

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: P456710

Luminaire Tested: **GALN-SA8A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31604 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

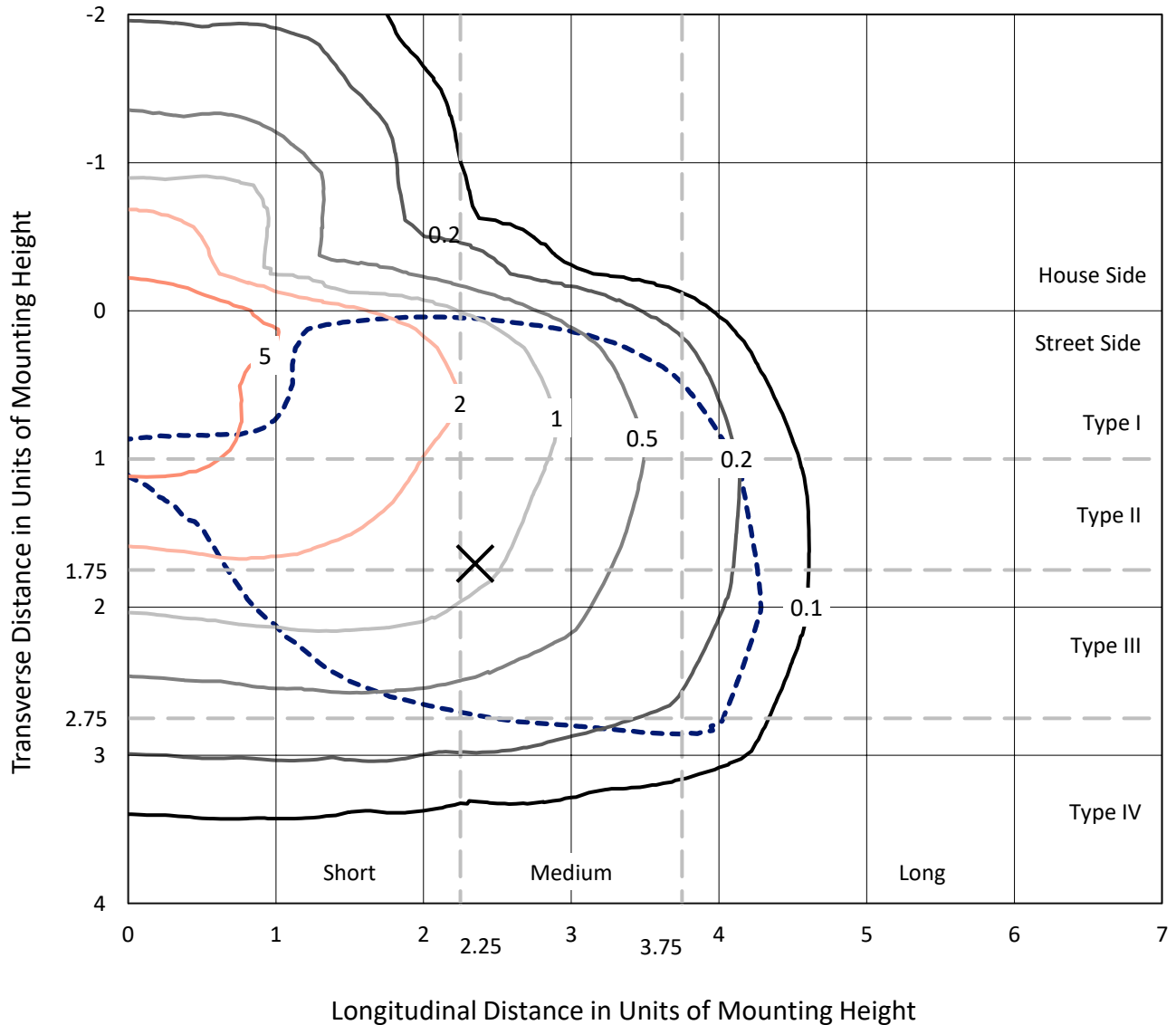
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

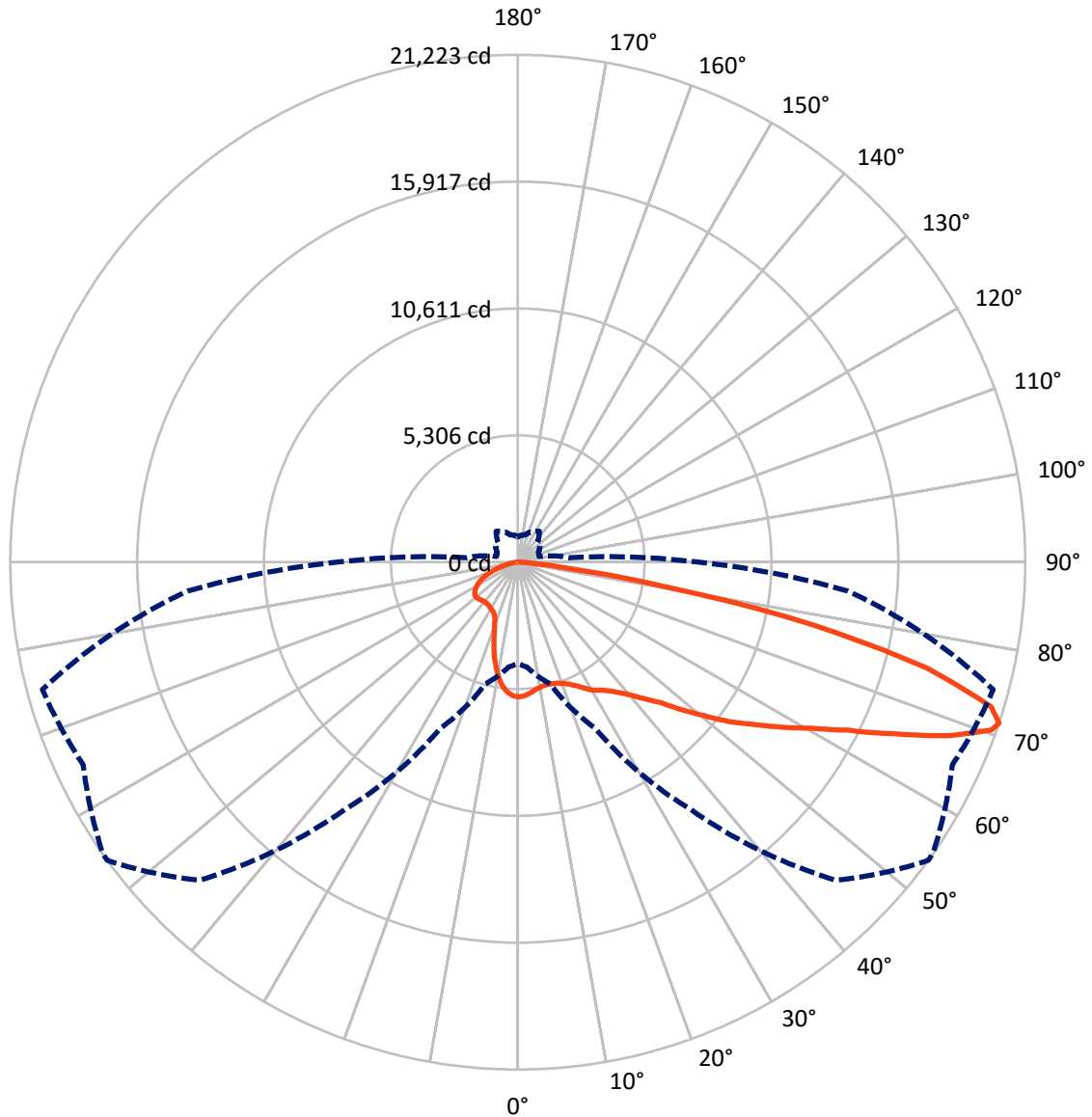
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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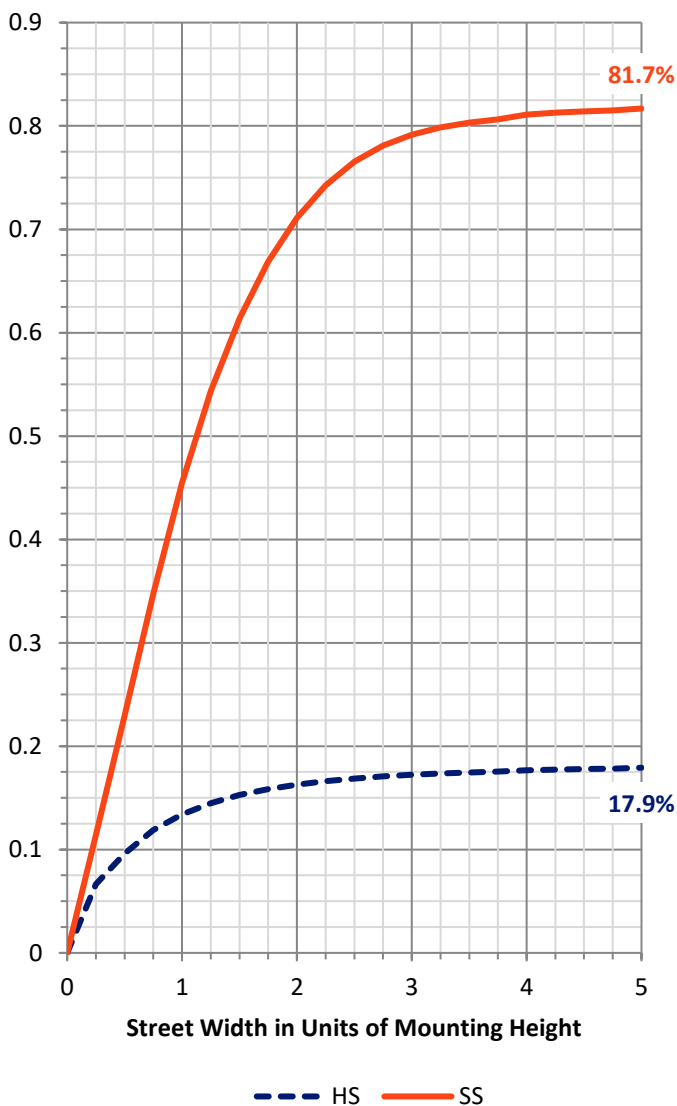
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5705.9	0.0	5705.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25898.1	0.0	25898.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	31604.0	0.0	31604.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.5	1.6
10°-20°	1326.8	4.2
20°-30°	2209.2	7.0
30°-40°	3266.7	10.3
40°-50°	4601.2	14.6
50°-60°	6161.3	19.5
60°-70°	7765.8	24.6
70°-80°	5304.0	16.8
80°-90°	466.4	1.5
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°	31604.0	100.0
0°-180°	31604.0	100.0



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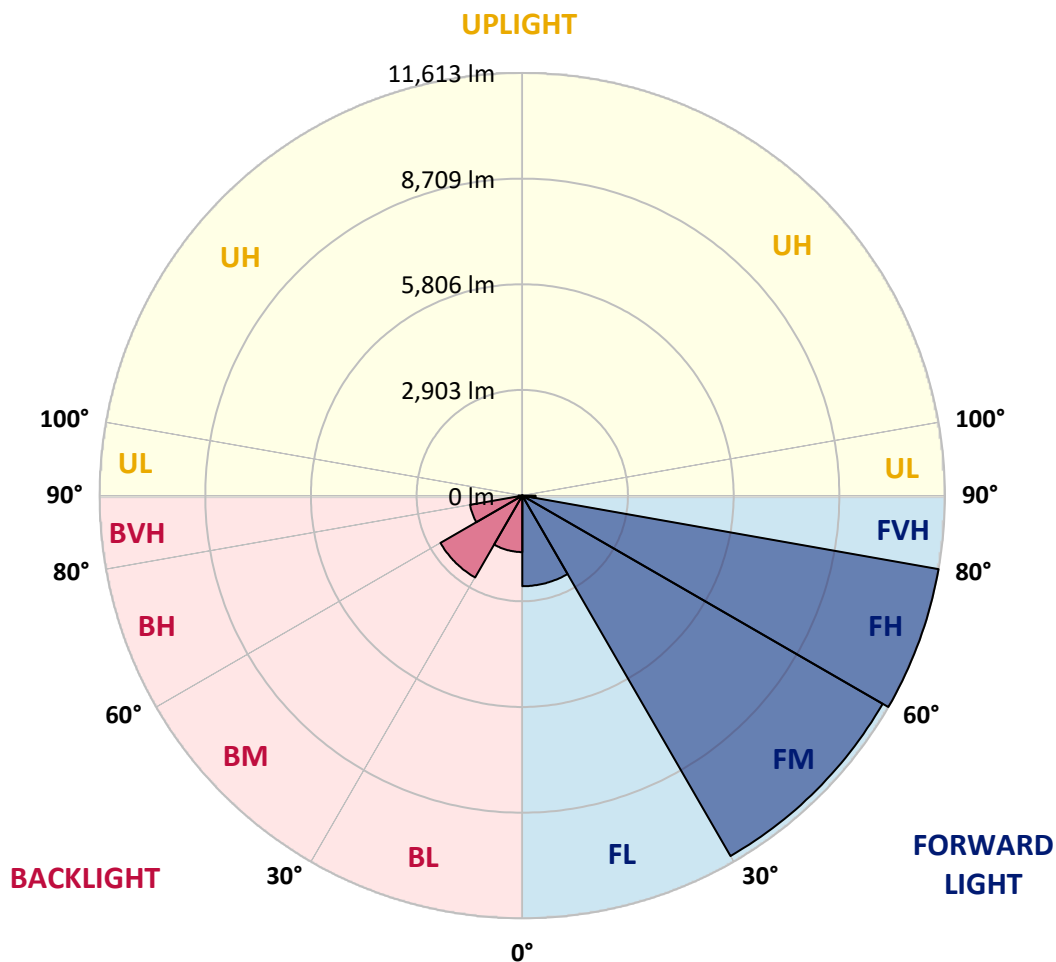
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2487.8	7.9			
FM	(30°-60°)	11433.2	36.2			
FH	(60°-80°)	11612.6	36.7			G4/12000
FVH	(80°-90°)	364.6	1.2			G3/500
BL	(0°-30°)	1550.8	4.9	B3/2500		
BM	(30°-60°)	2596.0	8.2	B3/5000		
BH	(60°-80°)	1457.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	101.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6
2.5°	5447.4	5473.0	5479.9	5496.9	5532.8	5561.8	5590.8	5587.4	5628.4	5645.5	5660.8
5°	5205.0	5211.8	5237.4	5271.6	5334.8	5415.0	5493.5	5495.2	5595.9	5676.2	5715.4
7.5°	5027.5	5049.7	5066.7	5102.6	5169.2	5256.2	5380.8	5391.1	5570.3	5729.1	5812.7
10°	4911.4	4937.0	4955.8	5000.2	5066.7	5164.0	5298.9	5317.7	5551.6	5812.7	5959.6
12.5°	4805.5	4831.2	4848.2	4906.3	4993.3	5112.8	5264.8	5287.0	5558.4	5910.1	6120.0
15°	4870.4	4890.9	4884.1	4901.1	4959.2	5095.8	5278.4	5300.6	5584.0	6003.9	6278.8
17.5°	5158.9	5176.0	5119.7	5054.8	5027.5	5128.2	5321.1	5345.0	5635.2	6101.3	6441.0
20°	5584.0	5630.1	5507.2	5362.1	5230.6	5244.3	5409.9	5435.5	5706.9	6198.6	6606.6
22.5°	6137.1	6171.2	6021.0	5782.0	5539.6	5415.0	5543.0	5558.4	5814.5	6324.9	6787.5
25°	6787.5	6808.0	6599.7	6292.4	5942.5	5706.9	5725.7	5753.0	5992.0	6468.3	6948.0
27.5°	7419.1	7484.0	7243.3	6867.7	6406.8	6014.2	5976.6	5993.7	6184.9	6548.5	7058.9
30°	8168.6	8163.5	7909.1	7473.8	6883.1	6348.8	6213.9	6210.5	6289.0	6587.8	7139.2
32.5°	8766.1	8836.1	8586.8	8112.2	7427.7	6695.3	6377.8	6371.0	6369.3	6656.1	7258.7
35°	9445.5	9455.7	9227.0	8749.0	8016.6	7130.6	6606.6	6572.4	6533.2	6802.9	7420.9
37.5°	10053.2	10101.0	9891.1	9355.0	8595.4	7583.0	6920.7	6898.5	6779.0	7057.2	7680.3
40°	10527.8	10563.7	10437.3	9926.9	9165.5	8071.3	7320.1	7279.2	7134.1	7473.8	8026.9
42.5°	10683.2	10756.6	10806.1	10555.1	9821.1	8650.0	7811.8	7760.6	7649.6	8105.4	8426.4
45°	10695.1	10811.2	11072.4	11084.3	10480.0	9343.1	8385.4	8349.5	8341.0	8914.6	8988.0
47.5°	10604.6	10722.4	11161.2	11398.4	11067.3	10043.0	9213.3	9157.0	9162.1	9915.0	9617.9
50°	10386.1	10526.1	11058.7	11599.9	11526.5	10770.2	10087.4	10068.6	10174.4	11057.0	10271.7
52.5°	9974.7	10143.7	10952.9	11726.2	11867.9	11396.7	11080.9	11028.0	11296.0	12296.4	10987.0
55°	8836.1	9090.4	10565.4	11796.2	12192.3	11995.9	11975.5	12071.1	12426.1	13648.4	11774.0
57.5°	8242.0	8433.2	9723.8	11808.2	12602.0	12692.4	13020.2	13044.1	13665.5	15084.1	12663.4
60°	7917.6	8086.6	9262.8	11729.6	13173.9	13554.5	14088.9	14174.2	14875.9	16639.3	13585.3
62.5°	7634.2	7779.4	8986.3	11458.2	13819.1	14833.2	15473.3	15514.3	16250.1	18356.7	14495.2
65°	6966.8	7132.4	8429.8	11186.8	14375.7	16431.0	17310.2	17262.4	17713.1	19838.5	15065.3
67.5°	6067.1	6277.1	7390.1	10249.6	14650.5	18177.4	19379.2	19319.5	19157.3	20809.8	15229.2
70°	4918.2	5030.9	6060.3	8629.5	13552.8	19094.2	21013.0	20949.8	20051.8	20937.8	14454.2
71°	4232.0	4407.8	5276.7	7665.0	12639.5	18814.2	21222.9	21205.9	20053.6	20584.5	13870.4
72.5°	3303.3	3410.8	4179.0	5939.1	10742.9	17223.1	20704.0	20768.8	19618.2	19602.9	12666.8
75°	2089.5	2137.3	2622.1	3496.2	5894.7	12197.4	17673.8	17849.7	17419.5	16045.2	9419.9
77.5°	1213.8	1275.2	1570.6	2060.5	2547.0	6620.2	12646.4	12837.6	12103.5	8834.4	3856.4
80°	706.7	775.0	1034.5	1196.7	1169.4	2456.5	6439.3	6765.3	5240.9	2231.2	1082.3
82.5°	392.6	438.7	727.2	728.9	623.1	802.3	2026.4	2120.2	1495.4	899.7	442.1
85°	285.1	322.6	469.5	425.1	298.7	344.8	705.0	739.2	604.3	379.0	143.4
87.5°	100.7	143.4	257.8	204.9	81.9	71.7	203.1	165.6	153.6	105.8	32.4
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°	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6	5638.6
2.5°	5669.3	5672.8	5655.7	5625.0	5594.2	5555.0	5510.6	5476.4	5461.1	5459.4	5457.7
5°	5730.8	5739.3	5674.5	5578.9	5473.0	5343.3	5232.3	5106.0	5073.6	5022.4	5037.7
7.5°	5829.8	5824.7	5696.7	5493.5	5246.0	4971.1	4739.0	4604.1	4464.1	4424.9	4426.6
10°	5971.5	5939.1	5696.7	5319.4	4906.3	4498.3	4173.9	3969.1	3858.1	3765.9	3731.8
12.5°	6121.7	6039.8	5642.0	5075.3	4469.2	3969.1	3620.8	3344.3	3272.6	3197.4	3199.1
15°	6265.1	6128.6	5534.5	4732.1	3998.1	3404.0	3066.0	2900.4	2878.2	2886.7	2885.0
17.5°	6394.9	6191.7	5370.6	4349.7	3448.4	2919.2	2739.9	2751.9	2811.6	2854.3	2859.4
20°	6526.3	6229.3	5126.5	3837.6	2929.4	2625.6	2632.4	2726.3	2816.8	2874.8	2883.3
22.5°	6650.9	6246.4	4839.7	3342.5	2553.9	2500.9	2601.7	2702.4	2791.1	2847.5	2856.0
25°	6732.9	6207.1	4433.4	2825.3	2369.5	2456.5	2562.4	2647.7	2722.9	2780.9	2794.6
27.5°	6755.1	6080.8	3929.8	2407.0	2284.1	2413.9	2511.2	2574.3	2632.4	2687.0	2697.3
30°	6743.1	5894.7	3376.7	2161.2	2234.6	2364.4	2439.5	2485.6	2555.6	2598.2	2606.8
32.5°	6724.4	5677.9	2799.7	2029.8	2193.7	2318.3	2362.7	2403.6	2401.9	2384.8	2396.8
35°	6731.2	5418.4	2331.9	1951.2	2157.8	2284.1	2321.7	2270.5	2123.7	2116.8	2110.0
37.5°	6767.0	5162.3	1992.2	1896.6	2139.0	2279.0	2299.5	2063.9	1934.2	1874.4	1859.1
40°	6859.2	4863.6	1768.6	1855.6	2137.3	2318.3	2198.8	1959.8	1710.5	1594.5	1585.9
42.5°	6982.1	4570.0	1632.0	1830.0	2157.8	2378.0	2157.8	1813.0	1541.5	1473.2	1463.0
45°	7164.8	4233.7	1556.9	1818.1	2188.5	2400.2	2144.1	1705.4	1473.2	1418.6	1418.6
47.5°	7371.3	3912.7	1515.9	1809.5	2227.8	2384.8	2022.9	1671.3	1440.8	1447.6	1480.1
50°	7576.2	3634.5	1485.2	1790.8	2261.9	2376.3	1973.4	1669.6	1449.3	1536.4	1594.5
52.5°	7813.5	3438.1	1447.6	1760.0	2261.9	2321.7	1958.1	1703.7	1473.2	1498.9	1524.5
55°	8100.3	3376.7	1399.8	1693.5	2221.0	2185.1	1949.5	1753.2	1490.3	1430.6	1440.8
57.5°	8479.3	3475.7	1353.7	1609.8	2127.1	2043.4	1946.1	1766.9	1451.1	1401.5	1391.3
60°	8919.7	3672.0	1340.1	1524.5	1999.0	1922.2	1925.6	1727.6	1396.4	1345.2	1353.7
62.5°	9228.7	3789.8	1331.6	1459.6	1859.1	1789.1	1876.1	1679.8	1372.5	1328.1	1336.7
65°	9228.7	3646.4	1253.0	1360.6	1678.1	1628.6	1816.4	1620.1	1341.8	1290.6	1282.0
67.5°	8878.7	3228.2	1133.5	1212.1	1478.4	1445.9	1732.7	1548.4	1295.7	1256.4	1236.0
70°	7967.1	2448.0	983.3	1037.9	1225.7	1254.7	1625.2	1451.1	1218.9	1171.1	1140.4
71°	7566.0	2132.2	920.1	949.2	1128.4	1171.1	1574.0	1410.1	1184.7	1116.5	1061.8
72.5°	6792.6	1795.9	824.5	836.5	964.5	1041.3	1466.4	1331.6	1119.9	1022.6	961.1
75°	5160.6	1311.1	664.1	657.2	713.6	826.2	1241.1	1186.4	981.6	850.1	814.3
77.5°	2229.5	713.6	496.8	501.9	484.8	626.5	976.5	1019.2	841.6	691.4	658.9
80°	676.0	411.4	339.7	346.5	324.4	420.0	688.0	798.9	676.0	537.7	493.4
82.5°	346.5	245.8	232.2	228.8	206.6	237.3	416.5	546.3	483.1	336.3	297.0
85°	150.2	131.4	114.4	111.0	97.3	85.4	148.5	273.1	256.1	187.8	179.2
87.5°	37.6	34.1	22.2	20.5	11.9	1.7	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)