

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: STREETWORKS

Report Number: P319722

Luminaire Tested: **GAN-SA8B-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45802 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

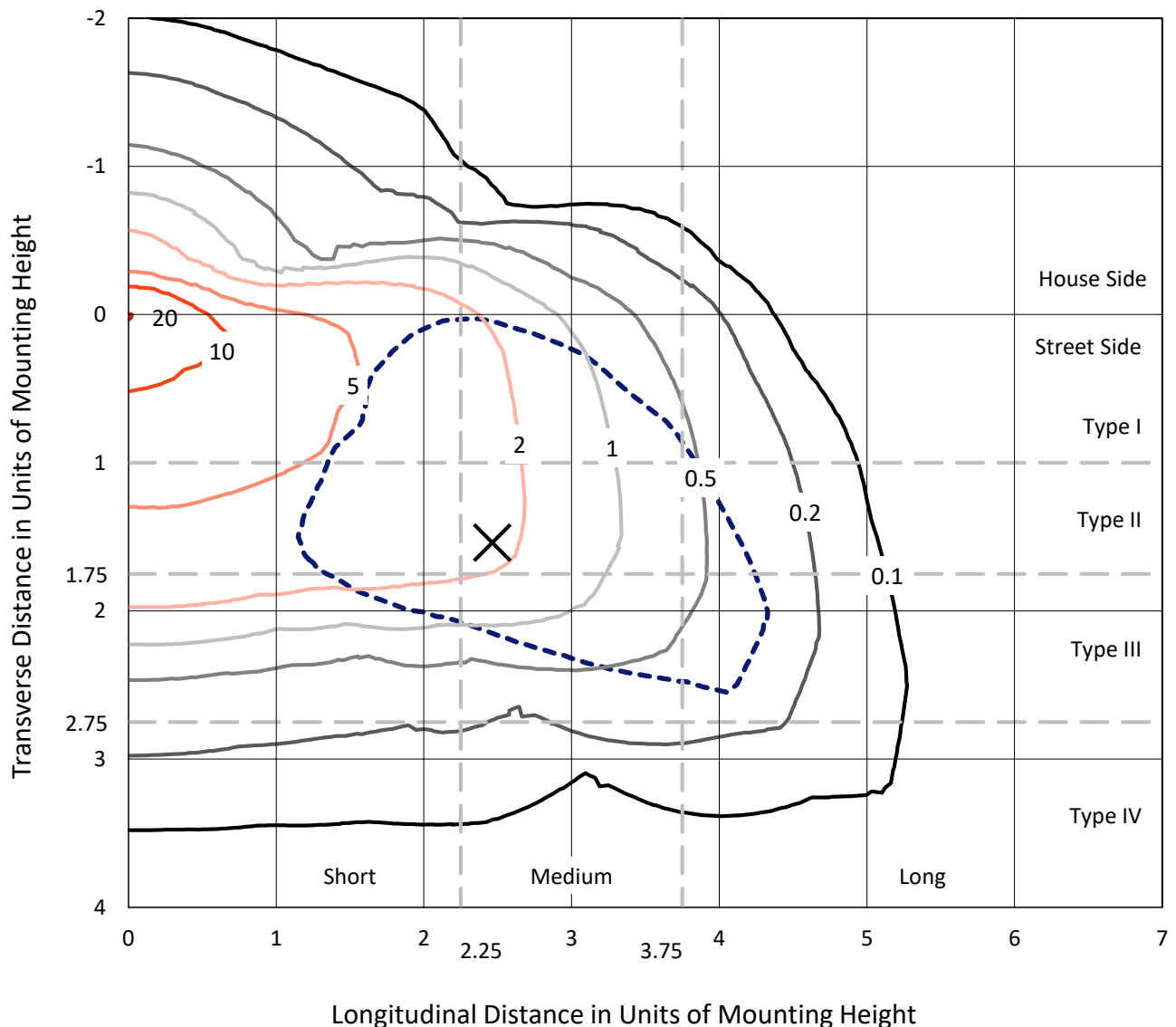
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

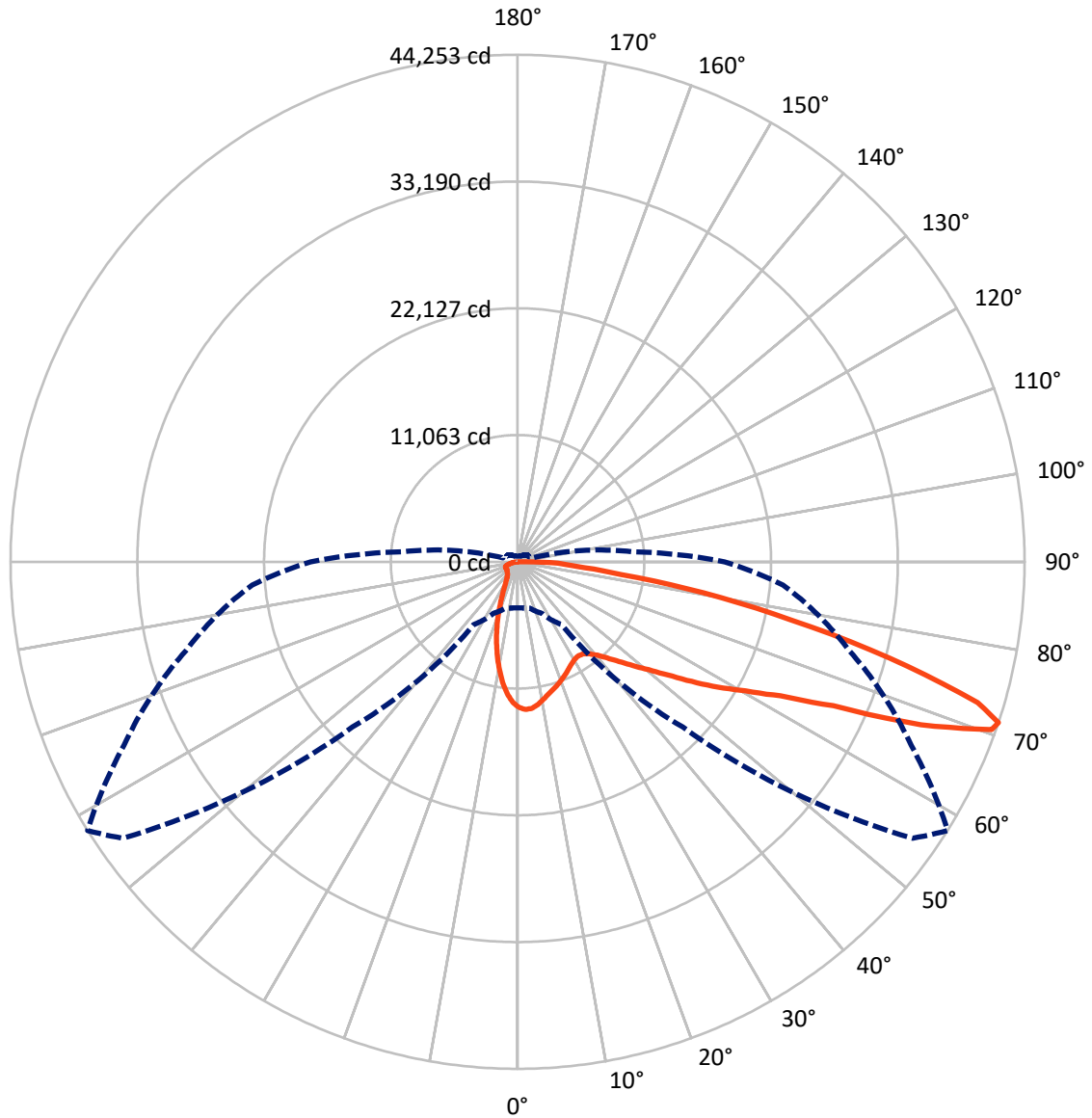
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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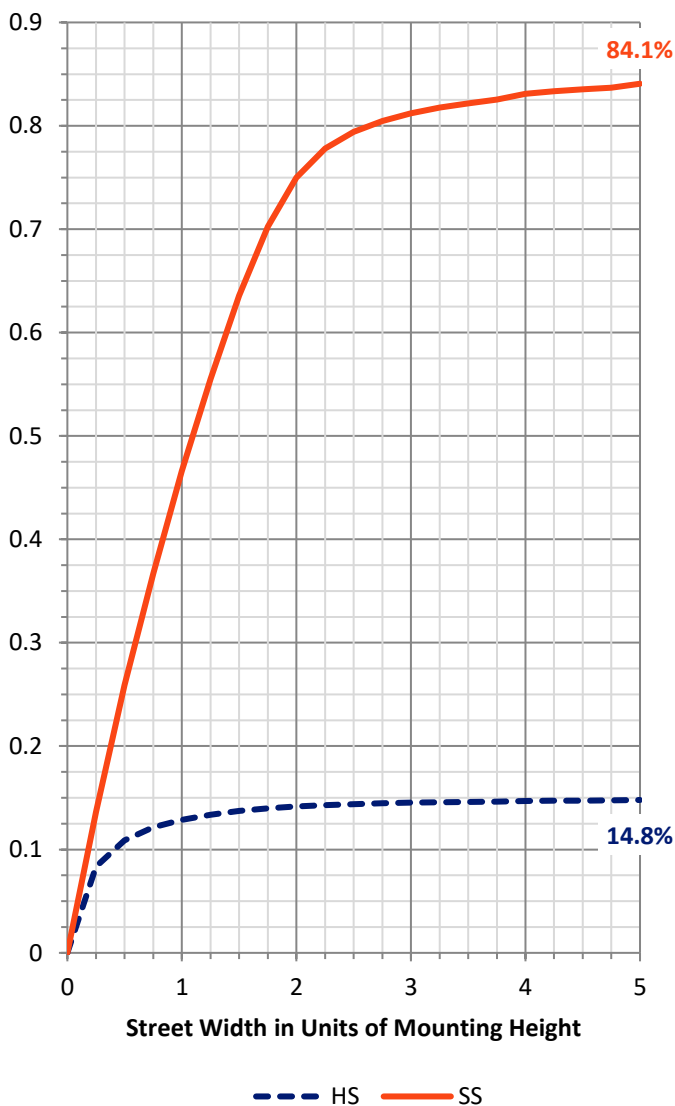
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6847.7	0.0	6847.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	38954.3	0.0	38954.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	45802.0	0.0	45802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.8	2.4
10°-20°	2434.4	5.3
20°-30°	3093.9	6.8
30°-40°	3940.9	8.6
40°-50°	5588.5	12.2
50°-60°	8648.3	18.9
60°-70°	11773.6	25.7
70°-80°	7854.4	17.1
80°-90°	1373.2	3.0
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°	45802.0	100.0
0°-180°	45802.0	100.0

Coefficient of Utilization



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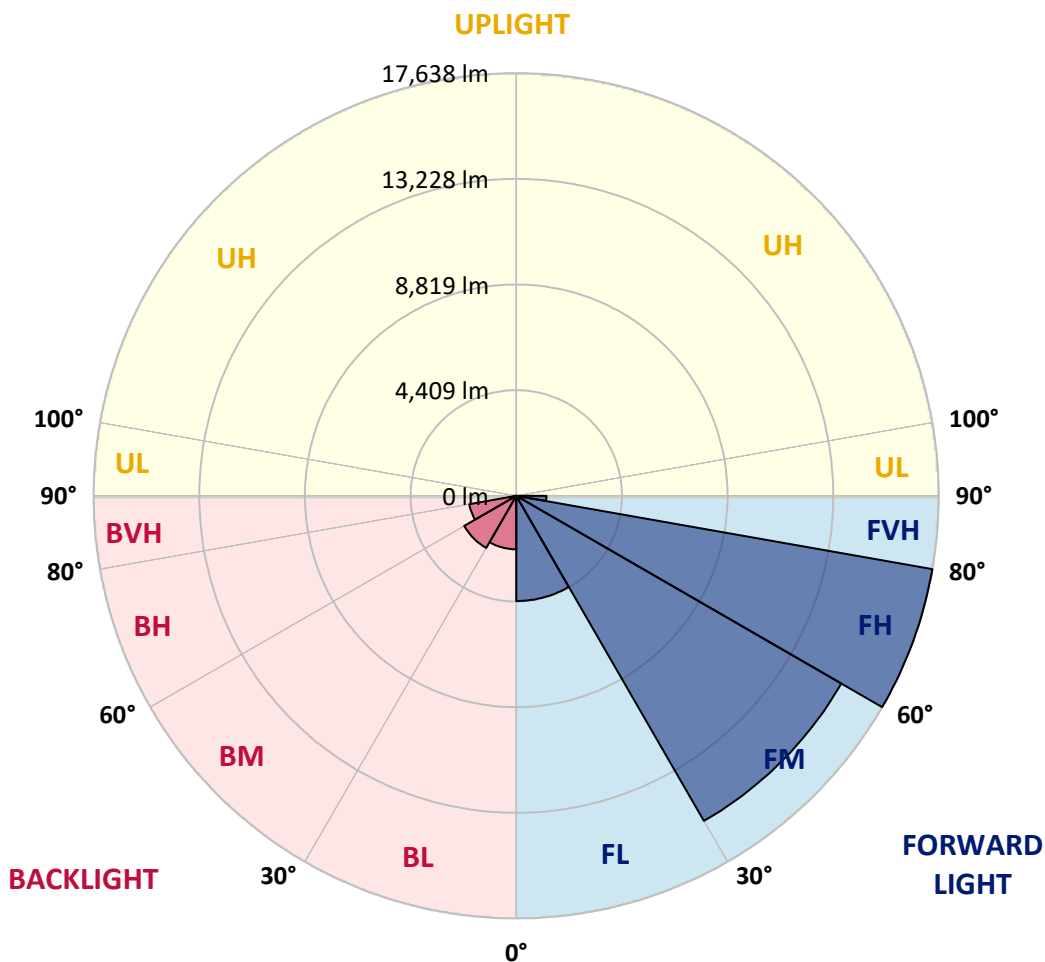
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4390.9	9.6			
FM (30°-60°)	15666.5	34.2			
FH (60°-80°)	17637.8	38.5			G5
FVH (80°-90°)	1259.1	2.7			G5
BL (0°-30°)	2232.2	4.9	B3/2500		
BM (30°-60°)	2511.2	5.5	B3/5000		
BH (60°-80°)	1990.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	114.1	0.2			G2/225
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°	58°	65°	75°	85°
0°	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2
2.5°	13026.9	13009.3	13015.7	13002.9	12972.6	12942.3	12897.6	12905.6	12843.4	12750.8	12636.0
5°	12781.2	12774.8	12822.6	12849.8	12872.1	12854.5	12841.8	12857.7	12766.8	12639.2	12439.7
7.5°	12265.8	12195.6	12256.3	12347.2	12433.3	12498.8	12584.9	12596.1	12538.6	12404.6	12143.0
10°	11533.5	11466.5	11555.9	11697.8	11870.2	12026.5	12200.4	12232.3	12243.5	12122.2	11804.7
12.5°	10774.1	10723.0	10812.4	11011.8	11297.4	11538.3	11815.9	11863.8	11962.7	11881.3	11492.0
15°	10094.4	10075.3	10183.8	10380.0	10708.7	11077.2	11477.7	11565.4	11732.9	11705.8	11247.9
17.5°	9507.3	9502.5	9585.5	9791.3	10155.0	10620.9	11141.0	11289.4	11538.3	11570.2	11046.9
20°	9070.1	9060.6	9118.0	9269.6	9644.5	10172.6	10777.3	10981.5	11340.5	11452.1	10839.5
22.5°	8835.6	8834.0	8835.6	8907.4	9213.7	9705.1	10423.1	10672.0	11147.4	11358.0	10609.7
25°	8795.7	8790.9	8755.8	8747.9	8921.8	9314.2	10072.1	10346.5	10963.9	11292.6	10391.2
27.5°	8899.4	8905.8	8859.5	8784.6	8819.7	9057.4	9767.3	10060.9	10817.2	11279.8	10239.6
30°	9114.8	9111.6	9071.7	8993.6	8925.0	8961.6	9550.4	9843.9	10718.2	11335.7	10135.9
32.5°	9352.5	9370.1	9362.1	9319.0	9216.9	9070.1	9485.0	9772.1	10689.5	11469.7	10091.2
35°	9638.1	9657.3	9714.7	9748.2	9628.5	9392.4	9625.4	9874.2	10772.5	11721.8	10163.0
37.5°	9909.3	9958.8	10119.9	10261.9	10159.8	9896.6	9998.7	10175.8	11029.4	12119.0	10356.1
40°	10222.1	10265.1	10528.4	10829.9	10814.0	10541.1	10600.2	10718.2	11482.5	12688.6	10705.5
42.5°	10530.0	10616.1	10997.4	11425.0	11547.9	11307.0	11401.1	11463.3	12120.6	13443.3	11314.9
45°	10940.0	11032.5	11562.2	12077.6	12364.7	12229.1	12379.1	12403.0	12923.2	14470.7	12200.4
47.5°	11560.6	11665.9	12283.4	12824.2	13263.0	13277.3	13524.6	13515.1	13925.1	15646.6	13315.6
50°	12527.5	12679.0	13184.8	13690.6	14223.4	14520.2	14850.5	14804.2	15126.5	16899.0	14600.0
52.5°	13794.3	13864.5	14239.4	14612.7	15274.8	15940.1	16414.0	16372.5	16489.0	18186.5	16058.2
55°	15107.3	15160.0	15314.7	15519.0	16409.2	17494.1	18496.1	18430.6	18135.5	19523.5	17498.9
57.5°	16288.0	16394.9	16501.7	16586.3	17551.6	19118.3	20626.0	20630.8	19922.4	20965.8	18987.5
60°	16471.4	16565.6	17272.4	17939.2	19506.0	21284.9	22905.9	22858.0	21771.5	22531.0	20646.7
62.5°	14560.1	14772.3	15952.9	17727.1	21388.6	25248.0	25814.4	25755.4	23982.8	24459.9	22578.8
65°	10434.2	10675.2	12099.9	14765.9	20476.0	29614.8	31063.4	30268.9	26998.2	26832.3	24841.2
67.5°	6019.6	6077.1	6694.5	8835.6	15590.7	29842.9	39071.0	37959.0	31680.9	29523.8	25948.4
70°	4451.3	4449.7	4596.5	5437.3	8436.7	24356.2	42879.3	43876.5	36610.8	30409.3	24383.3
71°	4025.3	4030.1	4194.4	4949.1	6681.7	20386.7	42070.4	44253.0	37909.5	29972.1	23250.5
72.5°	3443.0	3458.9	3687.1	4438.5	5620.8	14059.1	38586.0	41993.9	38525.4	28893.6	21478.0
75°	2611.8	2648.4	2964.3	3741.3	5137.4	7130.1	28319.3	33533.2	34224.0	25495.3	15959.3
77.5°	1863.5	1905.0	2262.3	3146.2	4883.7	5373.5	18965.1	24459.9	25185.8	16339.0	7198.7
80°	1177.4	1226.9	1496.5	2503.3	4588.5	5102.3	11918.0	16441.1	13733.6	5228.3	1831.6
82.5°	690.8	729.1	928.6	1635.3	3747.7	4914.0	7012.0	9113.2	5344.8	1579.5	832.8
85°	400.5	418.0	579.1	1041.8	2721.8	4638.0	5151.7	5094.3	2319.8	772.2	394.1
87.5°	186.7	207.4	343.0	544.0	1510.9	3361.6	4071.6	3518.0	1442.3	362.2	185.1
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°	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2	12690.2
2.5°	12580.1	12553.0	12439.7	12339.2	12233.9	12096.7	11945.1	11926.0	11833.5	11851.0	11819.1
5°	12331.2	12262.6	11989.8	11742.5	11450.6	11188.9	10904.9	10774.1	10585.8	10573.1	10525.2
7.5°	11975.5	11847.8	11425.0	10956.0	10486.9	10040.2	9598.2	9307.9	9011.1	8885.1	8873.9
10°	11575.0	11358.0	10735.8	10041.8	9365.3	8712.8	8081.0	7613.5	7192.3	6992.9	6984.9
12.5°	11195.3	10874.6	10021.0	9076.5	8151.2	7305.6	6439.2	5825.0	5296.9	5119.8	5044.8
15°	10873.0	10421.5	9325.4	8117.7	6994.5	5820.2	4834.2	4188.1	3699.9	3530.7	3498.8
17.5°	10560.3	9979.5	8612.2	7149.2	5791.5	4500.8	3513.2	3033.0	2772.9	2704.3	2702.7
20°	10249.2	9524.8	7867.2	6158.4	4628.4	3366.4	2701.1	2485.7	2398.0	2390.0	2377.2
22.5°	9896.6	9043.0	7083.8	5164.5	3612.1	2646.9	2295.9	2209.7	2198.5	2227.2	2227.2
25°	9566.3	8564.4	6289.3	4191.2	2809.6	2208.1	2050.2	2032.6	2062.9	2114.0	2118.8
27.5°	9258.4	8103.3	5513.9	3326.5	2251.2	1944.9	1879.4	1900.2	1954.4	2013.5	2015.1
30°	9004.7	7667.7	4760.8	2621.3	1901.8	1748.6	1737.4	1778.9	1838.0	1884.2	1895.4
32.5°	8808.5	7296.0	4033.3	2107.6	1673.6	1601.8	1611.4	1646.5	1683.2	1708.7	1726.3
35°	8717.5	6976.9	3361.6	1777.3	1528.4	1488.6	1501.3	1520.5	1536.4	1555.6	1569.9
37.5°	8733.5	6729.6	2761.7	1571.5	1431.1	1410.4	1410.4	1410.4	1410.4	1420.0	1421.5
40°	8881.9	6587.6	2273.5	1440.7	1365.7	1343.4	1325.8	1309.9	1297.1	1303.5	1300.3
42.5°	9261.6	6574.9	1916.1	1357.7	1313.1	1276.4	1241.3	1218.9	1203.0	1209.4	1212.5
45°	9906.2	6734.4	1675.2	1298.7	1263.6	1207.8	1163.1	1139.2	1128.0	1148.7	1151.9
47.5°	10740.6	7082.2	1528.4	1255.6	1217.3	1143.9	1096.1	1073.7	1076.9	1107.2	1115.2
50°	11815.9	7647.0	1458.2	1228.5	1185.4	1089.7	1040.2	1021.1	1030.7	1073.7	1083.3
52.5°	12996.5	8460.7	1466.2	1220.5	1164.7	1049.8	997.2	974.8	990.8	1030.7	1038.6
55°	14359.1	9438.7	1598.6	1231.7	1134.4	1024.3	962.1	923.8	936.5	973.2	979.6
57.5°	15873.1	10558.7	1865.1	1228.5	1096.1	1000.3	925.4	867.9	877.5	899.8	906.2
60°	17449.4	11911.6	2278.3	1238.1	1078.5	971.6	875.9	804.1	800.9	820.1	823.3
62.5°	19341.7	13476.8	2750.6	1244.5	1089.7	934.9	810.5	740.3	730.7	735.5	738.7
65°	21291.3	14609.5	2573.5	1218.9	1124.8	904.6	753.1	678.1	660.5	657.3	658.9
67.5°	21351.9	13395.4	1804.5	1167.9	1139.2	888.7	710.0	625.4	596.7	585.5	583.9
70°	19148.6	10882.6	1405.6	1113.6	1081.7	863.1	670.1	582.3	539.3	521.7	520.1
71°	18073.3	10017.8	1332.2	1086.5	1038.6	837.6	652.5	563.2	518.5	499.4	496.2
72.5°	16386.9	8980.8	1242.9	1043.4	955.7	772.2	619.0	536.1	489.8	467.5	462.7
75°	11760.1	5872.9	1067.4	930.1	791.3	615.8	542.5	481.8	441.9	414.8	411.6
77.5°	4531.1	2337.3	807.3	773.8	606.3	481.8	446.7	416.4	387.7	360.6	359.0
80°	1400.8	1045.0	588.7	582.3	438.7	359.0	347.8	339.8	328.7	299.9	293.6
82.5°	748.3	599.9	405.2	376.5	287.2	239.3	252.1	255.3	256.9	226.6	223.4
85°	357.4	317.5	228.1	213.8	167.5	134.0	154.8	167.5	169.1	138.8	129.2
87.5°	170.7	165.9	106.9	81.4	62.2	44.7	54.2	67.0	73.4	52.6	46.3
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)