

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: P319144

Luminaire Tested: **GAN-SA0D-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76262 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - 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

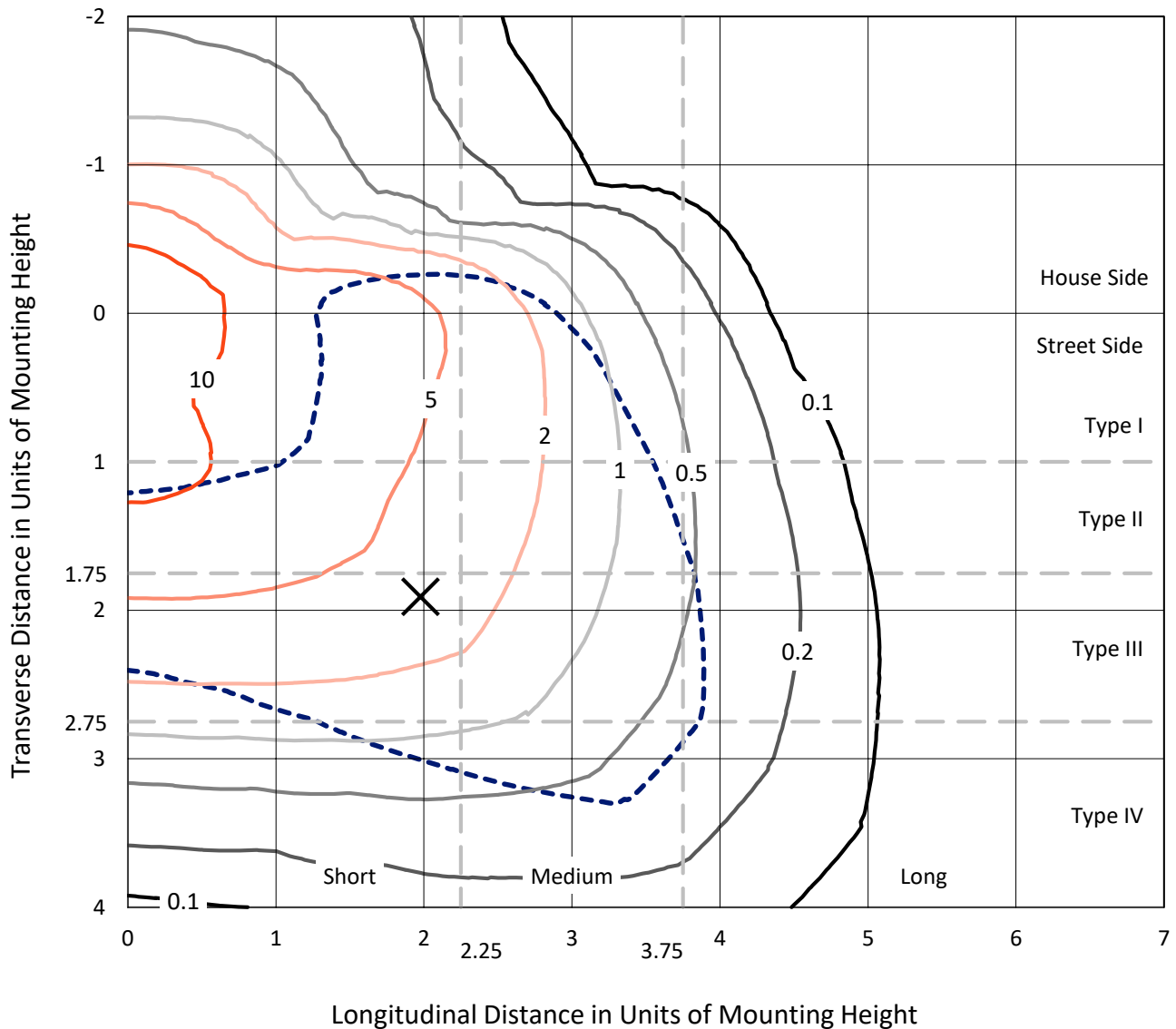


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

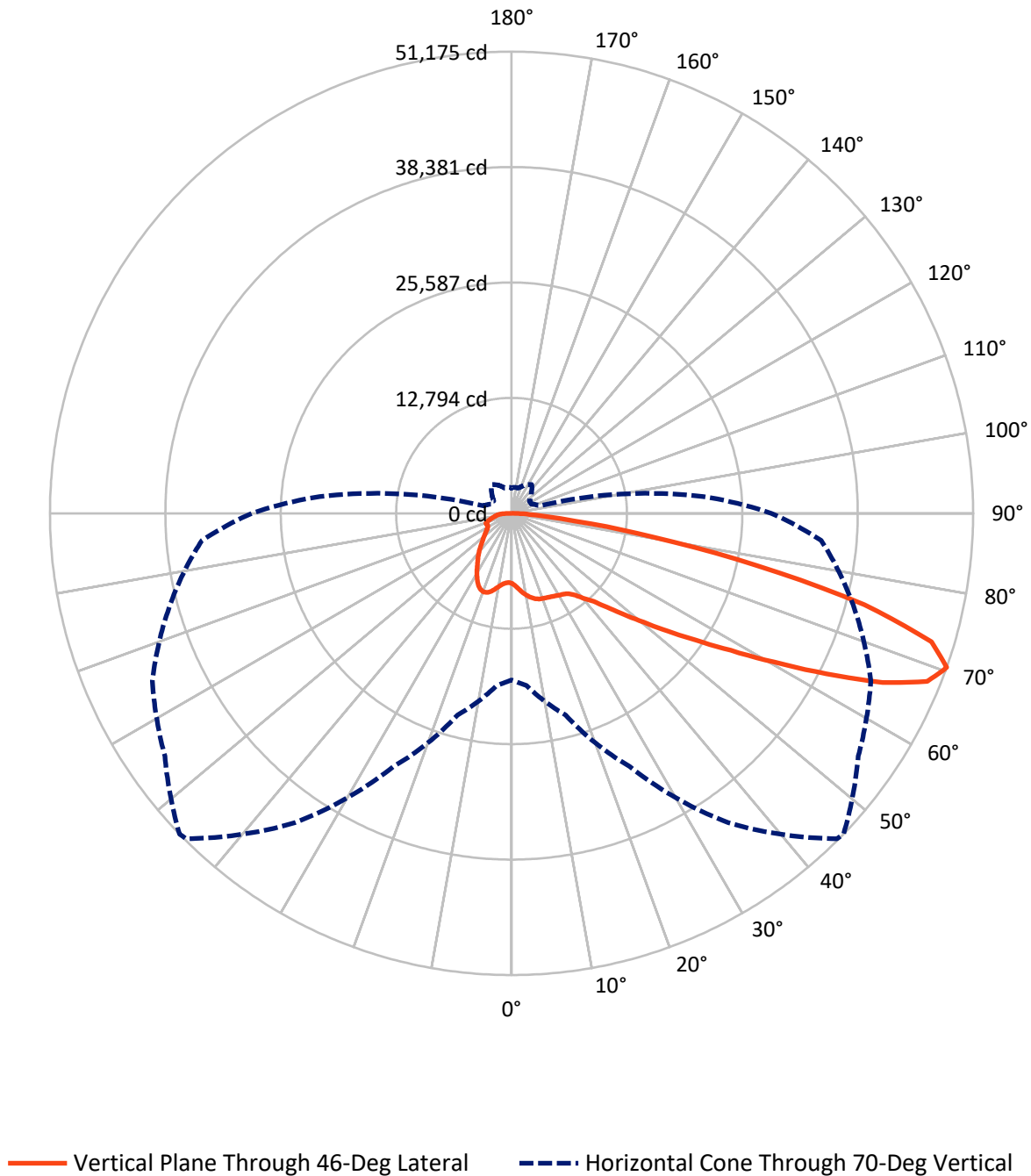


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17479.0	0.0	17479.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	58783.0	0.0	58783.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	76262.0	0.0	76262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.0	1.0
10°-20°	2638.9	3.5
20°-30°	4400.0	5.8
30°-40°	6243.9	8.2
40°-50°	9184.5	12.0
50°-60°	15553.9	20.4
60°-70°	22078.5	29.0
70°-80°	13412.9	17.6
80°-90°	1957.4	2.6
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°	76262.0	100.0
0°-180°	76262.0	100.0

Coefficient of Utilization



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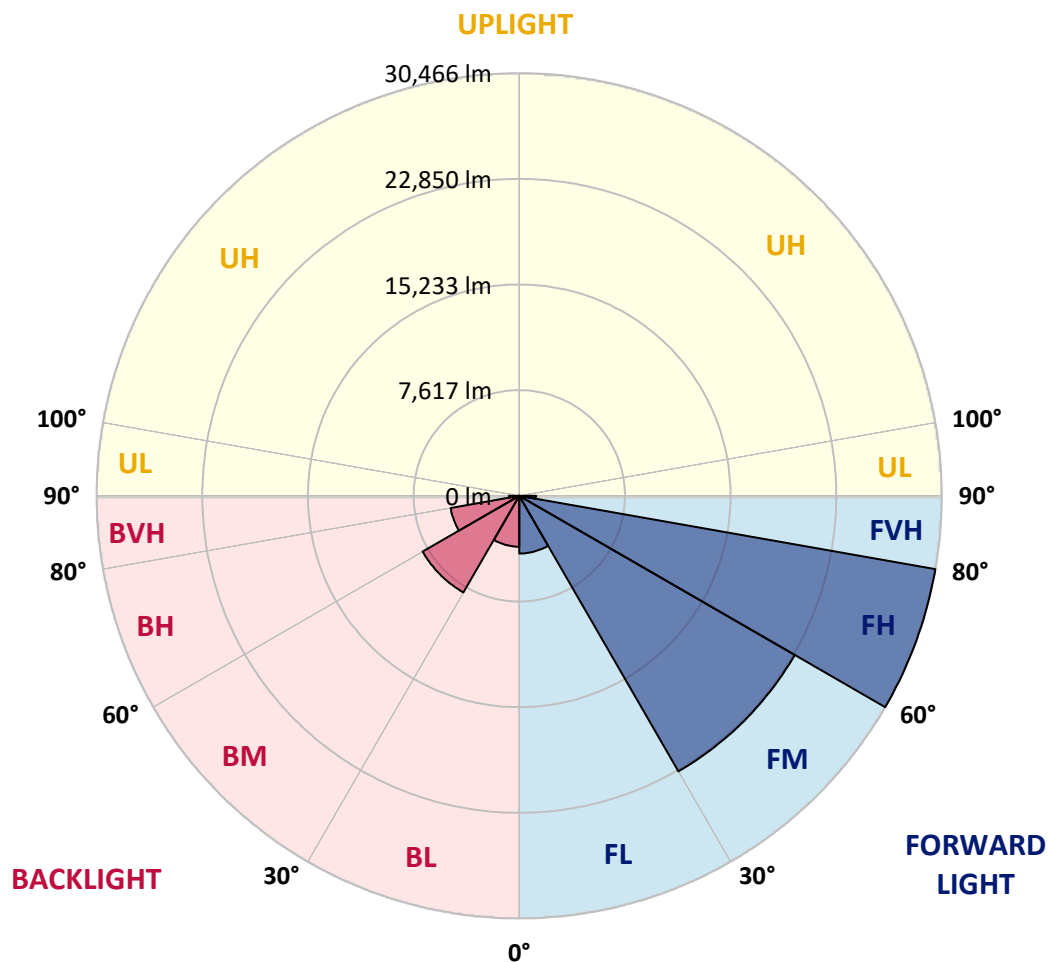
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4161.2	5.5			
FM	(30°-60°)	22936.2	30.1			
FH	(60°-80°)	30466.2	39.9			G5
FVH	(80°-90°)	1219.3	1.6			G5
BL	(0°-30°)	3669.8	4.8	B4/5000		
BM	(30°-60°)	8046.1	10.6	B4/8500		
BH	(60°-80°)	5025.1	6.6	B5		G5
BVH	(80°-90°)	738.1	1.0			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6
2.5°	8158.5	8163.7	8174.1	8148.0	8075.0	8054.1	8046.3	7970.6	7921.0	7847.9	7785.3
5°	8810.9	8816.2	8800.5	8727.4	8565.6	8445.6	8435.1	8262.9	8106.3	7939.2	7814.0
7.5°	9492.1	9500.0	9450.4	9312.0	9085.0	8876.2	8863.1	8628.3	8390.8	8137.6	7949.7
10°	10095.0	10063.7	9982.8	9789.7	9520.8	9265.1	9254.6	9009.3	8735.3	8429.9	8179.4
12.5°	10496.9	10470.8	10366.4	10131.5	9836.6	9601.7	9580.9	9353.8	9087.6	8753.5	8453.4
15°	10718.8	10737.0	10596.1	10329.9	10042.8	9844.5	9826.2	9664.4	9426.9	9090.2	8745.7
17.5°	10747.5	10763.1	10627.4	10363.8	10128.9	9993.2	9985.4	9878.4	9706.1	9382.5	9022.3
20°	10580.4	10590.9	10478.7	10262.0	10108.1	10066.3	10063.7	10016.7	9888.8	9601.7	9252.0
22.5°	10337.7	10345.6	10264.6	10108.1	10055.9	10121.1	10139.4	10121.1	10029.8	9760.9	9432.1
25°	10277.7	10272.5	10189.0	10029.8	10074.1	10212.5	10235.9	10243.8	10181.1	9946.2	9661.8
27.5°	10567.4	10549.1	10389.9	10134.2	10162.9	10329.9	10361.2	10436.9	10397.8	10191.6	9922.8
30°	11405.2	11373.8	11047.6	10530.9	10389.9	10476.0	10515.2	10635.3	10643.1	10470.8	10269.9
32.5°	12819.7	12780.6	12196.0	11272.1	10773.6	10624.8	10661.3	10841.4	10938.0	10804.9	10588.3
35°	14607.5	14563.1	13795.8	12532.6	11415.6	10909.3	10935.4	11078.9	11272.1	11084.1	10797.1
37.5°	16470.9	16363.9	15625.3	14015.0	12436.1	11517.4	11517.4	11535.7	11627.0	11235.5	11042.4
40°	18323.9	18216.9	17548.8	15758.4	13756.7	12475.2	12415.2	12010.7	11937.6	11600.9	11535.7
42.5°	20046.5	20015.2	19621.1	17728.9	15306.9	13417.4	13333.9	12647.5	12663.1	12454.3	12456.9
45°	21878.6	21878.6	21557.6	19717.6	17113.0	14931.1	14847.6	13837.6	13994.2	13897.6	14129.9
47.5°	23374.1	23421.0	23376.7	21789.9	19213.9	16854.6	16703.2	15487.0	15925.5	16256.9	16932.9
50°	24900.8	24973.9	24981.7	24063.1	21753.3	19140.8	18968.6	17676.7	18655.4	19605.4	20933.8
52.5°	27116.6	27281.0	26626.0	26331.1	24864.3	21855.1	21685.5	20492.8	22126.5	23460.2	25749.1
55°	29170.6	29027.1	28559.9	28742.6	28194.5	24945.2	24817.3	23770.8	25994.4	27727.3	30700.0
57.5°	30282.4	30272.0	30741.7	31524.7	31785.7	28755.6	28648.6	27630.8	30355.5	31657.8	35348.2
60°	31587.3	31605.6	32769.6	34546.9	35622.2	33500.4	33453.4	32680.9	34591.3	35327.3	38994.2
62.5°	31770.0	32098.9	34103.3	37162.0	39213.4	39043.8	39148.2	37229.9	38380.9	38255.6	41716.3
65°	29669.1	30102.3	33730.1	37952.8	42783.7	45106.5	45203.1	41805.0	41369.2	40758.5	42689.8
67.5°	25362.8	26004.8	29945.7	36232.9	43960.8	49587.7	49723.4	45351.8	43848.6	41606.7	40346.1
70°	18457.1	19169.5	23136.6	30945.3	41862.4	51020.5	51174.5	46920.4	43942.5	39192.5	34442.6
72.5°	11149.4	11707.9	14978.1	22781.6	35332.5	48410.6	48684.7	44931.6	40119.0	33197.6	25433.3
75°	4896.1	5261.5	7242.4	13127.7	25294.9	40053.8	40395.7	38459.2	32597.4	24125.7	15032.9
77.5°	2085.3	2189.7	2970.0	5702.6	14299.5	27369.8	27839.6	28100.6	22116.1	13127.7	6352.4
80°	1299.7	1341.5	1680.8	2581.2	6691.7	15372.2	15878.5	16533.6	10982.4	4825.7	2218.4
82.5°	790.8	837.8	1117.0	1560.7	3484.2	6968.4	7211.1	7673.0	4261.9	2085.3	1148.3
85°	475.0	508.9	683.8	986.5	1983.5	2740.4	2737.8	3027.5	2007.0	1341.5	605.5
87.5°	227.1	253.2	365.4	511.5	999.6	1028.3	963.0	1090.9	1218.8	879.5	305.4
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°	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6	7769.6
2.5°	7764.4	7753.9	7720.0	7693.9	7688.7	7673.0	7660.0	7667.8	7678.3	7680.9	7680.9
5°	7761.8	7733.1	7688.7	7670.4	7693.9	7725.2	7764.4	7816.6	7847.9	7871.4	7887.0
7.5°	7887.0	7832.2	7782.7	7772.2	7819.2	7902.7	7991.4	8101.1	8176.7	8228.9	8239.4
10°	8095.8	8028.0	7978.4	7988.8	8072.4	8192.4	8317.7	8458.6	8573.4	8643.9	8649.1
12.5°	8335.9	8270.7	8223.7	8268.1	8406.4	8552.6	8683.1	8805.7	8910.1	8980.6	8980.6
15°	8612.6	8565.6	8510.8	8612.6	8800.5	8931.0	8985.8	9045.8	9103.3	9155.5	9145.0
17.5°	8878.8	8834.4	8805.7	8925.8	9121.5	9181.5	9145.0	9100.6	9100.6	9129.4	9134.6
20°	9108.5	9069.3	9087.6	9205.0	9306.8	9244.2	9108.5	8967.5	8910.1	8925.8	8941.4
22.5°	9309.4	9291.2	9346.0	9400.8	9327.7	9108.5	8857.9	8667.4	8596.9	8591.7	8596.9
25°	9544.3	9541.7	9609.6	9510.4	9186.8	8782.2	8445.6	8260.3	8221.1	8252.4	8304.6
27.5°	9836.6	9865.3	9899.3	9536.5	8899.7	8289.0	7947.1	7819.2	7858.3	7934.0	7983.6
30°	10209.8	10288.1	10215.1	9471.2	8487.3	7725.2	7399.0	7362.5	7469.5	7576.5	7628.7
32.5°	10572.6	10695.3	10517.8	9301.6	7954.9	7127.6	6874.4	6864.0	6994.5	7098.9	7171.9
35°	10864.9	11107.6	10744.9	8964.9	7339.0	6576.9	6391.6	6321.1	6368.1	6490.8	6574.3
37.5°	11246.0	11650.5	10901.5	8450.8	6670.8	6122.8	5906.2	5744.3	5702.6	5752.2	5793.9
40°	11942.8	12477.8	10974.5	7733.1	6018.4	5668.7	5449.4	5211.9	5047.5	4927.4	4930.1
42.5°	13080.7	13555.7	10927.6	6861.4	5415.5	5225.0	4977.0	4703.0	4436.8	4165.4	4144.5
45°	14928.5	15158.2	10786.6	5937.5	4885.7	4760.4	4528.1	4254.1	3899.2	3591.2	3562.5
47.5°	17885.5	17376.6	10567.4	5131.0	4418.5	4366.3	4152.3	3836.5	3460.7	3212.8	3191.9
50°	21917.8	20578.9	10460.4	4489.0	4006.2	4021.8	3847.0	3512.9	3158.0	2975.3	2954.4
52.5°	26740.8	24308.4	10666.6	3993.1	3674.7	3729.5	3599.0	3285.8	2988.3	2844.8	2823.9
55°	31743.9	28171.0	10888.4	3632.9	3361.5	3468.5	3424.2	3165.8	2897.0	2763.9	2745.6
57.5°	36026.7	31054.9	10444.7	3340.6	3082.3	3249.3	3288.4	3090.1	2850.0	2729.9	2709.1
60°	38722.8	32216.3	9280.7	3066.6	2860.4	3074.4	3210.1	3069.2	2868.3	2857.8	2842.2
62.5°	40001.6	32114.5	7534.7	2850.0	2722.1	2998.7	3267.6	3186.7	3077.0	3171.0	3178.8
65°	39427.4	30579.9	5611.2	2706.4	2622.9	3027.5	3439.8	3408.5	3137.1	3231.0	3244.1
67.5°	35648.3	26918.3	4154.9	2581.2	2513.3	3108.4	3753.0	3481.6	3019.6	3087.5	3045.7
70°	28813.0	21341.0	3204.9	2440.2	2401.1	3097.9	3893.9	3437.2	2891.7	2907.4	2795.2
72.5°	19869.0	14552.7	2607.3	2309.7	2239.3	2823.9	3794.8	3327.6	2784.7	2664.7	2515.9
75°	10804.9	7811.4	2215.8	2174.0	1954.8	2479.4	3612.1	3249.3	2688.2	2529.0	2445.5
77.5°	4251.5	3241.5	1923.5	1988.7	1709.5	2189.7	3408.5	3100.5	2555.1	2346.3	2304.5
80°	1735.6	1654.7	1594.6	1719.9	1469.4	1915.7	3163.2	2925.7	2395.9	2176.6	2093.1
82.5°	983.9	1028.3	1239.7	1357.1	1192.7	1764.3	3045.7	2784.7	2205.3	1949.6	1850.4
85°	503.7	602.9	863.9	973.5	876.9	1500.7	2805.6	2437.6	1769.5	1492.8	1500.7
87.5°	242.7	336.7	545.5	610.7	569.0	1085.7	2095.7	1766.9	1378.0	1090.9	1057.0
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)