

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: P300896

Luminaire Tested: **GAA-AF-10-LED-U-SL4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-10-LED-U-SL4-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45526.8 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 558
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

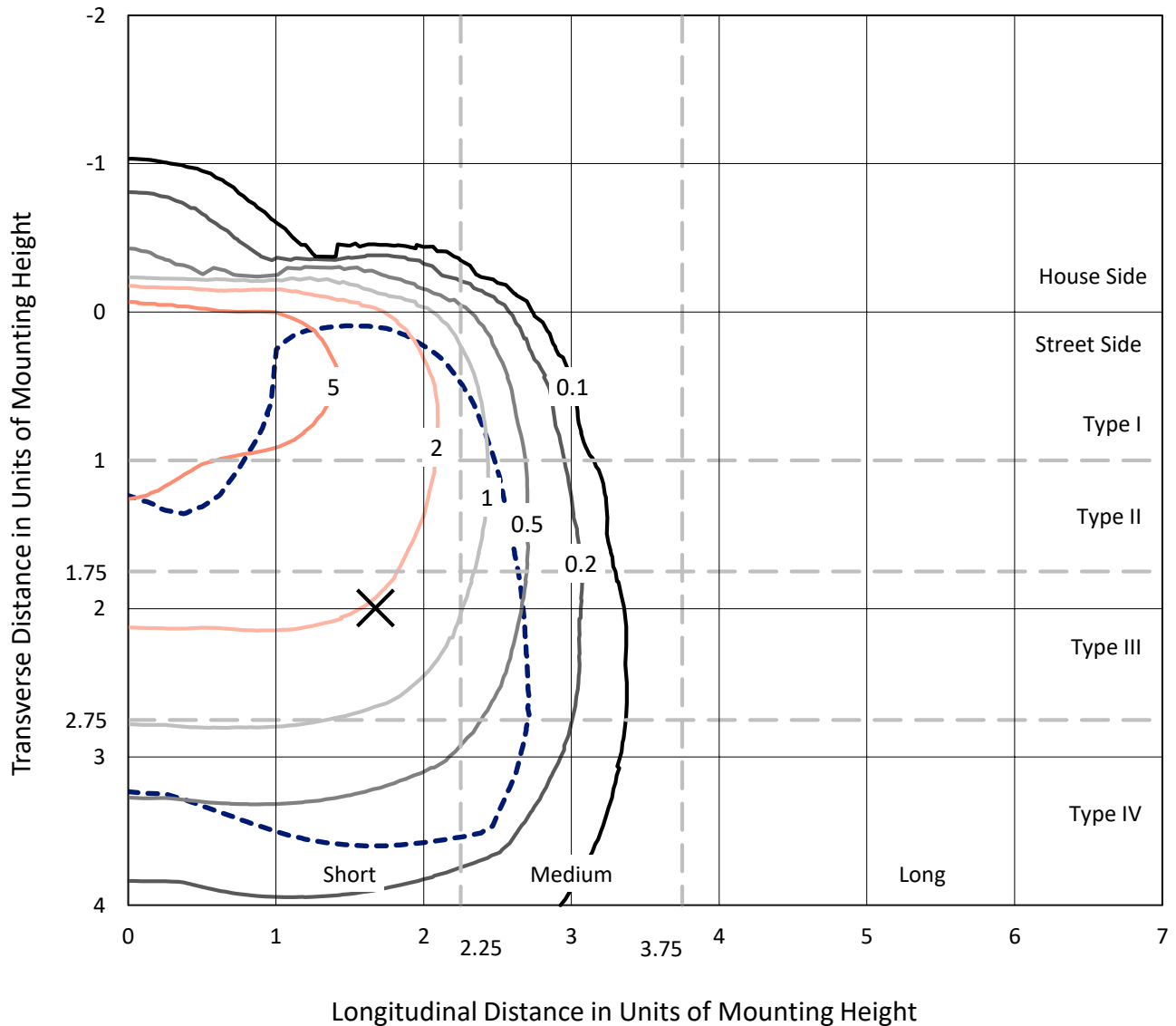


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

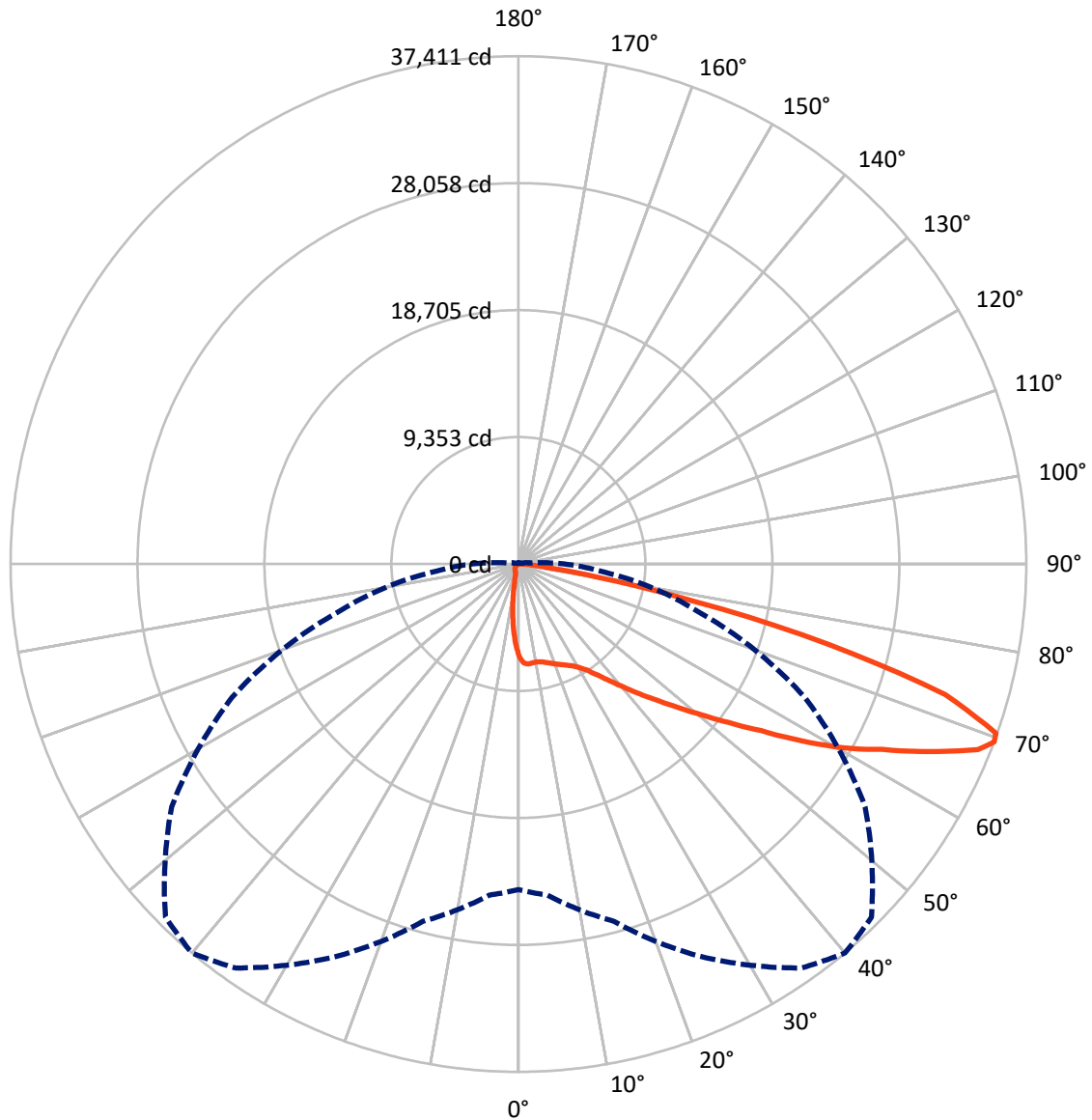


Based on 30 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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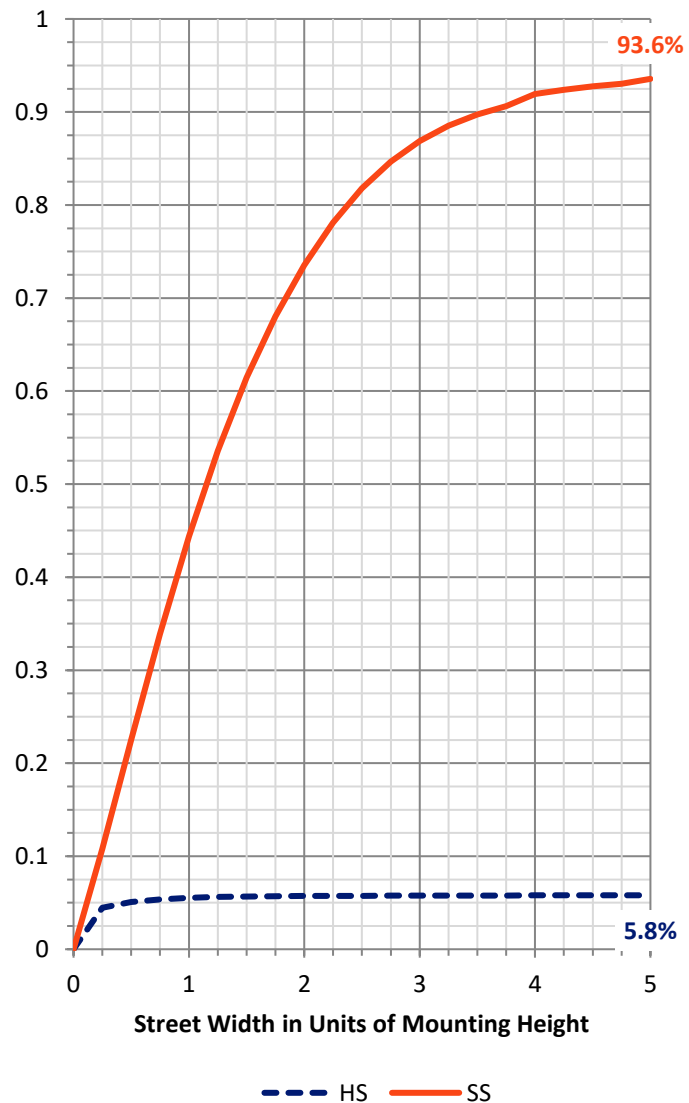
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.6	0.0	2663.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	42863.2	0.0	42863.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	45526.8	0.0	45526.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.2
10°-20°	1356.2	3.0
20°-30°	2284.4	5.0
30°-40°	3739.6	8.2
40°-50°	6475.0	14.2
50°-60°	10198.8	22.4
60°-70°	13319.2	29.3
70°-80°	6860.0	15.1
80°-90°	742.0	1.6
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°	45526.8	100.0
0°-180°	45526.8	100.0



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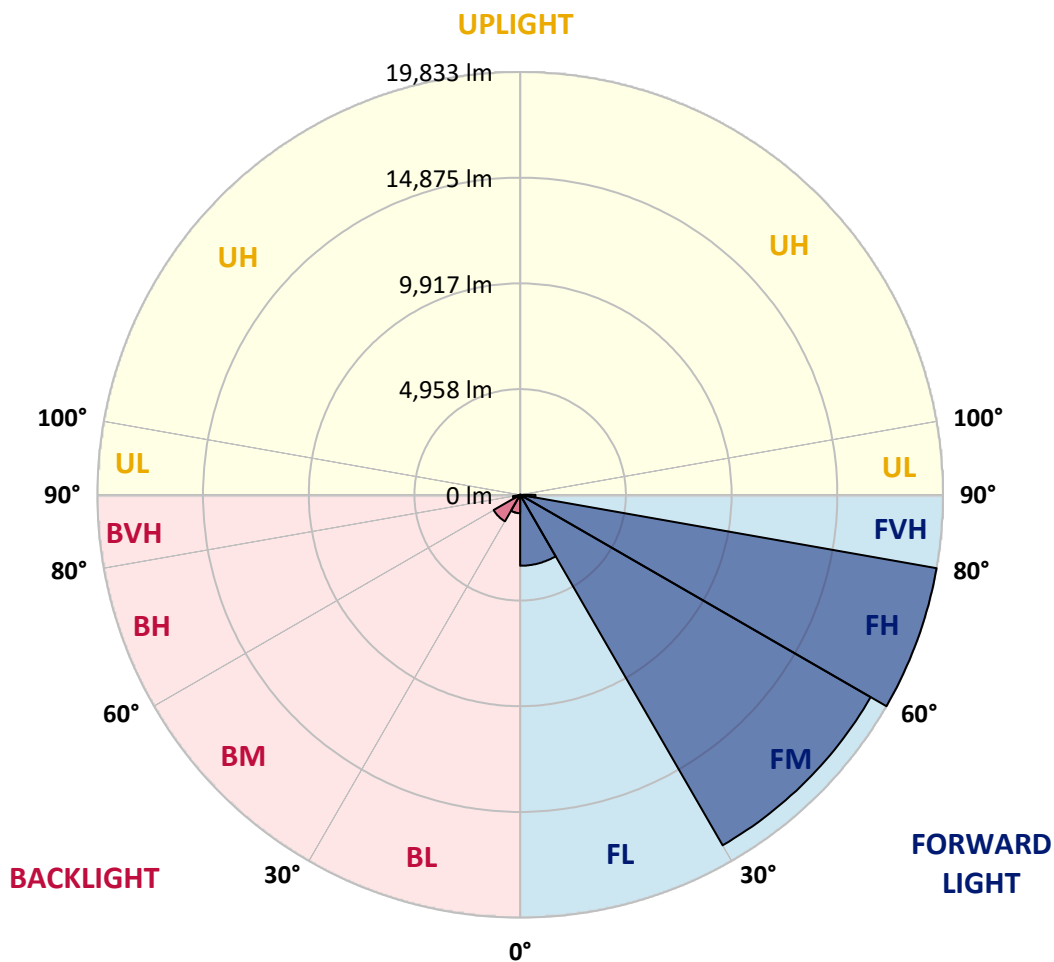
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3329.3	7.3			
FM	(30°-60°)	18981.8	41.7			
FH	(60°-80°)	19833.4	43.6			G5
FVH	(80°-90°)	718.8	1.6			G4/750
BL	(0°-30°)	862.8	1.9	B2/1000		
BM	(30°-60°)	1431.6	3.1	B2/2500		
BH	(60°-80°)	345.9	0.8	B1/500		G1/500
BVH	(80°-90°)	23.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9
2.5°	7468.6	7427.9	7403.5	7371.0	7330.4	7295.1	7281.6	7181.3	7086.5	6956.4	6807.4
5°	7606.8	7593.2	7549.9	7506.5	7457.7	7403.5	7373.7	7254.5	7119.0	6929.3	6669.2
7.5°	7620.3	7604.1	7549.9	7490.3	7422.5	7357.5	7306.0	7186.7	7062.1	6869.7	6552.6
10°	7598.7	7579.7	7539.0	7474.0	7390.0	7327.7	7276.2	7162.4	7056.7	6883.2	6530.9
12.5°	7574.3	7555.3	7536.3	7503.8	7430.6	7387.3	7343.9	7235.5	7140.7	6994.3	6609.5
15°	7598.7	7587.8	7609.5	7596.0	7555.3	7517.4	7474.0	7376.4	7289.7	7167.8	6753.2
17.5°	7701.6	7701.6	7769.4	7777.5	7739.6	7685.4	7623.0	7525.5	7452.3	7349.3	6923.9
20°	7942.8	7934.7	8021.4	8037.7	7945.5	7861.5	7769.4	7650.1	7593.2	7528.2	7091.9
22.5°	8357.4	8319.5	8371.0	8354.7	8173.2	8043.1	7929.3	7782.9	7753.1	7723.3	7278.9
25°	8896.7	8875.0	8910.3	8750.4	8430.6	8254.5	8119.0	7953.7	7953.7	7983.5	7490.3
27.5°	9679.9	9598.6	9479.4	9197.5	8717.9	8492.9	8346.6	8170.5	8216.5	8327.6	7769.4
30°	10482.0	10392.6	10118.9	9685.3	9067.4	8831.7	8661.0	8476.7	8585.1	8788.3	8143.4
32.5°	11273.3	11173.1	10785.5	10238.1	9568.8	9333.0	9167.7	8964.5	9146.0	9487.5	8690.8
35°	12040.2	11950.8	11503.7	10858.7	10235.4	10040.3	9888.6	9712.4	9945.5	10422.4	9463.1
37.5°	12902.0	12804.4	12259.7	11560.6	11045.7	10904.8	10793.7	10617.5	11024.0	11723.2	10538.9
40°	13961.6	13796.3	13061.9	12365.4	11983.3	11915.6	11839.7	11815.3	12446.7	13414.2	11972.5
42.5°	15175.6	14904.6	13902.0	13213.6	13013.1	13061.9	13042.9	13151.3	14227.2	15517.1	13717.7
45°	16389.7	16040.1	14836.9	14118.8	14145.9	14316.6	14422.3	14855.9	16457.4	17928.9	15595.7
47.5°	17419.5	17075.3	15733.9	15097.1	15422.2	15758.3	16045.5	16866.6	18750.0	20302.8	17056.3
50°	18300.2	17975.0	16685.1	16172.9	16904.6	17446.6	17912.7	19129.4	21216.1	22110.4	18080.7
52.5°	19021.0	18804.2	17671.5	17405.9	18598.3	19392.3	20075.2	21533.2	23400.3	23579.2	18877.4
55°	19722.9	19568.4	18731.1	18872.0	20587.4	21668.6	22533.1	24083.2	25281.0	24804.0	19641.6
57.5°	20530.5	20389.6	19939.7	20731.0	23202.5	24562.9	25505.9	26343.3	26936.8	26056.0	20362.5
60°	21354.3	21273.0	21283.8	22796.0	26205.1	27511.3	28031.6	28248.4	28562.7	27234.9	20403.1
62.5°	22140.2	22294.6	22820.4	25094.0	29080.3	30083.0	30345.9	30559.9	30191.4	27421.8	18850.3
65°	23470.8	23722.8	24977.5	28169.8	32242.8	33316.0	33586.9	32852.6	30448.8	25004.6	15332.8
67.5°	24121.1	24581.8	26820.2	31036.9	35310.5	36502.8	36402.6	33001.6	27324.3	19067.1	9839.8
69°	23985.6	24476.1	27245.7	31914.9	36329.4	37410.7	36773.8	31177.8	23278.3	13812.5	6040.4
70°	23449.1	23945.0	27026.2	31882.4	36459.5	37315.8	36085.5	28925.9	19682.3	10099.9	3777.7
72.5°	19582.0	20010.2	23993.8	28817.5	33586.9	32890.5	30188.7	20040.0	9590.5	2750.6	850.9
75°	12053.8	12292.3	17216.2	21709.3	25367.7	23579.2	20113.1	9969.9	2859.0	777.8	471.5
77.5°	6368.3	6476.7	9425.2	12796.3	16080.8	13305.8	10308.6	3888.8	1317.0	487.8	341.5
80°	3764.1	3845.4	5075.7	5850.8	6959.1	5812.8	4121.8	2387.5	943.1	306.2	303.5
82.5°	2154.4	2205.9	3680.1	3251.9	2742.5	2341.4	2051.4	2262.8	566.4	206.0	314.4
85°	791.3	802.1	2070.4	2474.2	1631.4	970.2	1018.9	1875.3	151.8	130.1	246.6
87.5°	368.6	360.4	1065.0	1514.9	953.9	615.2	794.0	411.9	59.6	84.0	67.7
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°	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9	6801.9
2.5°	6720.6	6620.4	6438.8	6251.8	6062.1	5915.8	5772.2	5658.3	5620.4	5549.9	5555.4
5°	6514.7	6330.4	5951.0	5566.2	5165.1	4834.5	4522.9	4270.9	4148.9	4024.3	4024.3
7.5°	6335.8	6067.5	5474.1	4848.1	4200.4	3655.7	3165.2	2796.7	2593.4	2430.8	2428.1
10°	6268.1	5905.0	5075.7	4178.7	3276.3	2533.8	1951.2	1577.2	1384.8	1260.1	1254.7
12.5°	6297.9	5848.0	4769.5	3560.9	2428.1	1628.7	1130.0	888.9	807.6	769.6	769.6
15°	6384.6	5831.8	4463.3	2956.5	1715.4	1018.9	750.7	685.6	680.2	680.2	680.2
17.5°	6490.3	5837.2	4148.9	2368.5	1168.0	729.0	647.7	639.5	645.0	645.0	645.0
20°	6598.7	5839.9	3810.2	1823.8	823.8	634.1	609.7	607.0	612.4	612.4	615.2
22.5°	6731.5	5853.5	3471.4	1363.1	680.2	598.9	579.9	579.9	582.6	582.6	579.9
25°	6883.2	5880.6	3119.1	1010.8	620.6	574.5	558.2	555.5	558.2	555.5	552.8
27.5°	7072.9	5918.5	2726.2	791.3	593.5	550.1	536.6	536.6	533.9	531.1	528.4
30°	7311.4	5961.9	2284.5	672.1	566.4	528.4	514.9	512.2	509.5	504.0	504.0
32.5°	7674.5	6056.7	1848.2	609.7	536.6	498.6	487.8	487.8	482.4	476.9	474.2
35°	8232.8	6243.7	1457.9	571.8	504.0	466.1	452.6	452.6	447.1	444.4	441.7
37.5°	9005.1	6528.2	1132.8	536.6	471.5	430.9	417.3	414.6	409.2	403.8	401.1
40°	10032.2	6880.5	891.6	504.0	439.0	395.7	384.8	379.4	368.6	360.4	360.4
42.5°	11322.1	7281.6	723.6	468.8	401.1	363.1	355.0	346.9	327.9	319.8	317.1
45°	12671.7	7642.0	612.4	428.2	363.1	330.6	325.2	311.6	287.3	279.1	279.1
47.5°	13644.5	7726.0	539.3	390.2	327.9	295.4	292.7	268.3	246.6	241.2	238.5
50°	14251.6	7560.7	479.7	352.3	295.4	262.9	254.7	224.9	211.4	206.0	203.2
52.5°	14660.8	7265.3	430.9	319.8	265.6	233.1	214.1	192.4	181.6	176.1	176.1
55°	14988.7	6848.0	382.1	290.0	241.2	208.7	181.6	165.3	154.5	149.0	149.0
57.5°	15080.8	6281.6	333.3	265.6	216.8	184.3	154.5	143.6	130.1	127.4	127.4
60°	14411.4	5260.0	295.4	235.8	195.1	159.9	135.5	121.9	108.4	105.7	103.0
62.5°	12647.3	4070.3	260.2	208.7	170.7	138.2	116.5	100.3	89.4	89.4	89.4
65°	9647.4	2728.9	227.6	181.6	149.0	116.5	100.3	81.3	75.9	75.9	78.6
67.5°	5774.9	1485.0	195.1	154.5	127.4	97.6	84.0	70.5	67.7	70.5	70.5
69°	3384.7	872.6	176.1	138.2	111.1	86.7	73.2	62.3	67.7	70.5	70.5
70°	2089.4	588.1	162.6	124.7	100.3	78.6	67.7	59.6	65.0	67.7	67.7
72.5°	582.6	303.5	130.1	97.6	81.3	65.0	54.2	54.2	62.3	65.0	65.0
75°	379.4	224.9	100.3	73.2	62.3	51.5	46.1	51.5	59.6	62.3	62.3
77.5°	314.4	184.3	81.3	59.6	51.5	48.8	43.4	46.1	54.2	56.9	56.9
80°	287.3	130.1	65.0	54.2	46.1	43.4	40.6	37.9	48.8	51.5	51.5
82.5°	273.7	103.0	56.9	48.8	43.4	37.9	35.2	37.9	43.4	46.1	48.8
85°	170.7	67.7	51.5	46.1	37.9	35.2	35.2	35.2	40.6	43.4	43.4
87.5°	62.3	54.2	46.1	37.9	32.5	32.5	32.5	32.5	35.2	40.6	40.6
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)