

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: P323864

Luminaire Tested: **GAN-SA0D-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0D-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 62331 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

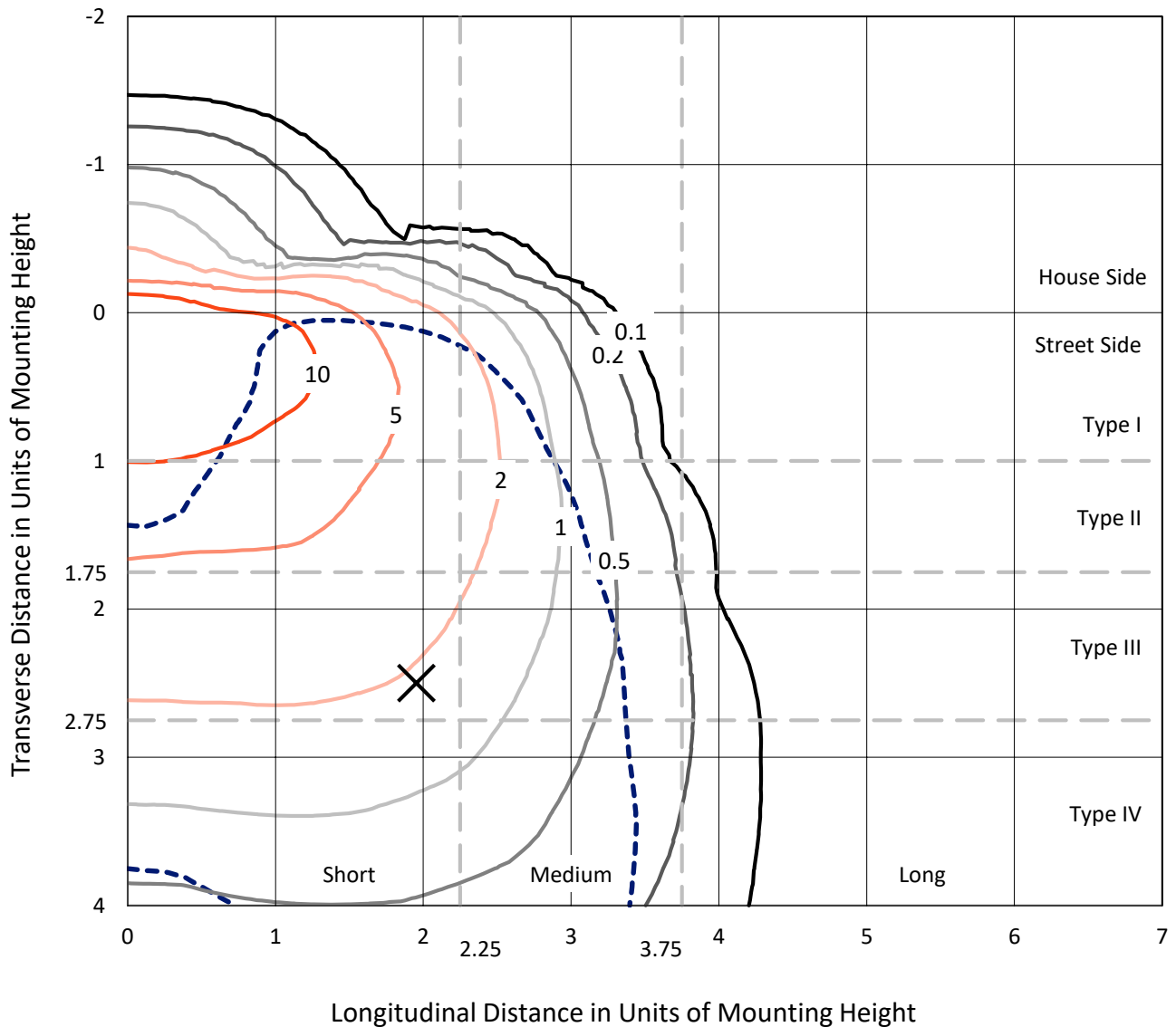
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

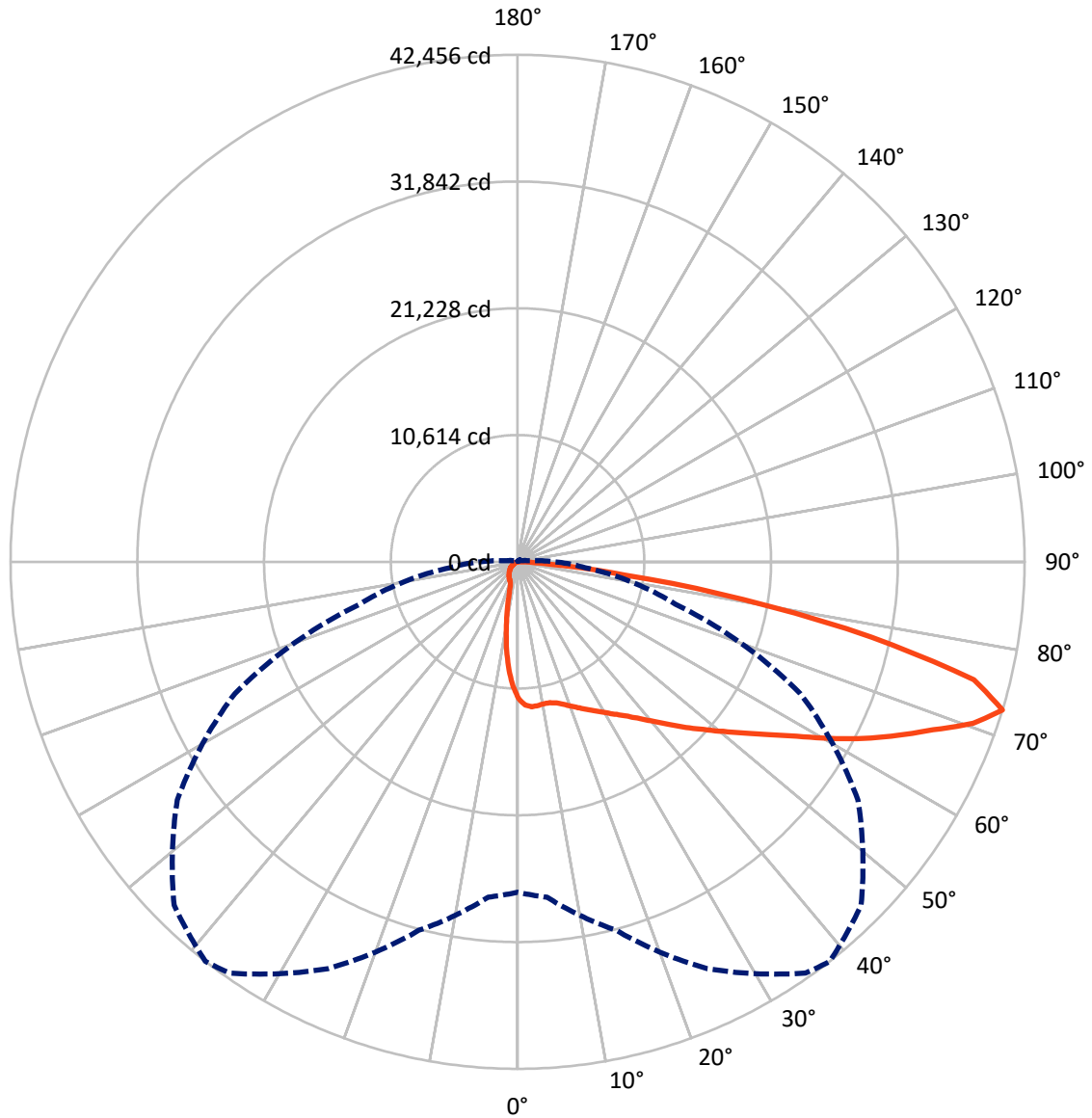
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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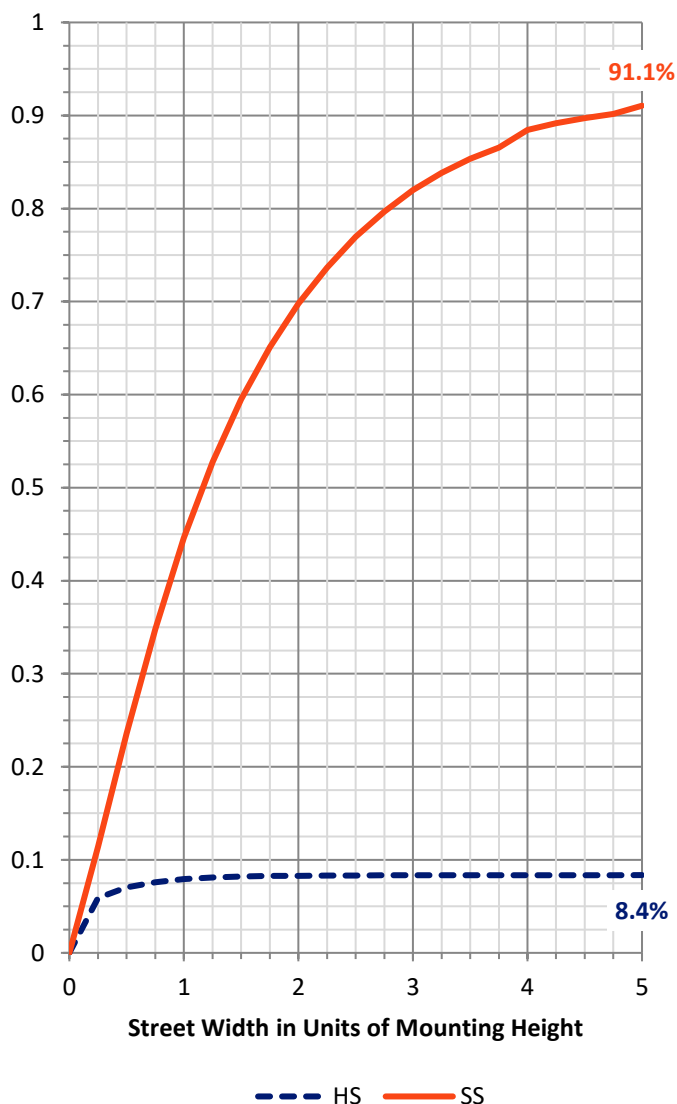
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5245.4	0.0	5245.4
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	57085.6	0.0	57085.6
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	62331.0	0.0	62331.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	976.8	1.6
10°-20°	2388.6	3.8
20°-30°	3798.9	6.1
30°-40°	5711.3	9.2
40°-50°	8713.0	14.0
50°-60°	12314.4	19.8
60°-70°	15446.4	24.8
70°-80°	11549.5	18.5
80°-90°	1432.1	2.3
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°	62331.0	100.0
0°-180°	62331.0	100.0

**Coefficient of Utilization**

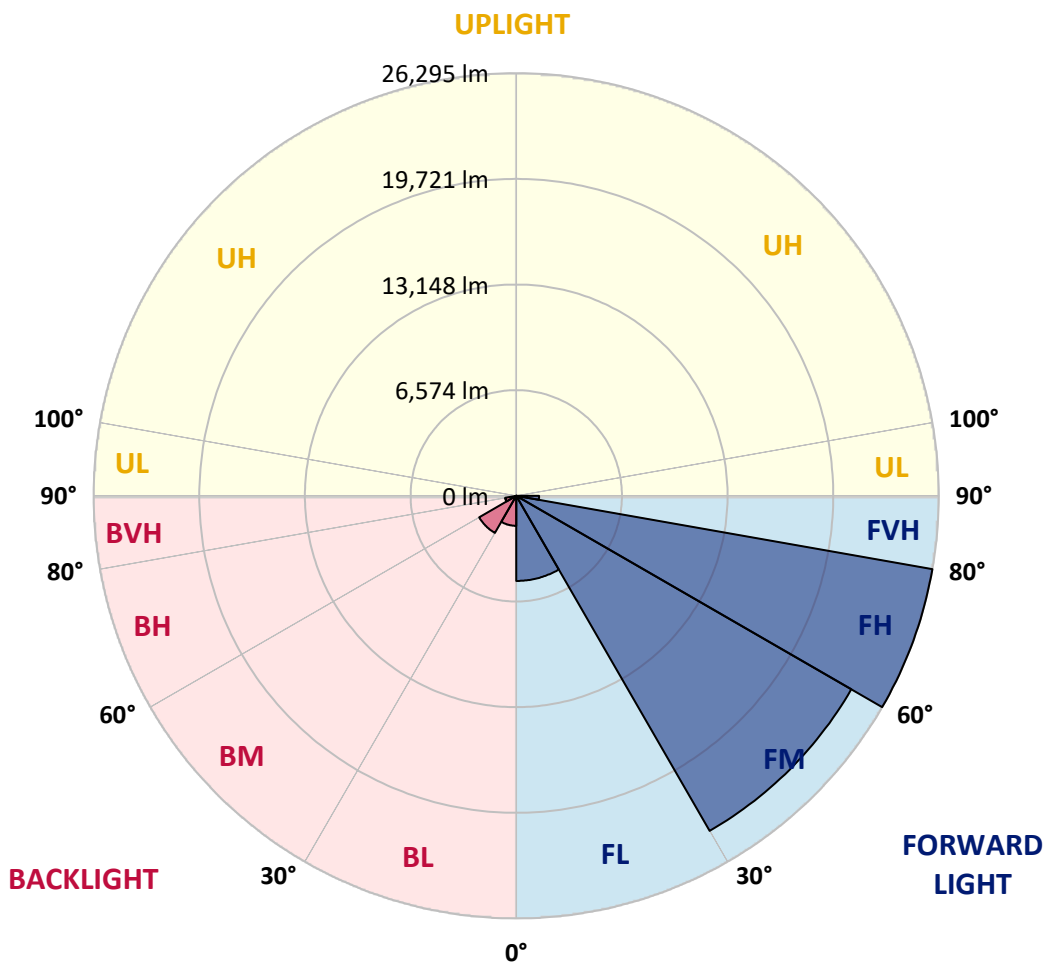


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5296.6	8.5			
FM (30°-60°)	24075.0	38.6			
FH (60°-80°)	26295.2	42.2			G5
FVH (80°-90°)	1418.7	2.3			G5
BL (0°-30°)	1867.7	3.0	B3/2500		
BM (30°-60°)	2663.7	4.3	B3/5000		
BH (60°-80°)	700.7	1.1	B2/1000		G2/1000
BVH (80°-90°)	13.4	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5
2.5°	12166.6	12169.2	12140.7	12094.1	12034.6	12003.5	11951.7	11868.9	11780.9	11623.0	11452.1
5°	12415.1	12415.1	12378.8	12316.7	12220.9	12192.5	12094.1	11962.1	11780.9	11524.6	11237.3
7.5°	12389.2	12394.4	12345.2	12280.5	12184.7	12158.8	12039.7	11892.2	11667.0	11356.3	10988.7
10°	12254.6	12267.5	12228.7	12197.6	12109.6	12081.1	11969.8	11822.3	11597.1	11265.7	10843.8
12.5°	12117.4	12130.3	12143.3	12171.8	12117.4	12107.0	12019.0	11894.8	11679.9	11335.6	10859.3
15°	12029.4	12055.3	12148.5	12259.8	12272.7	12262.4	12205.4	12088.9	11871.5	11514.2	10970.6
17.5°	12029.4	12070.8	12264.9	12477.2	12552.3	12560.0	12510.9	12347.8	12088.9	11705.8	11074.2
20°	12130.3	12187.3	12490.2	12790.4	12914.7	12914.7	12818.9	12591.1	12288.2	11879.2	11144.1
22.5°	12389.2	12464.3	12844.8	13191.7	13323.7	13295.2	13165.8	12834.4	12495.3	12076.0	11232.1
25°	12899.2	12956.1	13352.2	13701.6	13781.9	13717.2	13554.1	13129.5	12759.4	12342.6	11392.6
27.5°	13556.7	13564.4	13973.4	14268.5	14219.4	14175.4	13970.9	13499.7	13139.9	12723.1	11669.6
30°	14278.9	14278.9	14638.7	14863.9	14713.8	14677.5	14473.0	13947.6	13626.6	13240.9	12063.0
32.5°	14977.8	15008.9	15301.4	15443.8	15275.5	15239.3	15040.0	14514.5	14273.7	14030.4	12676.5
35°	15653.5	15676.8	15953.7	16031.4	15870.9	15881.3	15738.9	15293.6	15203.0	15172.0	13600.7
37.5°	16308.4	16313.6	16595.7	16644.9	16564.7	16652.7	16665.6	16272.1	16440.4	16691.5	14902.8
40°	16906.4	16911.5	17191.1	17318.0	17455.2	17569.0	17670.0	17460.3	18016.9	18599.3	16453.3
42.5°	17385.3	17439.6	17794.3	18035.0	18397.4	18614.9	18889.3	18878.9	19893.6	20768.6	18327.5
45°	17807.2	17900.4	18394.8	18816.8	19438.0	19784.9	20214.6	20551.2	22006.0	23183.8	20225.0
47.5°	18363.8	18451.8	19016.1	19707.3	20535.6	20991.2	21703.1	22430.5	24328.0	25555.0	22078.4
50°	19148.1	19109.3	19665.8	20657.3	21721.2	22319.2	23333.9	24423.7	26631.9	27620.7	23168.3
52.5°	19984.2	19968.7	20380.3	21690.2	23119.1	23818.0	25158.9	26484.3	28834.8	29044.5	23667.9
55°	21019.7	20908.4	21255.3	22868.0	24778.4	25529.1	27108.2	28524.1	30589.9	29846.9	23919.0
57.5°	22104.3	21920.5	22251.9	24180.4	26650.0	27537.9	29267.1	30512.2	31757.3	30395.7	23916.4
60°	23225.2	23007.8	23401.2	25821.6	28974.6	30002.3	31607.2	31855.7	32847.2	30672.7	23740.4
62.5°	24162.3	24032.9	24617.9	27576.7	31571.0	32580.5	33375.2	33077.5	33766.1	30887.6	23328.8
65°	25153.7	25161.5	26106.4	29624.3	34330.4	35011.3	35078.6	34661.8	34534.9	30843.6	21936.1
67.5°	26494.7	26618.9	28195.4	32404.5	37014.9	37540.4	37535.2	36378.1	35096.7	29093.6	18847.8
70°	27913.2	28205.7	30602.8	35585.9	39945.2	40478.4	40204.1	37470.5	33046.5	23525.5	13339.2
72.5°	27675.1	28182.4	31941.1	37592.1	42049.7	42456.2	40672.6	34786.0	26119.3	13673.2	5679.5
75°	21351.0	21938.7	29287.8	35604.1	39841.6	39476.6	34946.5	27069.3	14273.7	3815.6	1278.8
77.5°	11278.7	11591.9	19347.4	27123.7	31066.2	30302.5	24617.9	15016.7	4351.5	944.9	574.7
80°	5907.3	5979.7	8431.2	15389.4	19174.0	19179.2	14589.5	6595.8	1793.9	484.1	385.7
82.5°	3163.3	3225.4	4455.0	7111.0	10046.5	9106.8	5586.3	3629.3	1043.2	274.4	370.2
85°	761.1	774.0	2526.5	3248.7	3950.3	2821.6	1659.3	3046.8	282.2	160.5	300.3
87.5°	292.5	297.7	937.1	1405.6	1007.0	652.3	776.6	1136.4	36.2	62.1	46.6
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°	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5	11462.5
2.5°	11348.6	11281.3	11115.6	10905.9	10719.5	10584.9	10383.0	10251.0	10163.0	10160.4	10126.7
5°	11061.2	10924.0	10566.8	10142.3	9756.6	9409.7	9000.7	8677.1	8436.4	8397.5	8314.7
7.5°	10753.2	10528.0	9979.2	9316.5	8669.3	8011.8	7248.2	6774.5	6368.0	6173.9	6153.2
10°	10564.2	10248.4	9469.2	8511.4	7496.7	6427.6	5428.4	4737.2	4237.6	4095.2	3989.1
12.5°	10525.4	10108.6	9075.7	7755.5	6305.9	4892.5	3787.2	3052.0	2653.3	2526.5	2492.9
15°	10564.2	10043.9	8744.4	7007.4	5099.6	3471.4	2542.0	2114.9	1964.8	1928.5	1925.9
17.5°	10587.5	9966.2	8369.0	6176.5	3929.5	2479.9	1946.7	1822.4	1799.1	1796.5	1801.7
20°	10584.9	9847.2	7921.2	5249.7	2922.6	1949.2	1760.3	1734.4	1729.2	1731.8	1729.2
22.5°	10566.8	9707.4	7429.4	4294.5	2208.1	1742.1	1680.0	1664.5	1661.9	1661.9	1661.9
25°	10600.5	9596.1	6888.4	3380.8	1819.8	1646.4	1607.5	1594.6	1592.0	1592.0	1586.8
27.5°	10722.1	9533.9	6295.6	2601.6	1643.8	1560.9	1529.9	1527.3	1519.5	1516.9	1522.1
30°	10918.9	9533.9	5645.8	2024.3	1537.6	1472.9	1449.6	1444.5	1441.9	1439.3	1441.9
32.5°	11265.7	9606.4	4936.5	1682.6	1436.7	1374.6	1359.0	1366.8	1359.0	1359.0	1359.0
35°	11892.2	9823.9	4193.6	1467.8	1330.6	1278.8	1263.3	1273.6	1268.4	1268.4	1265.8
37.5°	12806.0	10227.7	3445.5	1338.3	1237.4	1183.0	1162.3	1177.8	1172.7	1172.7	1170.1
40°	13919.1	10815.3	2733.6	1240.0	1146.8	1089.8	1071.7	1079.5	1066.5	1066.5	1071.7
42.5°	15293.6	11560.8	2112.3	1144.2	1056.2	1001.8	991.4	983.7	960.4	947.4	950.0
45°	16820.9	12337.4	1646.4	1051.0	970.7	926.7	911.2	890.5	851.7	825.8	828.4
47.5°	18185.1	12935.4	1338.3	960.4	893.1	859.4	836.1	797.3	740.3	709.3	711.9
50°	18902.2	13026.0	1139.0	869.8	820.6	786.9	753.3	693.8	626.4	592.8	590.2
52.5°	19086.0	12601.5	991.4	786.9	748.1	709.3	665.3	585.0	510.0	473.7	468.5
55°	19153.3	11954.3	859.4	709.3	670.5	626.4	569.5	478.9	409.0	372.8	370.2
57.5°	18930.7	10988.7	755.9	639.4	592.8	538.4	468.5	383.1	315.8	287.3	287.3
60°	18436.2	9681.5	675.6	564.3	512.5	450.4	377.9	297.7	235.6	212.3	212.3
62.5°	17450.0	7988.5	600.6	486.7	437.5	372.8	305.5	225.2	165.7	152.7	155.3
65°	15588.7	6060.0	525.5	416.8	372.8	308.0	238.2	160.5	111.3	111.3	116.5
67.5°	12712.8	4209.1	447.8	354.6	321.0	251.1	181.2	111.3	77.7	88.0	98.4
70°	8415.6	2360.8	383.1	292.5	274.4	199.3	134.6	75.1	62.1	82.8	101.0
72.5°	3176.3	919.0	321.0	235.6	238.2	152.7	95.8	56.9	56.9	90.6	119.1
75°	885.3	450.4	230.4	173.4	186.4	111.3	69.9	49.2	54.4	103.5	139.8
77.5°	520.3	331.3	150.1	101.0	126.8	77.7	46.6	38.8	46.6	88.0	134.6
80°	419.4	176.0	88.0	51.8	69.9	44.0	31.1	23.3	12.9	33.7	69.9
82.5°	419.4	106.1	41.4	36.2	36.2	23.3	15.5	10.4	2.6	0.0	18.1
85°	282.2	44.0	25.9	23.3	18.1	7.8	5.2	2.6	0.0	0.0	0.0
87.5°	46.6	18.1	10.4	5.2	2.6	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)