

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: P258082

Luminaire Tested: **ARCH-L-AF72-260-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-260-D-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20434.4 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

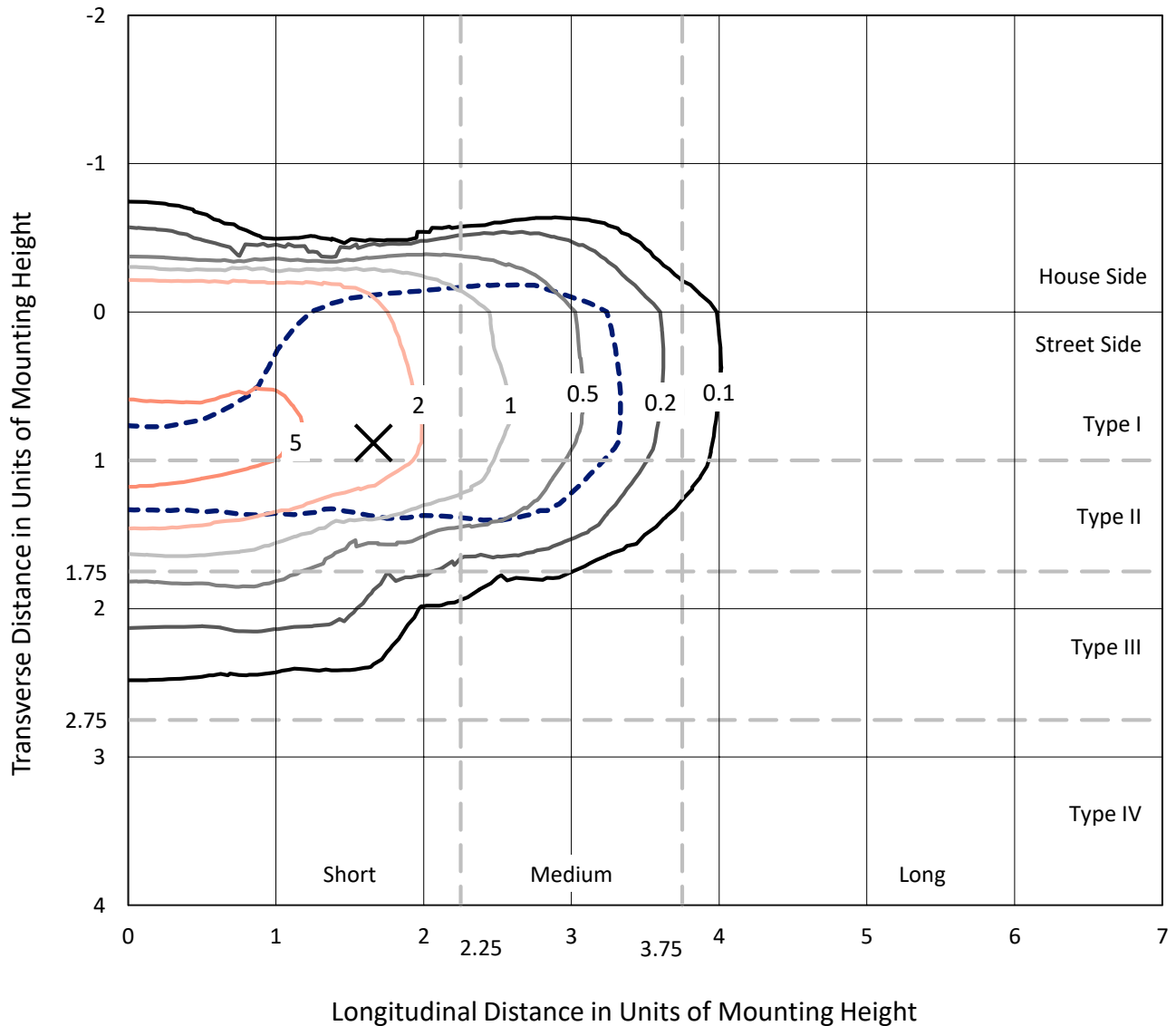
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

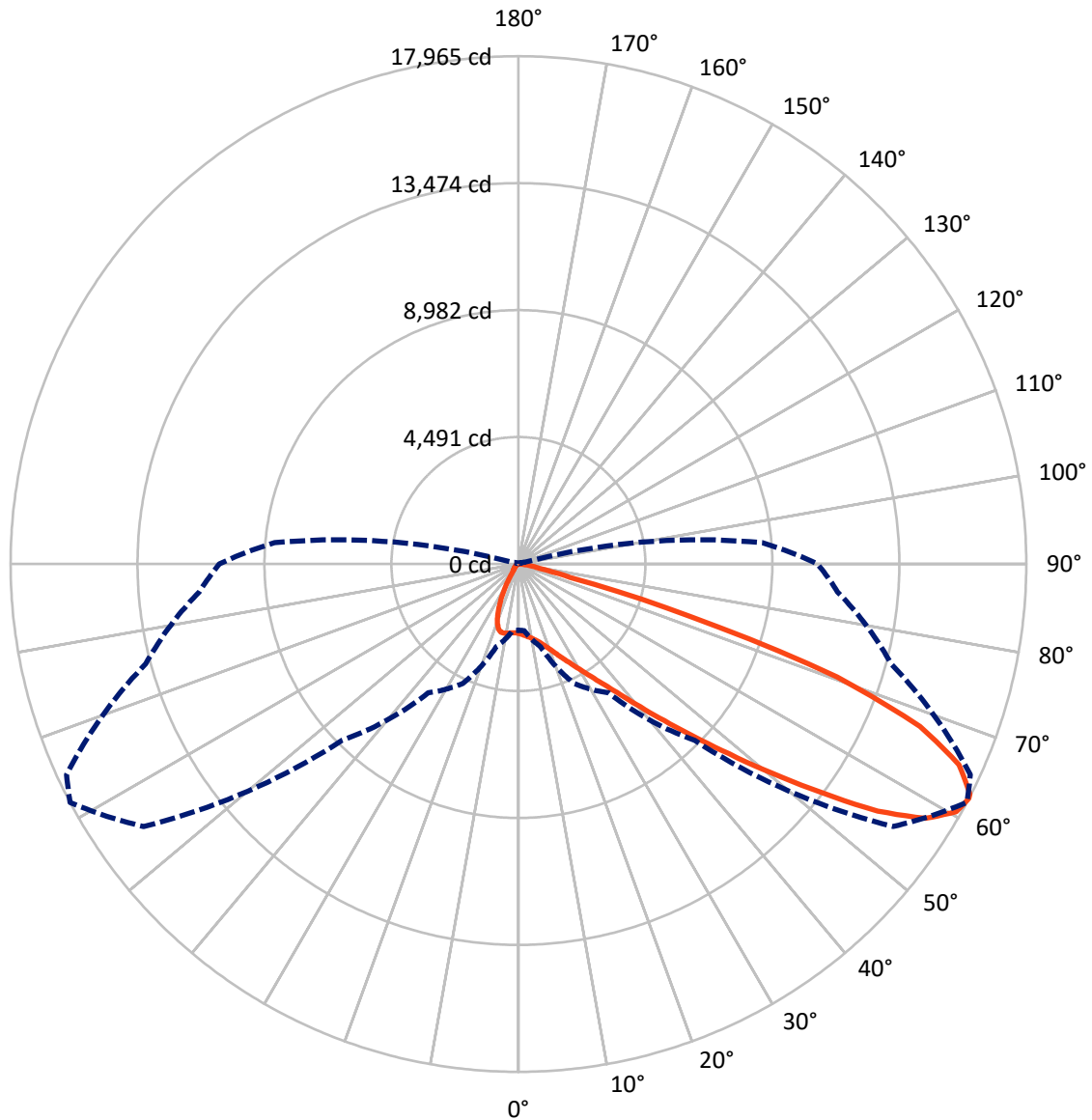
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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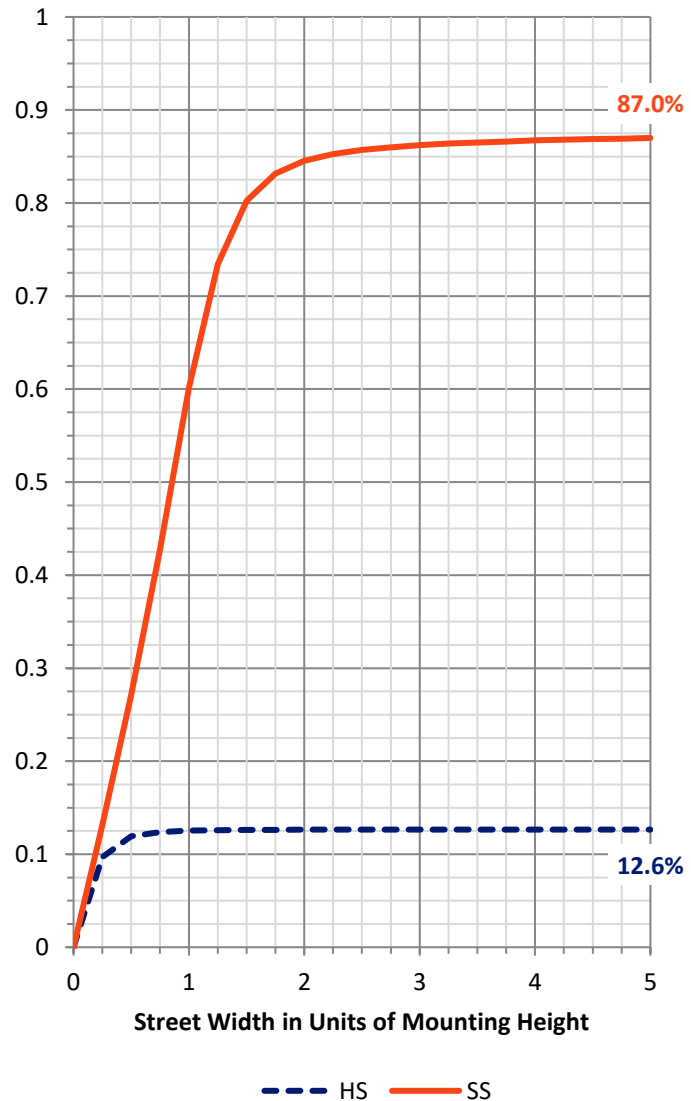
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2612.8	0.0	2612.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	17821.7	0.0	17821.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	20434.4	0.0	20434.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.2
10°-20°	661.5	3.2
20°-30°	1111.0	5.4
30°-40°	2129.7	10.4
40°-50°	4350.0	21.3
50°-60°	5756.5	28.2
60°-70°	4471.9	21.9
70°-80°	1614.1	7.9
80°-90°	102.9	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°	20434.4	100.0
0°-180°	20434.4	100.0



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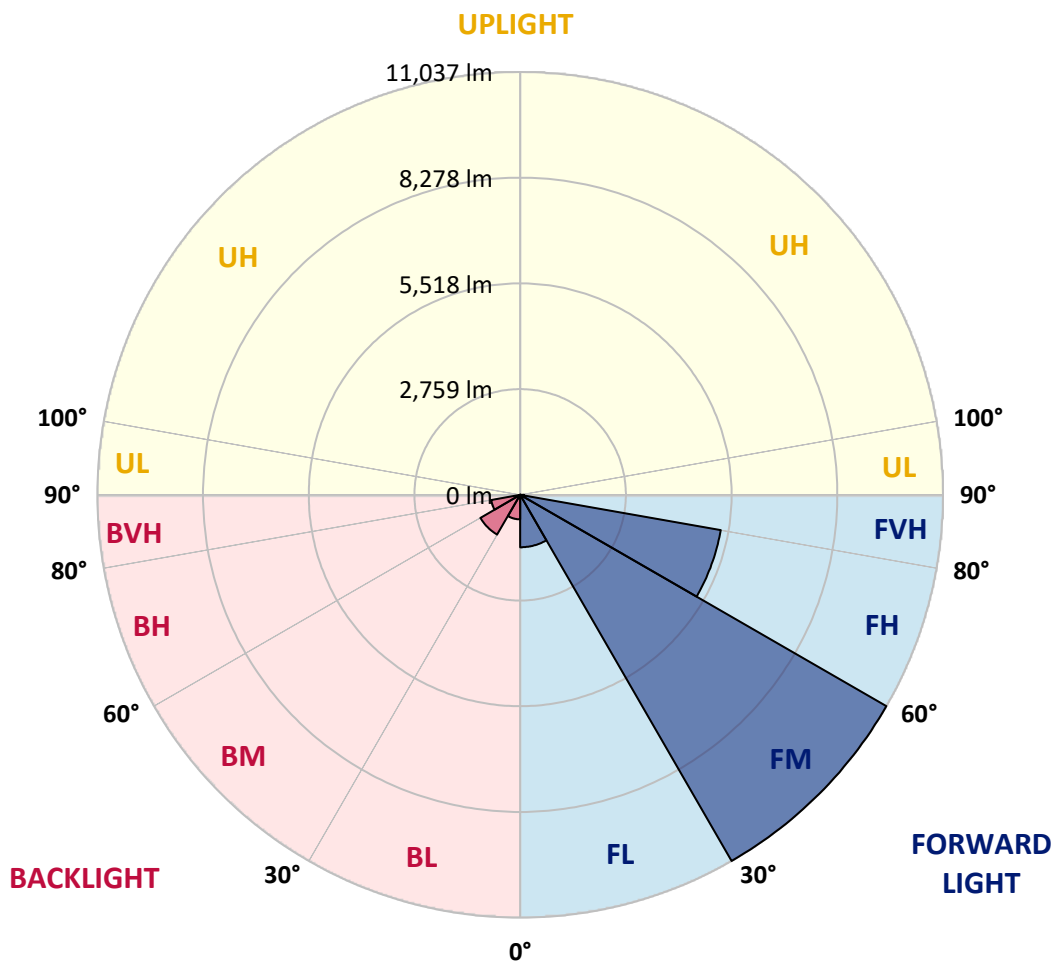
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1370.0	6.7			
FM	(30°-60°)	11036.7	54.0			
FH	(60°-80°)	5316.6	26.0			G3/7500
FVH	(80°-90°)	98.4	0.5			G1/100
BL	(0°-30°)	639.5	3.1	B2/1000		
BM	(30°-60°)	1199.5	5.9	B2/2500		
BH	(60°-80°)	769.4	3.8	B2/1000		G2/1000
BVH	(80°-90°)	4.5	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62°	65°	75°	85°
0°	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6
2.5°	2526.9	2521.9	2516.9	2511.9	2511.9	2506.8	2501.8	2491.7	2481.7	2471.7	2466.6
5°	2572.1	2567.1	2562.1	2567.1	2562.1	2562.1	2557.1	2547.0	2536.9	2521.9	2506.8
7.5°	2607.3	2602.3	2597.3	2602.3	2607.3	2612.3	2617.3	2607.3	2602.3	2582.1	2567.1
10°	2652.5	2647.5	2642.5	2652.5	2652.5	2677.6	2682.7	2677.6	2672.6	2657.5	2632.4
12.5°	2717.8	2722.8	2722.8	2732.9	2742.9	2773.0	2783.1	2768.0	2768.0	2748.0	2717.8
15°	2838.4	2838.4	2838.4	2848.4	2853.4	2893.6	2903.6	2888.6	2898.6	2863.4	2833.4
17.5°	2953.9	2959.0	2969.0	2989.1	2989.1	3024.3	3044.3	3044.3	3064.5	3019.2	2979.0
20°	3069.5	3074.5	3089.5	3134.7	3134.7	3179.9	3215.1	3230.2	3250.3	3205.1	3134.7
22.5°	3195.1	3195.1	3220.1	3290.5	3275.4	3365.8	3431.2	3456.2	3476.4	3416.1	3305.6
25°	3386.0	3365.8	3386.0	3451.2	3441.2	3566.8	3687.3	3712.5	3737.7	3667.3	3501.5
27.5°	3747.7	3717.5	3647.2	3652.2	3652.2	3797.9	3968.7	4003.8	4019.0	3958.6	3752.7
30°	4471.1	4471.1	4209.9	4034.0	3918.4	4049.0	4290.3	4350.5	4370.6	4280.1	4008.8
32.5°	5732.0	5732.0	5249.8	4802.7	4365.5	4365.5	4641.8	4752.4	4772.5	4667.0	4350.5
35°	7339.6	7329.5	6606.1	5993.3	5139.2	4817.7	5053.8	5239.7	5300.0	5159.4	4792.6
37.5°	9047.6	8982.3	8203.7	7500.4	6329.8	5541.1	5611.4	5857.6	5912.9	5797.3	5365.3
40°	10434.2	10358.8	9730.8	9143.0	7867.1	6696.5	6415.2	6641.3	6706.6	6545.9	6048.5
42.5°	11690.1	11504.2	11072.2	10650.1	9635.4	8696.0	7485.2	7575.7	7646.0	7475.2	6817.1
45°	12599.4	12313.1	12092.0	11961.4	11423.8	10891.4	8871.8	8691.0	8716.1	8505.1	7656.1
47.5°	12624.4	12423.5	12443.6	12785.2	13006.3	12986.2	10675.3	10032.3	9936.8	9585.2	8550.3
50°	11418.8	11534.4	11901.1	12875.7	14071.3	14794.7	12820.4	11619.7	11333.4	10700.4	9439.5
52.5°	9409.3	9590.2	10278.4	11921.2	14227.0	15985.3	15045.9	13433.3	12920.9	11805.7	10122.7
55°	7369.7	7379.8	8103.2	9776.0	13187.2	16201.3	16824.3	15427.7	14644.0	12644.6	10574.9
57.5°	5068.9	5345.2	6264.6	7389.8	10841.0	15126.3	17492.5	16974.9	15965.2	13162.0	10891.4
60°	3320.6	3335.7	4405.7	5706.8	7379.8	12307.9	17085.5	17793.8	17035.3	13468.5	11107.3
62°	2341.0	2366.2	3029.3	4662.0	5561.2	8821.5	16186.3	17964.7	17638.1	13649.3	11333.4
62.5°	2170.2	2190.3	2748.0	4400.7	5224.6	7912.3	15864.7	17924.5	17728.6	13709.6	11413.8
65°	1592.5	1592.5	1798.4	3024.3	3828.1	4275.1	13443.3	17125.7	17608.0	14191.9	11715.2
67.5°	1230.8	1240.8	1311.2	1863.8	2888.6	2592.3	8580.4	15327.2	16352.1	14905.2	11886.0
70°	1060.0	1055.0	1105.2	1235.8	2084.8	1723.2	3777.8	11961.4	13694.5	14724.4	11730.3
72.5°	783.7	788.7	904.3	1085.1	1451.9	1120.2	1708.0	6350.0	8881.9	11524.3	10052.3
75°	502.4	507.4	638.0	854.1	1044.9	733.5	984.6	1893.9	3637.1	6390.1	6149.0
77.5°	336.6	346.7	417.0	597.8	914.3	457.2	617.9	793.7	1095.2	2396.3	2205.4
80°	226.1	226.1	266.3	401.9	577.8	381.8	331.5	527.5	567.6	743.5	371.7
82.5°	150.7	150.7	175.8	266.3	376.8	341.6	200.9	286.3	331.5	371.7	130.6
85°	90.4	90.4	120.6	165.8	246.1	190.9	130.6	160.8	170.8	236.1	70.4
87.5°	55.2	50.2	80.4	115.6	130.6	115.6	85.4	85.4	90.4	130.6	35.2
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°	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6	2461.6
2.5°	2456.6	2451.5	2446.5	2436.5	2421.4	2411.4	2401.3	2391.2	2381.2	2381.2	2396.3
5°	2501.8	2486.7	2466.6	2446.5	2416.4	2396.3	2381.2	2361.2	2351.0	2351.0	2356.1
7.5°	2557.1	2541.9	2506.8	2471.7	2426.4	2391.2	2356.1	2310.8	2275.8	2260.6	2275.8
10°	2617.3	2597.3	2547.0	2491.7	2441.5	2351.0	2235.6	2094.9	1974.3	1919.1	1944.1
12.5°	2692.7	2667.5	2607.3	2531.9	2416.4	2195.4	1909.0	1582.5	1376.5	1281.0	1301.1
15°	2803.2	2768.0	2682.7	2567.1	2310.8	1833.6	1366.5	989.7	798.7	718.4	728.4
17.5°	2933.8	2888.6	2773.0	2557.1	2039.6	1321.2	813.9	577.8	497.4	477.2	477.2
20°	3074.5	3014.2	2863.4	2481.7	1627.7	828.9	507.4	442.1	411.9	396.9	396.9
22.5°	3220.1	3139.7	2938.8	2305.8	1160.4	517.4	417.0	371.7	336.6	321.5	321.5
25°	3396.0	3290.5	3014.2	1999.5	738.5	417.0	356.7	311.5	276.3	256.2	261.3
27.5°	3602.0	3466.4	3079.5	1617.6	477.2	361.7	296.3	251.1	221.1	211.0	211.0
30°	3818.0	3657.3	3094.6	1210.7	386.8	311.5	246.1	205.9	185.9	175.8	175.8
32.5°	4114.4	3903.4	3049.4	803.8	326.5	261.3	205.9	170.8	155.7	150.7	150.7
35°	4506.2	4224.9	2943.8	497.4	276.3	216.0	170.8	150.7	135.6	130.6	130.6
37.5°	5003.6	4672.0	2758.0	341.6	236.1	175.8	145.7	130.6	120.6	115.6	115.6
40°	5666.7	5214.6	2516.9	296.3	200.9	150.7	125.6	115.6	105.5	105.5	105.5
42.5°	6370.0	5872.7	2205.4	261.3	170.8	130.6	110.5	100.5	95.4	90.4	90.4
45°	7138.7	6545.9	1818.6	231.1	145.7	115.6	100.5	85.4	80.4	80.4	80.4
47.5°	7902.2	7239.1	1396.5	200.9	125.6	100.5	85.4	75.4	70.4	65.3	65.3
50°	8685.9	7867.1	1024.8	175.8	110.5	90.4	75.4	65.3	55.2	50.2	50.2
52.5°	9253.6	8243.9	748.5	150.7	95.4	75.4	60.3	50.2	40.2	35.2	35.2
55°	9670.6	8474.9	547.6	125.6	85.4	65.3	50.2	40.2	30.2	30.2	25.2
57.5°	9997.1	8585.4	411.9	110.5	75.4	55.2	40.2	30.2	25.2	20.0	20.0
60°	10248.3	8590.4	306.5	90.4	65.3	45.2	30.2	20.0	15.0	15.0	15.0
62°	10579.9	8655.8	251.1	75.4	60.3	40.2	25.2	15.0	10.0	5.0	5.0
62.5°	10675.3	8680.9	241.1	75.4	55.2	35.2	20.0	15.0	10.0	5.0	5.0
65°	11117.4	8726.1	185.9	60.3	45.2	30.2	15.0	10.0	0.0	0.0	0.0
67.5°	11519.2	8655.8	135.6	45.2	35.2	20.0	15.0	5.0	0.0	0.0	0.0
70°	11479.0	8173.5	95.4	30.2	25.2	15.0	10.0	0.0	0.0	0.0	0.0
72.5°	9459.5	6118.8	65.3	25.2	15.0	10.0	5.0	0.0	0.0	0.0	0.0
75°	5712.0	2677.6	45.2	15.0	15.0	10.0	5.0	0.0	0.0	0.0	0.0
77.5°	1873.8	969.6	30.2	10.0	10.0	5.0	5.0	0.0	0.0	0.0	0.0
80°	306.5	160.8	15.0	10.0	10.0	5.0	5.0	0.0	0.0	0.0	0.0
82.5°	95.4	40.2	10.0	10.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	15.0	10.0	10.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	10.0	10.0	10.0	5.0	5.0	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)