

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: P531156

Luminaire Tested: **GALN-SA6B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22860 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 243
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



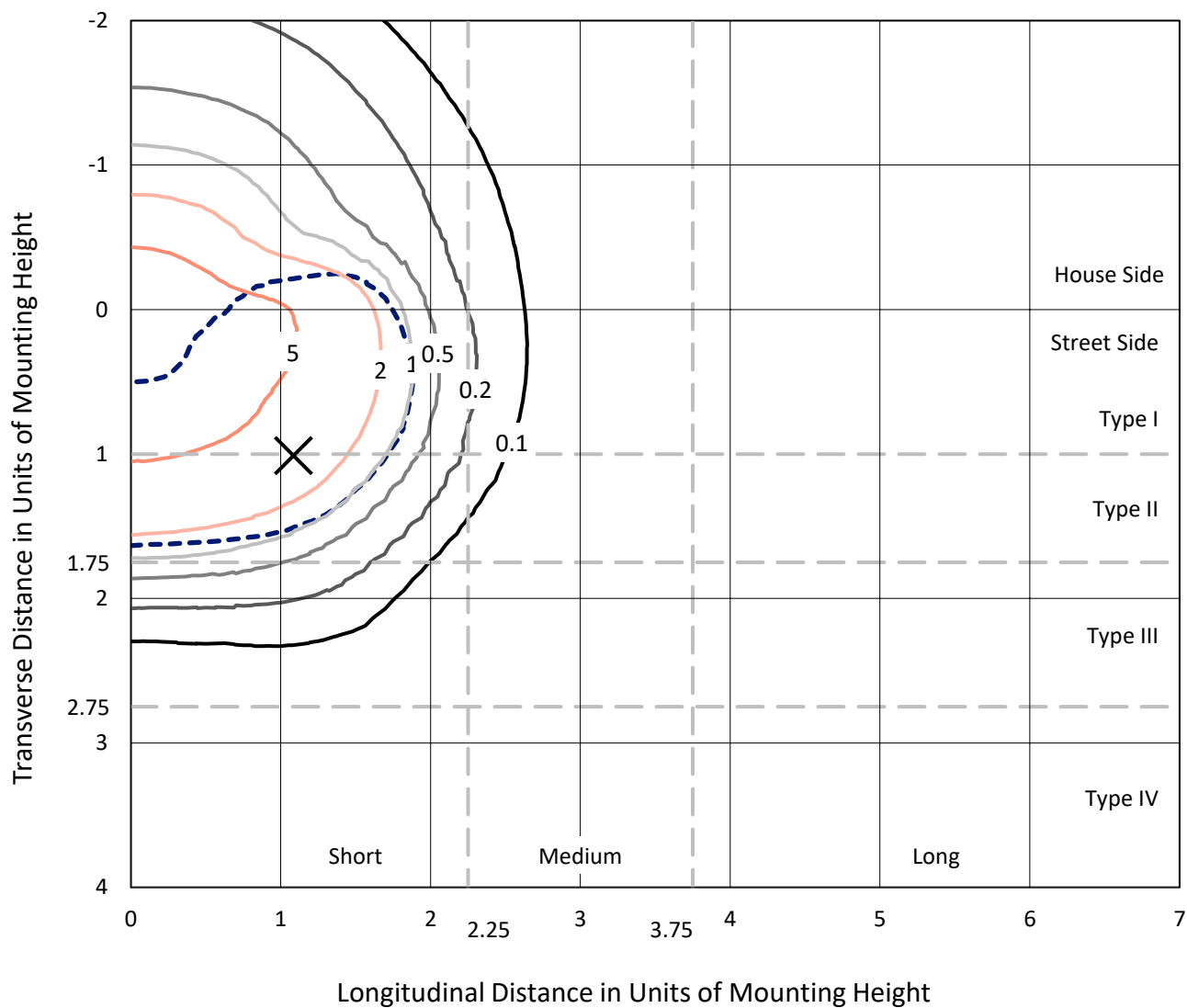
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

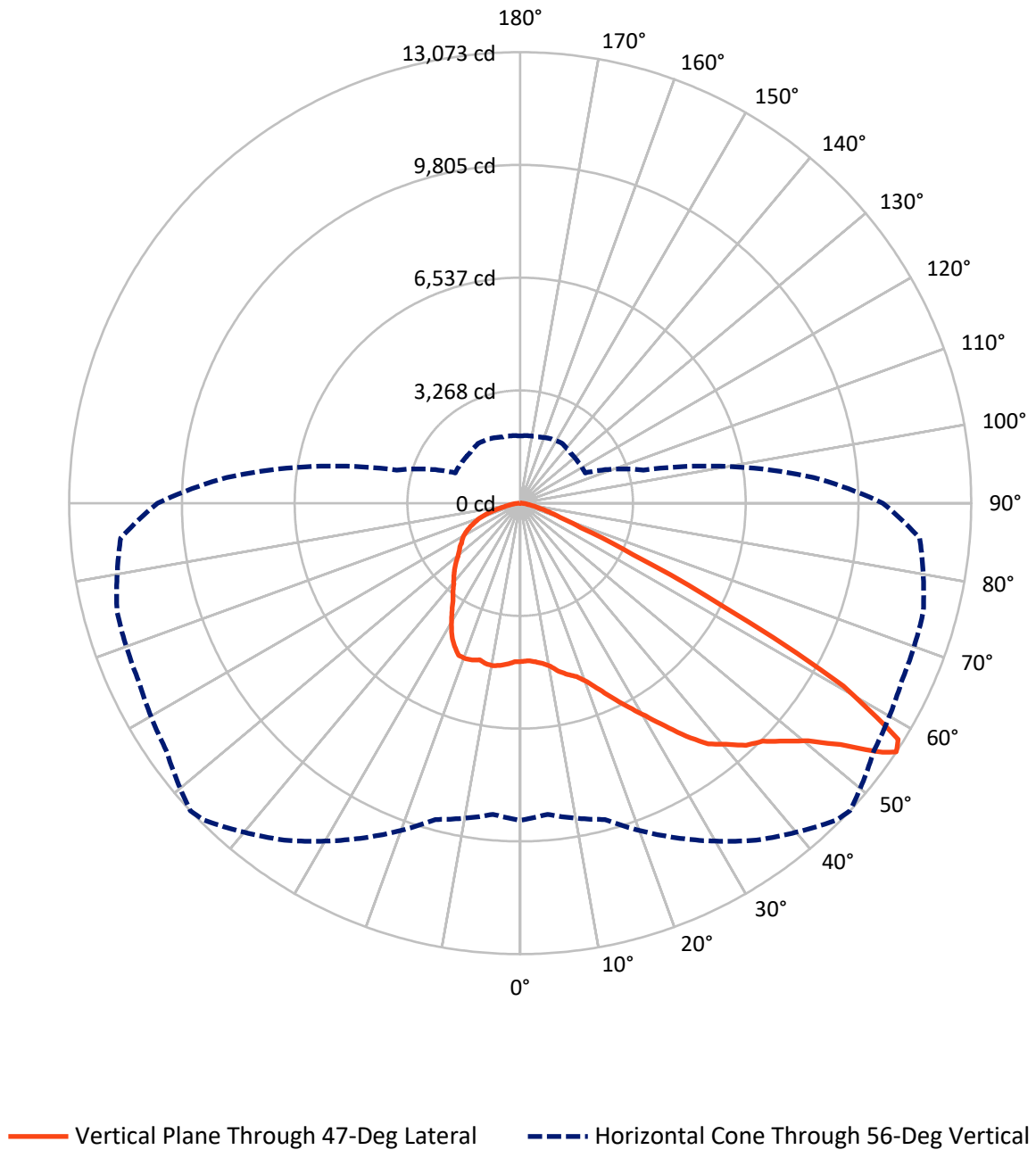
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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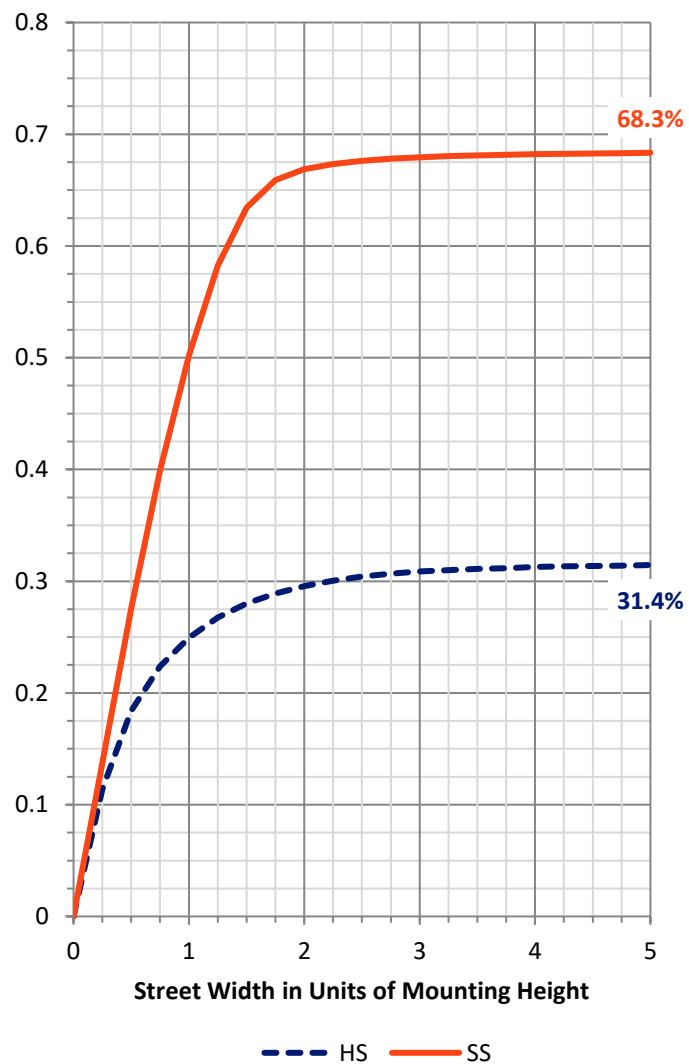
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7244.1	0.0	7244.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	15615.9	0.0	15615.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	22860.0	0.0	22860.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.4	2.0
10°-20°	1411.4	6.2
20°-30°	2495.0	10.9
30°-40°	3747.4	16.4
40°-50°	5142.9	22.5
50°-60°	6127.1	26.8
60°-70°	2622.0	11.5
70°-80°	742.0	3.2
80°-90°	124.9	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°	22860.0	100.0
0°-180°	22860.0	100.0

Coefficient of Utilization



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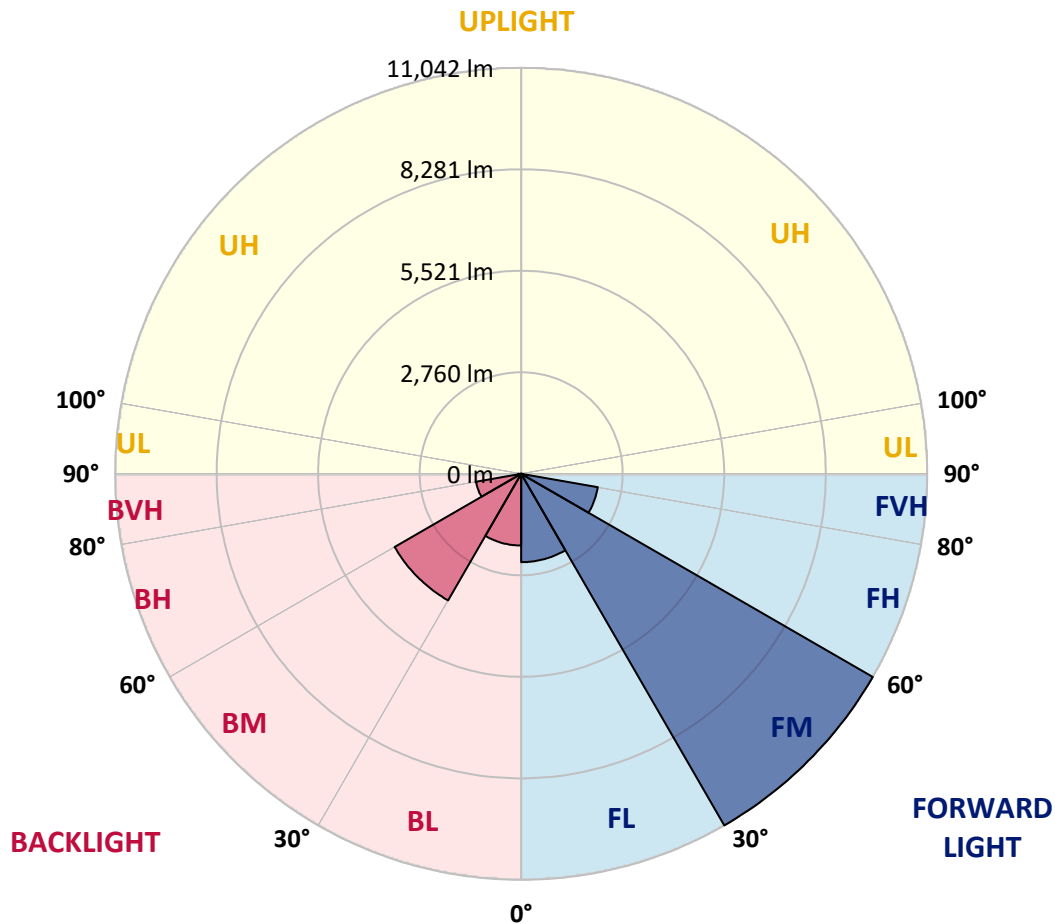
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2403.4	10.5			
FM	(30°-60°)	11041.9	48.3			
FH	(60°-80°)	2117.7	9.3			G2/5000
FVH	(80°-90°)	53.0	0.2			G1/100
BL	(0°-30°)	1950.4	8.5	B3/2500		
BM	(30°-60°)	3975.4	17.4	B3/5000		
BH	(60°-80°)	1246.4	5.5	B3/2500		G3/2500
BVH	(80°-90°)	71.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9
2.5°	4574.4	4565.6	4559.8	4606.5	4589.0	4591.9	4574.4	4591.9	4603.5	4577.3	4615.2
5°	4565.6	4591.9	4568.6	4583.1	4621.0	4609.4	4621.0	4656.0	4647.3	4638.5	4626.9
7.5°	4647.3	4650.2	4667.7	4673.5	4685.2	4673.5	4691.0	4723.1	4714.3	4664.8	4670.6
10°	4763.9	4769.7	4772.6	4804.7	4825.1	4828.0	4807.6	4778.5	4775.6	4842.6	4796.0
12.5°	4898.0	4883.4	4918.4	4930.1	4953.4	4979.6	5005.9	4944.7	4982.6	4985.5	4930.1
15°	5093.3	5107.9	5067.1	5067.1	5075.8	5078.8	5151.7	5122.5	5116.7	5084.6	5107.9
17.5°	5384.9	5285.8	5282.8	5242.0	5236.2	5259.5	5285.8	5309.1	5387.8	5323.7	5198.3
20°	5597.7	5621.0	5536.5	5486.9	5495.7	5548.2	5521.9	5626.9	5682.3	5577.3	5454.9
22.5°	5973.8	5895.1	5915.5	5804.7	5813.5	5868.9	5865.9	5973.8	6005.9	5839.7	5661.9
25°	6227.5	6207.1	6224.5	6137.1	6148.7	6192.5	6262.4	6440.3	6387.8	6204.1	5793.1
27.5°	6597.7	6556.9	6542.3	6510.3	6498.6	6615.2	6696.9	6886.4	6848.5	6580.2	6026.3
30°	6976.7	6950.5	6965.1	6833.9	6880.5	7128.3	7151.7	7411.1	7393.7	6921.3	6285.8
32.5°	7239.1	7253.7	7280.0	7207.1	7414.1	7612.3	7691.0	7985.5	8000.1	7507.4	6787.2
35°	7661.9	7612.3	7626.9	7711.4	7807.7	8169.2	8297.5	8492.8	8615.2	8122.5	7268.3
37.5°	7927.2	7979.7	7918.4	8052.6	8303.3	8737.7	8854.3	9055.5	9183.8	8728.9	7924.3
40°	8341.2	8256.6	8300.4	8396.6	8653.1	9218.7	9186.7	9393.7	9434.5	9245.0	8536.5
42.5°	8787.3	8746.4	8685.2	8903.9	9119.6	9530.7	9594.8	9498.6	9705.6	9749.4	9411.2
45°	9320.8	9370.3	9379.1	9384.9	9574.4	9933.0	9845.6	9761.0	10000.1	10317.9	9953.4
47.5°	9816.4	9659.0	9772.7	9930.1	10198.3	10201.3	10303.3	10102.1	10355.8	10638.6	10443.2
50°	9982.6	9906.8	10058.4	10355.8	10769.8	10813.5	10825.2	10539.5	10670.7	10895.1	10612.3
52.5°	9918.5	9892.2	10280.0	10740.6	11347.0	11568.6	11626.9	11274.2	11347.0	11245.0	10985.5
55°	9612.3	9691.1	10081.7	11020.5	11950.5	12635.7	12746.5	12300.4	11836.8	11915.6	11629.8
56°	9192.5	9055.5	9492.8	10702.7	11924.3	12982.6	13073.0	12516.2	12201.3	12099.2	11624.0
57.5°	7798.9	7621.1	8195.4	9629.8	11262.5	12851.4	12918.5	12606.5	12140.1	11933.1	10775.6
60°	4565.6	4653.1	5382.0	6641.5	8688.1	10536.5	10761.0	10988.4	10676.5	9749.4	8020.5
62.5°	2204.1	2148.7	2670.6	3807.6	5294.5	6726.0	6659.0	7297.4	7647.3	6927.2	5064.2
65°	1154.5	1148.7	1457.7	2078.7	2909.6	3533.6	3594.8	3938.8	4419.9	3568.5	2571.5
67.5°	848.4	871.7	1026.2	1460.7	1871.7	1909.6	1900.9	2072.9	2119.6	1793.0	1580.2
70°	664.7	676.4	790.1	1110.8	1393.6	1247.8	1221.6	1242.0	1379.0	1437.3	1367.4
72.5°	481.1	492.7	588.9	749.3	871.7	851.3	868.8	982.5	1151.6	1212.8	1140.0
75°	320.7	329.4	381.9	457.7	516.0	556.9	588.9	720.1	877.6	912.5	877.6
77.5°	221.6	230.3	265.3	323.6	329.4	355.7	367.4	428.6	524.8	568.5	545.2
80°	125.4	125.4	142.9	166.2	204.1	239.1	244.9	294.5	338.2	367.4	373.2
82.5°	58.3	61.2	75.8	102.0	134.1	166.2	172.0	204.1	236.2	265.3	274.1
85°	29.2	32.1	43.7	61.2	81.6	99.1	96.2	99.1	105.0	99.1	102.0
87.5°	8.7	8.7	11.7	14.6	11.7	14.6	14.6	17.5	20.4	23.3	26.2
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°	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9	4591.9
2.5°	4618.1	4626.9	4568.6	4623.9	4603.5	4600.6	4641.4	4635.6	4650.2	4644.4	4609.4
5°	4621.0	4600.6	4661.9	4606.5	4632.7	4688.1	4650.2	4737.7	4693.9	4723.1	4658.9
7.5°	4711.4	4717.2	4705.6	4728.9	4717.2	4743.5	4723.1	4743.5	4708.5	4711.4	4769.7
10°	4790.1	4772.6	4793.0	4763.9	4784.3	4775.6	4728.9	4714.3	4726.0	4711.4	4749.3
12.5°	4935.9	4903.8	4889.3	4854.3	4830.9	4743.5	4670.6	4629.8	4685.2	4693.9	4676.4
15°	5084.6	5087.5	5020.5	4941.7	4796.0	4664.8	4682.3	4696.8	4696.8	4720.2	4676.4
17.5°	5177.9	5177.9	5116.7	4959.2	4810.5	4734.7	4717.2	4670.6	4629.8	4623.9	4621.0
20°	5341.2	5291.6	5151.7	4956.3	4804.7	4769.7	4638.5	4527.7	4443.2	4414.0	4411.1
22.5°	5527.7	5402.4	5207.0	4962.1	4796.0	4746.4	4501.5	4335.3	4183.7	4119.6	4128.3
25°	5699.8	5498.6	5239.1	4935.9	4763.9	4524.8	4250.8	4020.4	3863.0	3810.5	3784.3
27.5°	5819.3	5600.6	5239.1	4959.2	4644.4	4277.0	3997.1	3702.7	3565.6	3530.6	3536.5
30°	5979.6	5728.9	5329.5	4909.7	4405.3	3956.3	3621.0	3428.6	3347.0	3317.8	3338.2
32.5°	6355.7	6064.2	5454.9	4790.1	4122.5	3635.6	3364.5	3256.6	3137.1	3078.7	3058.3
35°	6763.9	6382.0	5577.3	4589.0	3804.7	3344.1	3175.0	3075.8	2933.0	2868.8	2880.5
37.5°	7341.2	6790.2	5586.1	4256.6	3460.7	3180.8	3026.3	2871.7	2755.1	2656.0	2626.8
40°	8119.6	7347.0	5565.6	3906.7	3183.7	2988.4	2874.7	2682.2	2551.0	2481.1	2495.7
42.5°	8804.7	8000.1	5481.1	3510.2	2933.0	2857.2	2728.9	2539.4	2411.1	2338.2	2332.4
45°	9382.0	8481.1	5320.7	3172.0	2723.1	2711.4	2562.7	2416.9	2314.9	2247.8	2277.0
47.5°	9915.5	8868.9	5078.8	2833.8	2530.6	2554.0	2411.1	2320.7	2256.6	2195.4	2192.4
50°	10108.0	8863.1	4865.9	2554.0	2376.1	2364.5	2358.6	2262.4	2195.4	2142.9	2166.2
52.5°	10428.7	8962.2	4635.6	2361.5	2236.2	2239.1	2259.5	2189.5	2113.7	2081.7	2110.8
55°	10889.3	8976.8	4128.3	2137.0	2119.6	2140.0	2140.0	2093.3	2029.2	2002.9	1988.4
56°	10513.2	8542.4	3702.7	2078.7	2061.2	2061.2	2116.6	2064.2	1985.4	1965.0	1947.5
57.5°	9696.9	7484.0	3099.2	2008.8	1982.5	2023.3	2052.5	1997.1	1924.2	1895.1	1912.6
60°	6688.1	5064.2	2329.5	1857.2	1857.2	1924.2	1947.5	1865.9	1833.8	1830.9	1807.6
62.5°	3903.8	2950.5	1822.2	1720.1	1726.0	1781.4	1798.9	1752.2	1711.4	1760.9	1784.3
65°	2070.0	1760.9	1562.7	1574.4	1577.3	1621.0	1696.8	1693.9	1691.0	1705.6	1708.5
67.5°	1498.6	1463.6	1419.8	1408.2	1414.0	1446.1	1521.9	1580.2	1577.3	1542.3	1516.0
70°	1335.3	1285.7	1259.5	1262.4	1239.1	1277.0	1338.2	1376.1	1309.1	1268.2	1250.7
72.5°	1110.8	1096.2	1078.7	1081.6	1035.0	1026.2	956.3	956.3	938.8	927.1	947.5
75°	848.4	842.6	851.3	836.7	787.2	734.7	693.9	656.0	597.7	574.3	562.7
77.5°	536.4	553.9	574.3	542.3	521.9	484.0	443.2	405.3	358.6	332.4	332.4
80°	364.4	379.0	393.6	387.8	364.4	329.4	297.4	256.6	224.5	204.1	201.2
82.5°	277.0	288.6	309.0	285.7	262.4	233.2	207.0	177.8	148.7	125.4	125.4
85°	99.1	113.7	125.4	137.0	145.8	148.7	128.3	105.0	84.5	67.1	64.1
87.5°	26.2	29.2	32.1	29.2	29.2	29.2	32.1	29.2	26.2	20.4	20.4
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)