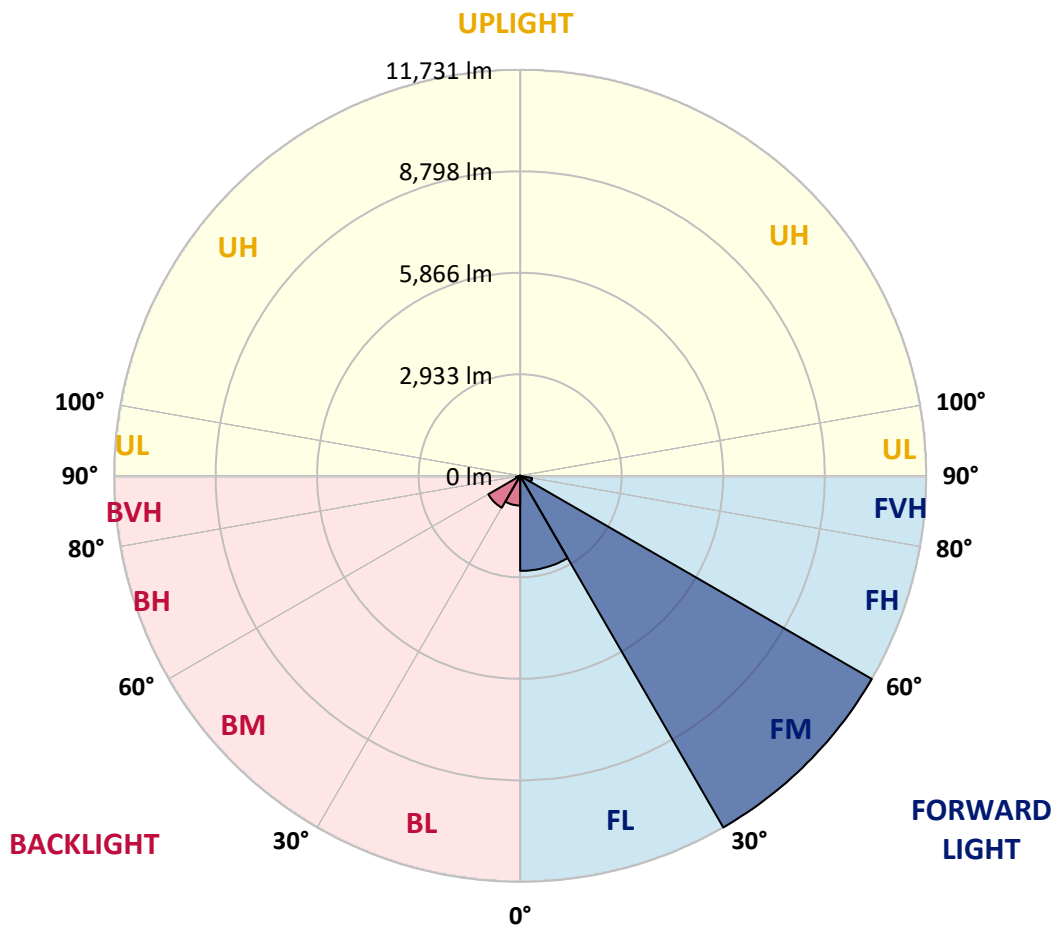
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.4	16.3			
FM	(30°-60°)	11731.2	69.4			
FH	(60°-80°)	349.2	2.1			G0/660
FVH	(80°-90°)	8.4	0.1			G0/10
BL	(0°-30°)	859.2	5.1	B2/1000		
BM	(30°-60°)	1064.1	6.3	B2/2500		
BH	(60°-80°)	124.1	0.7	B1/500		G1/500
BVH	(80°-90°)	9.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1
2.5°	5912.4	5776.9	5789.2	5700.6	5648.9	5565.2	5451.9	5429.7	5306.6	5139.1	4969.2
5°	6444.3	6412.2	6454.1	6326.1	6331.0	6193.1	5927.1	5932.1	5648.9	5375.5	5112.1
7.5°	6478.7	6404.9	6446.7	6560.0	6626.5	6601.8	6451.6	6321.1	6052.7	5651.3	5267.2
10°	5801.6	5941.9	5986.2	6173.4	6439.3	6720.0	6702.8	6710.2	6486.1	5961.6	5400.2
12.5°	5395.2	5301.7	5451.9	5565.2	5966.5	6510.7	6759.4	6813.6	6830.9	6262.0	5533.1
15°	5210.6	5210.6	5235.2	5267.2	5557.8	6060.1	6567.4	6725.0	7096.8	6656.0	5742.5
17.5°	5326.3	5321.4	5355.8	5289.4	5397.7	5784.3	6390.1	6569.8	7394.8	7042.6	5907.4
20°	5678.4	5695.7	5673.5	5481.4	5488.8	5779.4	6193.1	6476.3	7596.7	7377.5	6126.6
22.5°	6168.5	6178.3	6052.7	5843.4	5781.9	5924.7	6306.4	6523.1	7759.2	7778.9	6193.1
25°	6734.8	6695.4	6670.8	6375.3	6188.2	6311.3	6562.5	6688.0	7860.2	8123.6	6382.7
27.5°	7520.3	7441.5	7291.3	7027.9	6890.0	6715.1	6894.9	7101.7	8148.3	8606.3	6589.5
30°	8680.2	8611.2	8318.2	7978.4	7616.4	7444.0	7500.6	7613.9	8667.9	9165.3	6862.9
32.5°	10426.0	10280.8	9857.2	9209.6	8717.1	8241.8	8227.1	8347.7	9133.3	9938.5	7187.9
35°	12349.2	12304.9	11681.9	11014.6	10061.6	9327.8	9340.1	9404.1	10024.7	10953.0	7613.9
37.5°	13627.2	13871.0	13474.6	12758.0	11957.7	10908.7	10642.7	10664.9	11248.5	12154.7	8382.2
40°	14614.7	14407.8	14454.6	14287.2	13740.5	13026.4	12437.9	12322.1	12664.4	13484.4	9145.6
42.5°	14183.8	14193.6	14481.7	14878.2	15013.6	14961.9	14361.1	14141.9	13876.0	14572.8	9872.0
45°	12967.3	13220.9	13595.2	14644.2	15565.2	16429.5	16311.3	15946.9	14713.2	15434.7	10290.6
47.5°	11026.9	11017.0	11630.2	12994.4	15040.7	17064.8	17601.6	17345.6	15306.6	15338.7	10204.4
48°	10310.3	10487.6	11120.5	12726.0	14708.3	16971.3	17717.4	17394.8	15205.7	15210.6	10130.6
50°	7621.3	7589.3	8377.3	10347.2	13137.2	15946.9	17229.8	17481.0	15203.2	14563.0	9613.4
52.5°	4026.1	4164.0	4737.8	6505.8	9288.4	13051.0	15198.3	15589.8	14666.4	13504.1	8869.8
55°	1711.4	1546.4	1987.2	2937.7	5225.3	8719.6	11150.0	12021.7	12400.9	11950.3	7759.2
57.5°	610.7	667.3	768.3	1105.6	2196.5	4772.2	6648.6	7325.8	8591.5	8768.8	5286.9
60°	391.5	398.9	430.9	507.3	824.9	1839.5	3154.4	3693.7	4267.4	4405.3	2467.4
62.5°	302.9	305.3	320.1	332.4	391.5	714.1	1184.4	1403.6	1457.8	1253.4	647.6
65°	253.6	256.1	261.0	261.0	278.3	334.9	413.7	455.6	443.2	438.3	366.9
67.5°	194.5	199.5	209.3	209.3	219.2	204.4	229.0	243.8	275.8	334.9	312.7
70°	152.7	155.1	162.5	167.4	167.4	147.7	165.0	179.8	201.9	248.7	246.2
72.5°	118.2	123.1	128.0	128.0	120.7	101.0	118.2	130.5	145.3	172.4	167.4
75°	91.1	91.1	93.6	76.3	59.1	51.7	71.4	86.2	108.3	113.3	93.6
77.5°	24.6	27.1	24.6	22.2	24.6	36.9	46.8	54.2	68.9	68.9	61.6
80°	0.0	2.5	7.4	14.8	24.6	34.5	41.9	46.8	54.2	59.1	56.6
82.5°	0.0	2.5	7.4	14.8	22.2	27.1	36.9	39.4	44.3	51.7	51.7
85°	0.0	2.5	4.9	9.8	14.8	17.2	17.2	14.8	14.8	12.3	9.8
87.5°	0.0	0.0	2.5	4.9	4.9	7.4	7.4	7.4	7.4	7.4	7.4
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°	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1	4878.1
2.5°	4902.8	4826.4	4710.7	4528.5	4353.6	4240.4	4132.0	4011.3	3944.9	3939.9	3903.0
5°	4961.9	4789.5	4513.7	4201.0	3866.1	3578.0	3287.4	3097.8	2927.9	2834.3	2817.1
7.5°	4993.9	4769.8	4324.1	3799.6	3228.3	2758.0	2432.9	2194.0	2100.5	2031.5	2029.1
10°	5060.4	4735.3	4040.9	3267.7	2561.0	2085.7	1861.6	1753.3	1701.6	1681.9	1652.3
12.5°	5109.6	4671.3	3750.3	2721.0	2024.1	1728.6	1630.1	1605.5	1608.0	1617.8	1605.5
15°	5178.5	4614.6	3358.8	2233.4	1699.1	1556.3	1556.3	1561.2	1595.7	1600.6	1598.1
17.5°	5173.6	4503.8	2954.9	1839.5	1502.1	1482.4	1489.8	1536.6	1558.7	1566.1	1548.9
20°	5232.7	4400.4	2538.8	1571.0	1391.3	1420.8	1470.1	1482.4	1509.5	1514.4	1494.7
22.5°	5215.5	4141.9	2152.2	1359.3	1307.6	1364.2	1413.5	1428.2	1420.8	1406.1	1403.6
25°	5183.5	3920.2	1797.6	1218.9	1246.0	1307.6	1354.4	1327.3	1312.5	1315.0	1317.4
27.5°	5126.8	3639.5	1504.6	1120.4	1162.3	1253.4	1250.9	1241.1	1255.9	1243.5	1255.9
30°	5117.0	3358.8	1263.2	1031.8	1100.7	1167.2	1172.1	1189.4	1206.6	1184.4	1206.6
32.5°	5131.8	3051.0	1090.9	977.6	1063.8	1066.2	1120.4	1137.7	1125.3	1076.1	1081.0
35°	5245.0	2814.6	965.3	948.0	1004.7	1007.1	1058.9	1036.7	982.5	953.0	970.2
37.5°	5483.9	2617.6	906.2	921.0	925.9	957.9	960.4	916.0	921.0	918.5	928.3
40°	5789.2	2467.4	864.3	896.3	891.4	913.6	824.9	849.5	871.7	879.1	884.0
42.5°	5998.5	2359.0	837.2	856.9	847.1	807.7	758.4	783.1	800.3	827.4	832.3
45°	6092.1	2272.8	805.2	788.0	788.0	716.6	696.9	701.8	741.2	770.7	765.8
47.5°	5939.4	2189.1	748.6	696.9	714.1	655.0	632.9	632.9	674.7	711.7	704.3
48°	5880.3	2154.7	751.0	677.2	689.5	645.2	623.0	618.1	664.9	699.3	699.3
50°	5587.3	2026.6	687.0	623.0	598.4	593.5	578.7	583.6	613.2	645.2	645.2
52.5°	5016.0	1750.8	581.1	534.4	490.0	519.6	527.0	517.1	531.9	561.4	559.0
55°	4186.2	1344.5	465.4	443.2	408.8	440.8	455.6	443.2	428.5	450.6	450.6
57.5°	2681.6	724.0	371.8	376.8	342.3	374.3	386.6	357.1	330.0	347.2	344.7
60°	1209.1	433.4	305.3	298.0	275.8	312.7	332.4	298.0	261.0	273.3	285.6
62.5°	453.1	307.8	231.5	226.5	221.6	256.1	265.9	238.9	201.9	209.3	211.8
65°	332.4	270.9	184.7	167.4	177.3	201.9	197.0	169.9	145.3	145.3	150.2
67.5°	283.2	236.4	150.2	130.5	130.5	133.0	123.1	108.3	101.0	105.9	110.8
70°	221.6	187.1	118.2	101.0	91.1	81.3	71.4	68.9	61.6	68.9	66.5
72.5°	142.8	125.6	91.1	76.3	68.9	56.6	46.8	44.3	36.9	34.5	34.5
75°	76.3	76.3	71.4	61.6	54.2	44.3	36.9	29.5	19.7	14.8	14.8
77.5°	54.2	59.1	64.0	59.1	49.2	36.9	29.5	19.7	9.8	4.9	4.9
80°	51.7	59.1	64.0	56.6	49.2	36.9	27.1	14.8	7.4	2.5	2.5
82.5°	46.8	54.2	59.1	51.7	44.3	32.0	24.6	14.8	7.4	2.5	2.5
85°	9.8	12.3	14.8	14.8	17.2	22.2	17.2	12.3	4.9	2.5	2.5
87.5°	7.4	7.4	7.4	7.4	7.4	7.4	4.9	4.9	2.5	2.5	2.5
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)