

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: P456941

Luminaire Tested: **GLAN-SA8B-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30086 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

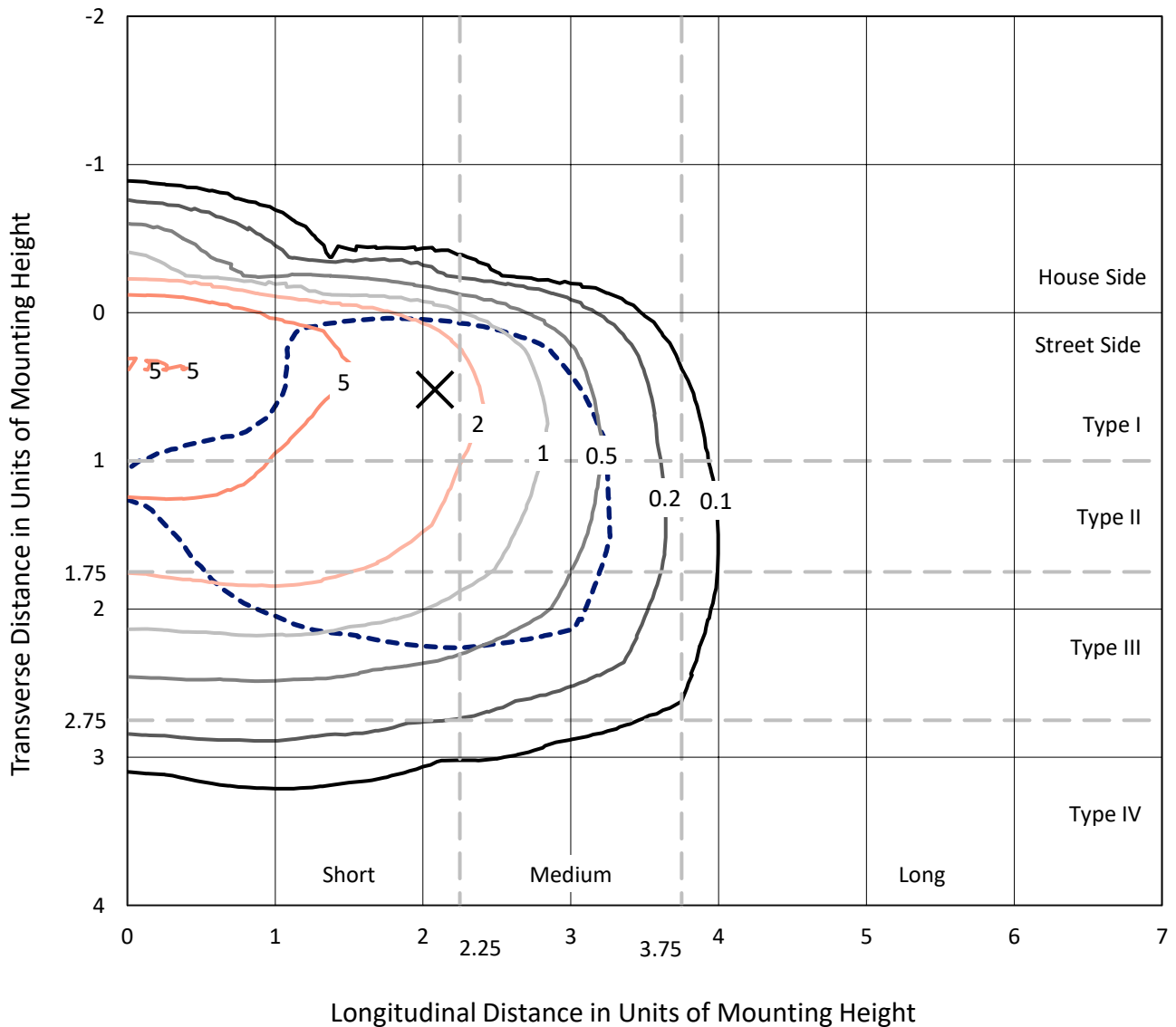




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### Iso-Footcandle Lines of Horizontal Illumination

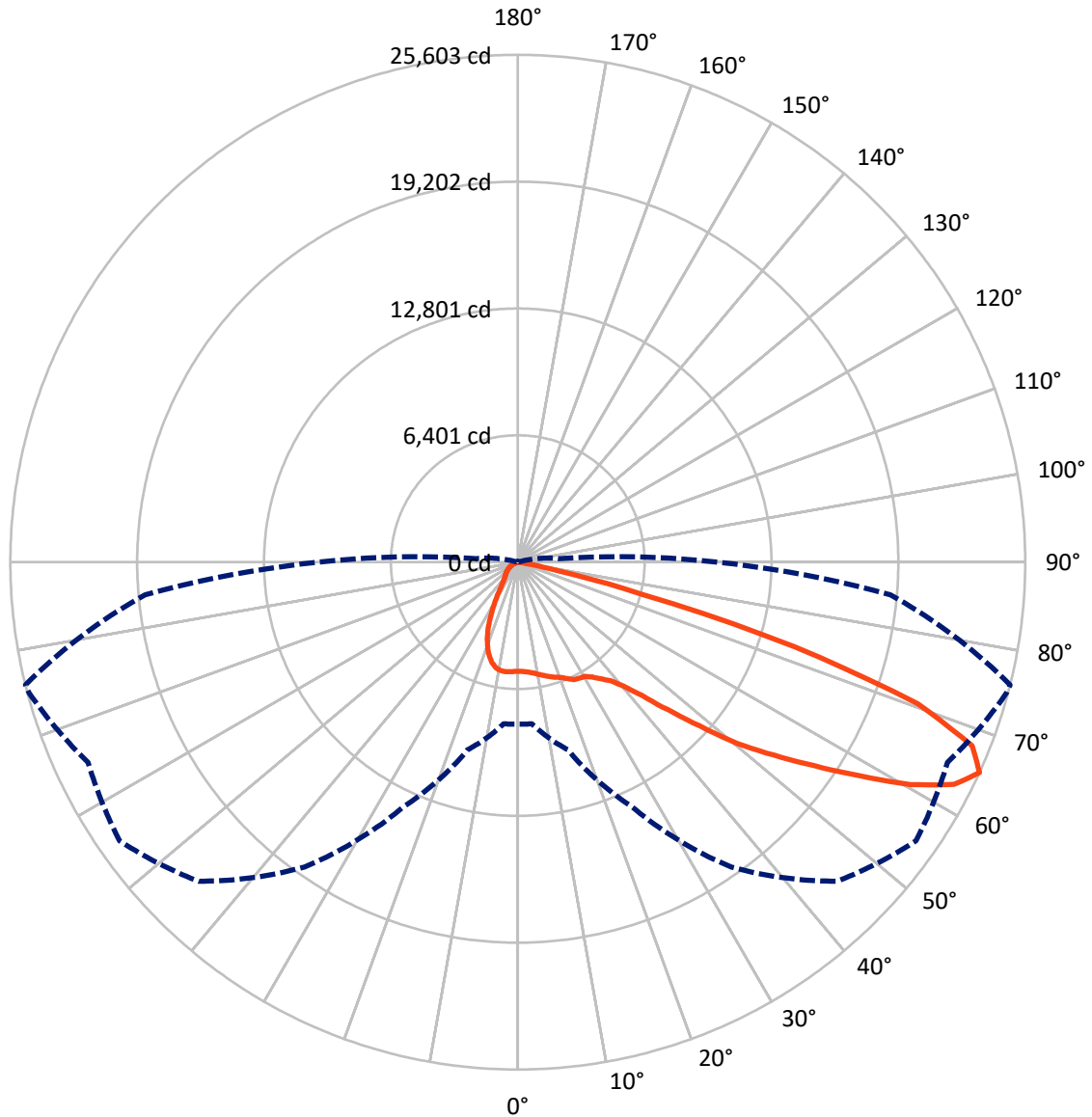
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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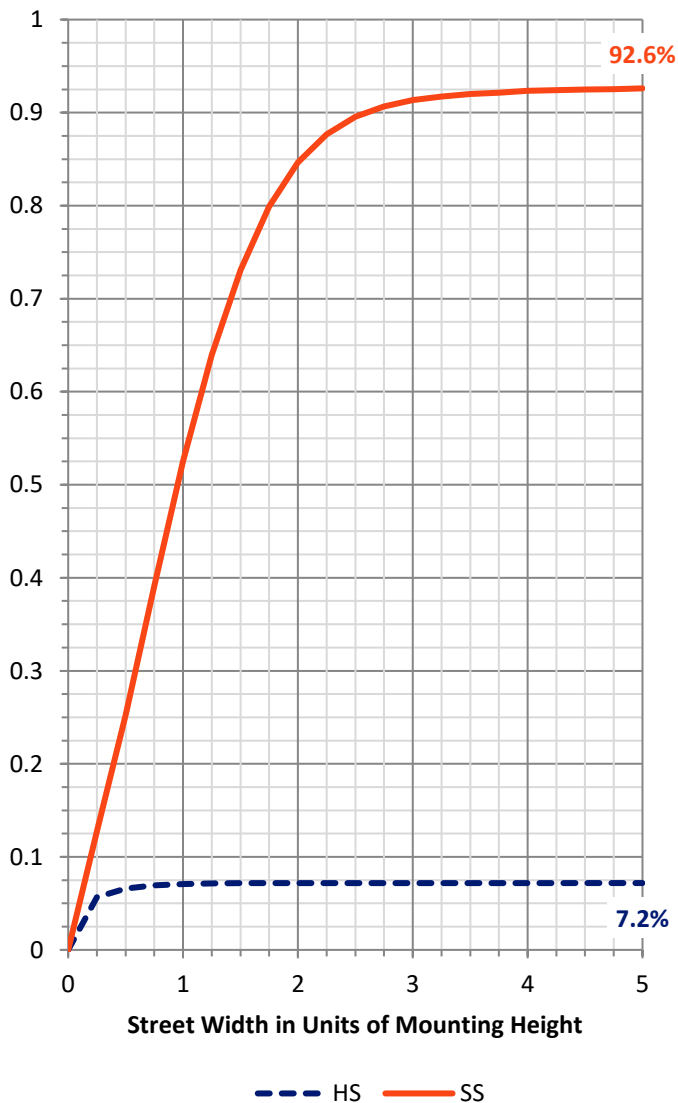
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2172.8	0.0	2172.8
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	27913.2	0.0	27913.2
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	30086.0	0.0	30086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.4	1.5
10°-20°	1009.5	3.4
20°-30°	1626.7	5.4
30°-40°	2828.4	9.4
40°-50°	4673.7	15.5
50°-60°	7220.0	24.0
60°-70°	8816.6	29.3
70°-80°	3346.1	11.1
80°-90°	111.7	0.4
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°	30086.0	100.0
0°-180°	30086.0	100.0

**Coefficient of Utilization**



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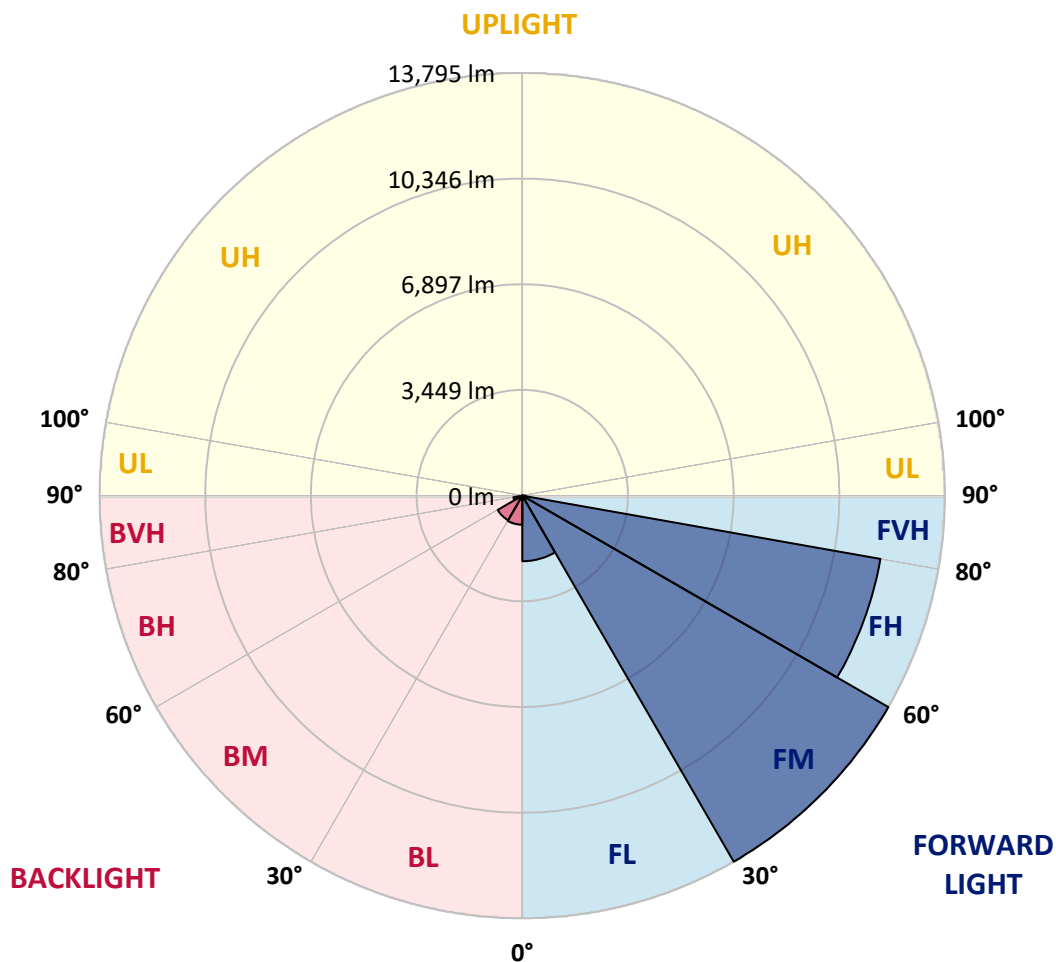
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2140.3	7.1			
FM (30°-60°)	13794.9	45.9			
FH (60°-80°)	11867.9	39.4			G4/12000
FVH (80°-90°)	110.1	0.4			G2/225
BL (0°-30°)	949.3	3.2	B2/1000		
BM (30°-60°)	927.2	3.1	B1/1000		
BH (60°-80°)	294.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7
2.5°	5259.4	5261.5	5274.3	5306.1	5355.0	5395.4	5429.3	5484.6	5522.8	5527.1	5539.8
5°	4896.2	4870.7	4896.2	4979.0	5053.4	5165.9	5304.0	5442.1	5565.3	5573.8	5633.3
7.5°	4488.3	4509.6	4549.9	4634.9	4775.1	4947.2	5146.8	5393.2	5626.9	5648.1	5765.0
10°	4074.1	4120.9	4186.7	4316.3	4511.7	4734.7	5006.6	5359.2	5724.6	5754.3	5956.1
12.5°	3691.8	3713.0	3793.7	3967.9	4210.1	4524.5	4900.4	5340.1	5832.9	5869.0	6160.1
15°	3398.7	3426.3	3496.4	3653.5	3923.3	4326.9	4813.3	5333.8	5939.1	5990.1	6364.0
17.5°	3343.4	3360.4	3390.2	3496.4	3732.1	4169.7	4734.7	5331.6	6041.1	6102.7	6553.0
20°	3570.7	3555.8	3526.1	3515.5	3645.1	4048.6	4677.4	5348.6	6138.8	6208.9	6752.7
22.5°	4140.0	4159.1	3984.9	3778.9	3736.4	4029.5	4668.9	5429.3	6293.9	6376.7	6975.7
25°	5348.6	5202.1	4930.2	4437.4	4065.6	4146.4	4764.5	5620.5	6474.4	6565.8	7177.5
27.5°	6684.7	6640.1	6217.4	5406.0	4713.5	4392.8	4934.4	5767.1	6533.9	6627.4	7292.2
30°	7997.4	8050.6	7566.2	6669.9	5654.5	4849.4	5093.7	5822.3	6587.0	6684.7	7438.8
32.5°	9214.6	9278.3	8853.5	7965.6	6763.3	5639.6	5367.7	6036.9	6810.0	6909.9	7683.1
35°	10172.6	10181.1	9860.3	9153.0	7974.1	6599.8	5960.4	6412.8	7111.7	7228.5	7942.2
37.5°	11052.0	11039.2	10663.3	10053.6	8983.1	7553.5	6706.0	6846.2	7455.8	7576.9	8316.1
40°	11704.1	11712.6	11591.5	11018.0	9924.1	8435.0	7296.5	7251.9	8033.6	8222.6	8859.9
42.5°	12139.6	12218.1	12277.6	11986.6	11107.2	9520.5	8203.5	8120.7	9036.2	9193.3	9628.8
45°	12492.2	12632.4	12929.7	12914.9	12243.6	10852.3	9448.2	9278.3	10457.2	10625.0	10608.0
47.5°	12749.2	12891.5	13384.3	13681.7	13312.1	12143.8	11013.8	10867.2	12154.4	12337.1	11689.2
50°	12880.9	13050.8	13679.6	14255.2	14146.9	13388.6	12798.0	12806.5	14204.2	14380.5	12942.5
52.5°	12572.9	12793.8	13836.8	14873.3	15083.6	14580.2	14469.8	14750.1	16028.9	16179.7	14074.7
55°	11589.4	11867.7	13622.2	15400.1	16169.1	15986.4	16368.8	16795.7	18023.5	18121.2	15236.6
57.5°	10967.0	11262.3	12989.2	15848.3	17473.3	17753.7	18359.1	18671.3	20081.8	20330.3	16570.5
60°	10442.4	10673.9	12468.8	15943.9	18798.8	19916.1	20504.5	20827.4	22622.3	22783.7	18038.3
62.5°	9569.3	9834.8	11589.4	15276.9	19465.8	21647.3	22866.5	22722.1	24587.1	24699.7	18939.0
65°	8165.3	8188.6	9805.1	13601.0	18777.5	22771.0	24525.5	23920.1	25526.0	25602.5	18868.9
67.5°	6094.2	6319.4	7542.9	10690.9	15861.1	21810.8	25062.9	23952.0	24933.3	24720.9	17371.4
70°	3925.4	4097.5	5112.8	7413.3	11436.5	18201.9	23280.8	22310.0	21883.1	21411.5	14219.1
72.5°	1811.9	2032.8	3037.5	4235.6	6782.4	12965.9	18898.6	18125.4	15750.6	14586.6	9038.3
75°	790.2	845.4	1499.7	2234.6	3179.9	6856.8	12460.3	11251.7	7113.8	6497.8	3617.4
77.5°	482.2	518.3	785.9	1198.0	1249.0	2612.7	6712.3	4908.9	2198.5	1939.4	981.4
80°	327.1	367.5	571.4	626.6	427.0	728.6	2519.2	1310.6	443.9	424.8	210.3
82.5°	159.3	201.8	422.7	350.5	184.8	233.7	732.8	280.4	129.6	121.1	74.3
85°	23.4	40.4	237.9	229.4	82.8	55.2	129.6	70.1	44.6	42.5	34.0
87.5°	0.0	0.0	80.7	36.1	8.5	8.5	14.9	14.9	17.0	14.9	17.0
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°	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7	5503.7
2.5°	5546.2	5556.8	5516.4	5459.1	5397.5	5335.9	5248.8	5170.2	5123.5	5151.1	5083.1
5°	5646.0	5637.5	5531.3	5357.1	5125.6	4847.3	4571.2	4335.4	4258.9	4144.2	4131.5
7.5°	5784.1	5760.7	5535.6	5136.2	4613.7	4091.1	3581.3	3243.6	3050.3	2886.7	2891.0
10°	5977.4	5909.4	5486.7	4747.5	3887.2	3099.1	2449.2	2003.1	1809.8	1748.2	1699.3
12.5°	6177.0	6045.3	5350.8	4222.8	3026.9	2117.8	1489.0	1217.1	1098.2	1060.0	1055.7
15°	6355.5	6147.3	5112.8	3591.9	2200.6	1353.1	1015.3	926.1	911.3	913.4	911.3
17.5°	6531.8	6228.0	4783.6	2922.8	1495.4	970.7	873.0	851.8	858.2	866.7	864.5
20°	6678.3	6245.0	4363.0	2230.4	1057.8	851.8	819.9	815.7	822.0	828.4	828.4
22.5°	6837.7	6257.8	3863.8	1544.3	864.5	792.3	775.3	775.3	783.8	792.3	794.4
25°	6956.6	6187.7	3267.0	1108.8	762.6	735.0	726.5	728.6	737.1	741.3	739.2
27.5°	6975.7	5990.1	2634.0	849.7	692.5	664.9	656.4	664.9	654.2	660.6	656.4
30°	6992.7	5739.5	1992.5	715.8	628.8	586.3	573.5	560.8	552.3	541.7	539.5
32.5°	7045.8	5444.2	1455.0	643.6	569.3	522.5	492.8	456.7	429.1	420.6	418.5
35°	7069.2	5089.5	1068.5	586.3	516.2	465.2	412.1	361.1	320.7	305.9	316.5
37.5°	7158.4	4745.4	828.4	543.8	469.4	405.7	337.7	274.0	235.8	227.3	231.5
40°	7341.1	4371.5	694.6	507.7	429.1	350.5	267.6	206.0	180.6	172.1	169.9
42.5°	7634.2	3999.8	618.1	473.7	388.7	295.3	210.3	161.4	140.2	133.8	133.8
45°	7991.1	3642.9	565.0	437.6	346.2	237.9	165.7	129.6	116.8	112.6	112.6
47.5°	8460.5	3330.7	520.4	401.5	299.5	189.0	133.8	112.6	104.1	106.2	108.3
50°	8936.3	3099.1	471.6	361.1	246.4	155.1	114.7	99.8	97.7	99.8	99.8
52.5°	9295.3	2963.2	405.7	305.9	193.3	129.6	102.0	93.5	91.3	87.1	87.1
55°	9779.6	2933.5	322.9	248.5	152.9	108.3	91.3	85.0	78.6	74.3	72.2
57.5°	10402.0	2967.4	248.5	193.3	119.0	89.2	80.7	70.1	61.6	53.1	53.1
60°	10788.6	2891.0	193.3	148.7	87.1	72.2	61.6	51.0	40.4	34.0	31.9
62.5°	10665.4	2568.1	152.9	110.5	61.6	53.1	40.4	34.0	23.4	17.0	14.9
65°	10030.3	2073.2	123.2	76.5	44.6	31.9	21.2	21.2	10.6	2.1	0.0
67.5°	8779.1	1535.8	97.7	51.0	25.5	14.9	10.6	6.4	0.0	0.0	0.0
70°	7145.7	1108.8	76.5	31.9	14.9	10.6	4.2	2.1	0.0	0.0	0.0
72.5°	4537.2	635.1	59.5	19.1	10.6	4.2	0.0	0.0	0.0	0.0	0.0
75°	1754.6	248.5	40.4	12.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	497.1	116.8	23.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.6	51.0	12.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	61.6	21.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.1	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	2.1	0.0	0.0	0.0	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)