

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: P459546

Luminaire Tested: **GLAN-SA9D-735-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459546  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65702 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

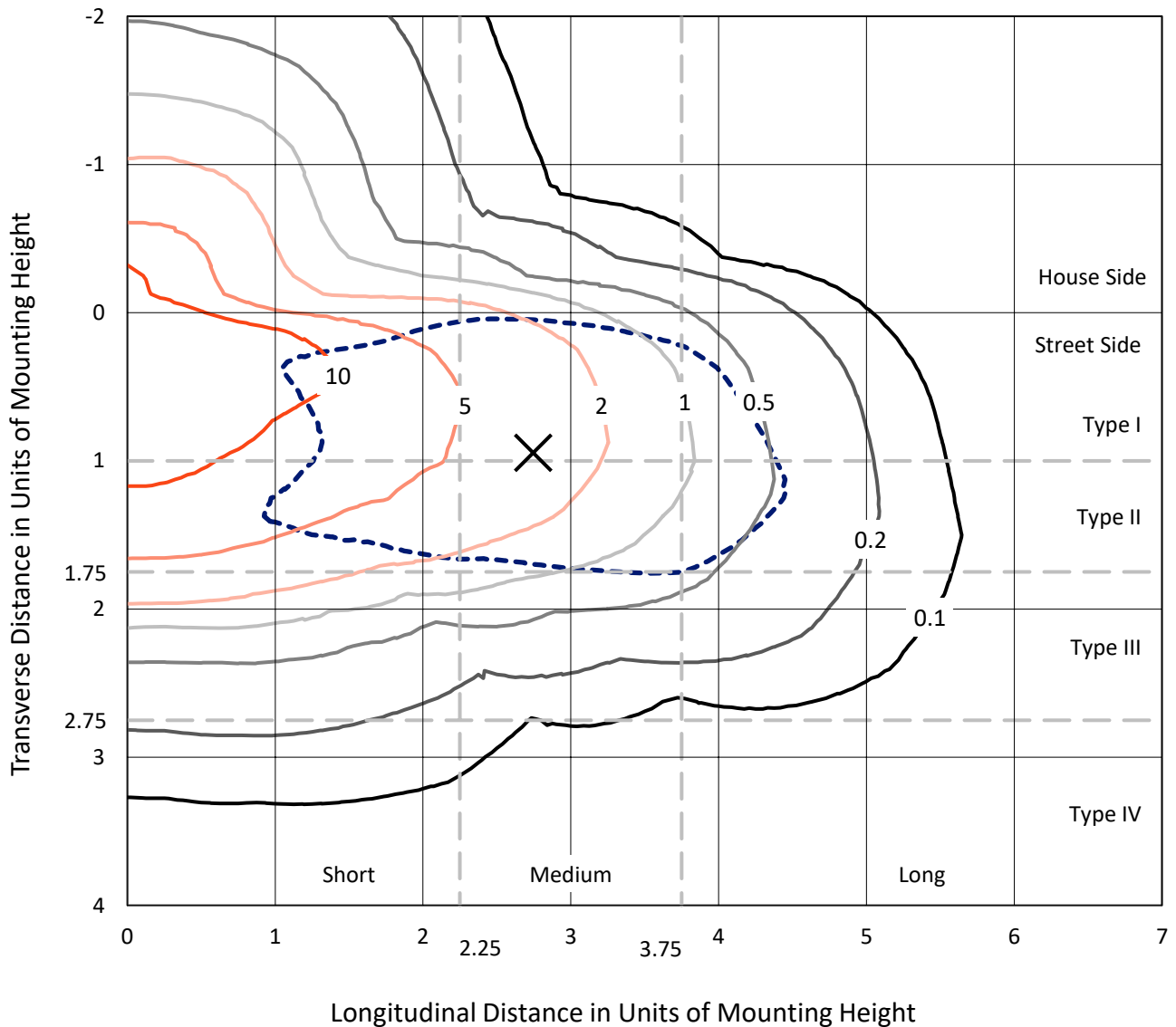
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

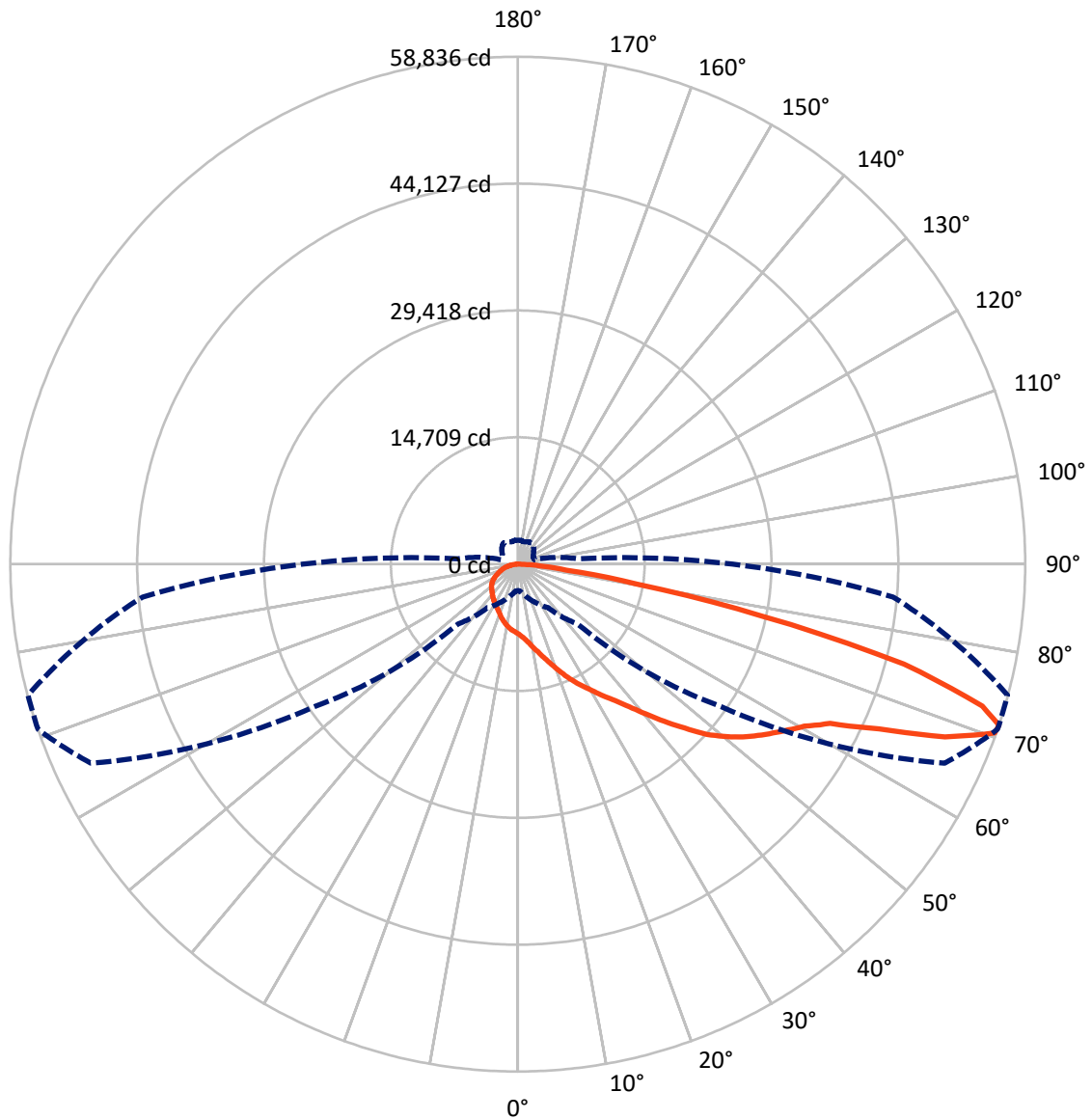
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11816.3	0.0	11816.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	53885.7	0.0	53885.7
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	65702.0	0.0	65702.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.6	1.2
10°-20°	2630.5	4.0
20°-30°	4597.0	7.0
30°-40°	6837.4	10.4
40°-50°	10074.0	15.3
50°-60°	14103.8	21.5
60°-70°	15774.6	24.0
70°-80°	9635.7	14.7
80°-90°	1239.5	1.9
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°	65702.0	100.0
0°-180°	65702.0	100.0

**Coefficient of Utilization**



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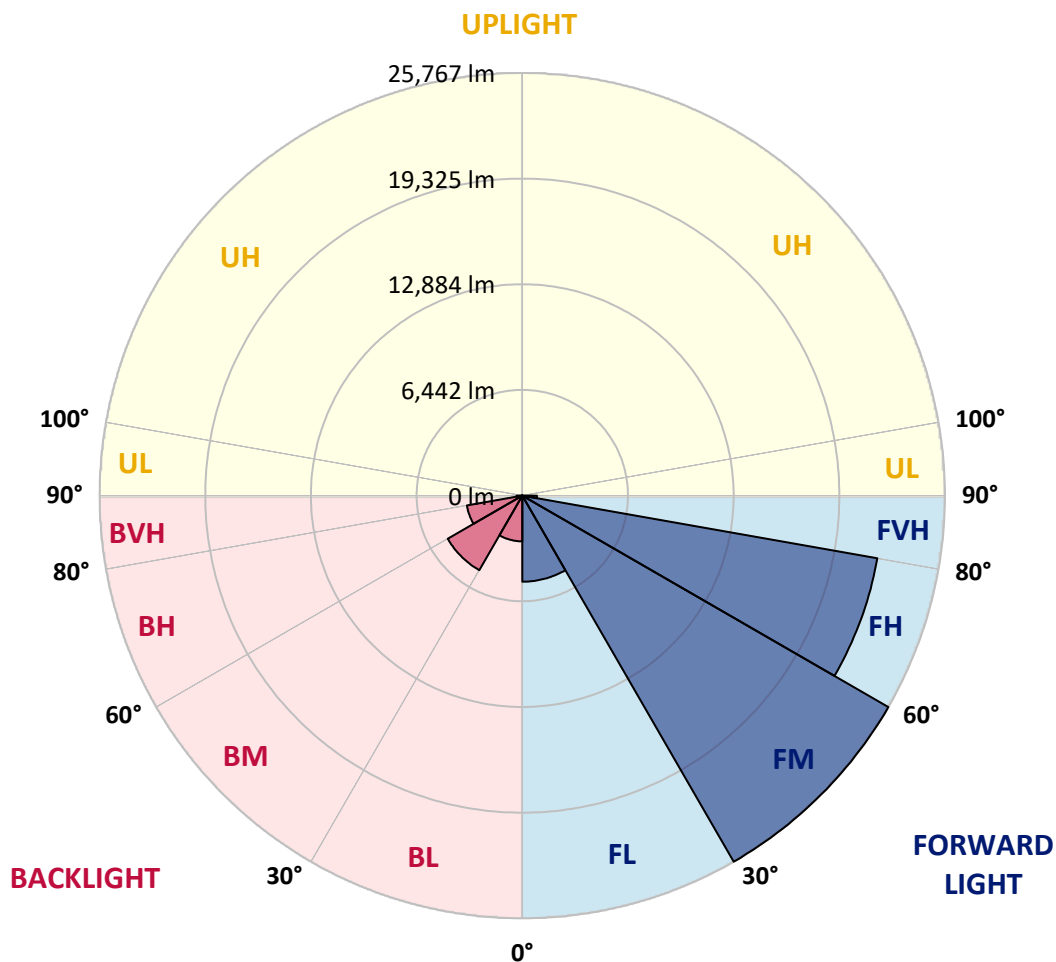
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5249.6	8.0			
FM	(30°-60°)	25767.0	39.2			
FH	(60°-80°)	21977.1	33.4			G5
FVH	(80°-90°)	891.9	1.4			G5
BL	(0°-30°)	2787.4	4.2	B4/5000		
BM	(30°-60°)	5248.1	8.0	B4/8500		
BH	(60°-80°)	3433.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	347.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6
2.5°	8952.0	8908.6	8912.2	8850.8	8771.4	8684.7	8562.0	8453.6	8367.0	8316.4	8168.3
5°	9919.7	9876.4	9822.2	9688.6	9630.8	9417.8	9147.0	8901.4	8713.6	8608.9	8312.8
7.5°	10703.4	10692.5	10678.1	10602.2	10454.2	10158.1	9927.0	9500.8	9222.8	9024.2	8518.6
10°	11187.2	11205.3	11216.1	11230.6	11169.2	11013.9	10696.1	10158.1	9804.2	9551.4	8785.8
12.5°	11432.8	11450.9	11512.2	11645.9	11728.9	11710.9	11450.9	10923.6	10436.1	10103.9	9071.1
15°	11584.5	11613.4	11721.7	11898.6	12176.7	12353.6	12227.2	11739.7	11205.3	10811.7	9410.6
17.5°	11750.6	11783.1	11902.2	12155.0	12519.7	12902.5	13039.7	12620.9	12039.5	11570.0	9789.7
20°	11844.5	11887.8	12057.5	12389.7	12815.9	13372.0	13827.0	13606.7	12971.1	12451.1	10226.7
22.5°	11996.1	12032.2	12176.7	12530.6	13039.7	13736.7	14614.2	14567.2	14007.5	13335.9	10707.0
25°	12407.8	12465.6	12537.8	12750.9	13242.0	14108.6	15267.8	15592.8	15011.4	14260.3	11147.5
27.5°	13184.2	13231.1	13227.5	13256.4	13534.5	14430.0	15834.7	16607.5	16008.1	15195.6	11573.6
30°	14068.9	14087.0	14101.4	14036.4	14097.8	14758.6	16354.7	17611.4	17012.0	16156.1	11945.6
32.5°	15145.0	15181.1	15058.4	14892.2	14841.7	15246.1	16784.5	18615.3	18200.0	17131.1	12313.9
35°	16416.1	16510.0	16260.9	15968.4	15762.5	15946.7	17362.3	19640.9	19417.0	18377.0	12801.4
37.5°	17867.8	17983.4	17752.3	17178.1	16885.6	16936.1	18117.0	20908.4	20955.3	19796.1	13527.2
40°	19055.9	19207.5	19214.8	18402.3	17958.1	18015.9	19073.9	22273.4	22811.4	21551.1	14383.1
42.5°	19839.5	19987.5	20142.8	19666.1	19200.3	19528.9	20189.8	23753.9	24898.7	23681.7	15578.4
45°	20698.9	20832.5	20919.2	20702.5	20442.5	21294.8	21536.7	25328.4	27123.1	26061.4	16885.6
47.5°	21695.6	21843.6	21926.7	21720.9	21623.4	22843.9	22988.4	26798.1	29499.2	28372.5	18330.0
50°	23024.5	23136.4	23093.1	22963.1	22941.4	24032.0	24382.3	28173.9	31460.1	30860.6	19828.6
52.5°	24678.4	24812.0	24858.9	24674.8	24591.7	24880.6	25505.3	29427.0	33243.9	32998.4	21428.4
55°	25678.7	25891.7	26606.7	26895.6	27094.2	25978.4	26715.0	30810.1	34843.7	35251.7	23147.3
57.5°	24396.7	24671.2	26270.9	27715.3	29582.3	28722.8	28430.3	32254.5	36443.4	37436.5	25205.6
60°	21269.5	21330.9	23392.8	26054.2	29809.8	32250.9	32008.9	34551.2	38176.7	39639.2	27917.5
62.5°	14755.0	14885.0	17322.5	21569.2	27000.3	33522.0	38097.3	38516.2	40661.2	42936.2	31893.4
65°	7608.6	7438.9	9659.7	13556.1	20355.9	30503.1	43030.1	45807.0	46049.0	48092.9	37490.6
67.5°	4683.6	4759.5	5799.5	7915.6	12035.9	22168.6	42513.7	54715.6	53440.9	54423.1	42687.0
70°	3517.2	3611.1	4326.1	5416.7	7337.8	12675.0	34190.1	56875.1	58655.4	58402.6	44268.7
71°	3058.6	3156.1	3900.0	4929.2	6164.2	9782.5	28805.9	54614.5	58835.9	58792.6	43672.9
72.5°	2607.2	2668.6	3250.0	4174.5	5196.4	6857.5	21641.4	48981.2	56326.2	57767.0	41545.9
75°	2047.5	2094.4	2354.4	3185.0	4091.4	4210.6	11613.4	36721.4	46262.0	49006.5	34587.3
77.5°	1668.3	1700.8	1834.4	2365.3	3156.1	2982.8	6092.0	23902.0	28982.8	31745.3	20373.9
80°	1325.3	1361.4	1440.8	1603.3	2365.3	2126.9	2906.9	12111.7	14000.3	13971.4	8132.2
82.5°	1029.2	1040.0	1133.9	1177.2	1617.8	1509.4	1574.4	5127.8	5680.3	5868.1	2935.8
85°	650.0	682.5	1003.9	902.8	967.8	884.7	776.4	2036.7	2509.7	2473.6	1173.6
87.5°	198.6	209.4	339.4	382.8	429.7	386.4	285.3	599.4	733.1	794.4	292.5
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°	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6	8063.6
2.5°	8110.6	8070.8	7930.0	7814.5	7706.1	7587.0	7485.8	7457.0	7431.7	7420.8	7417.2
5°	8186.4	8067.2	7789.2	7561.7	7381.1	7215.0	7110.3	7063.3	7016.4	7016.4	7030.8
7.5°	8294.7	8078.1	7648.3	7308.9	7081.4	6926.1	6850.3	6843.1	6853.9	6864.7	6868.3
10°	8413.9	8070.8	7442.5	7020.0	6817.8	6745.6	6749.2	6810.6	6868.3	6911.7	6918.9
12.5°	8529.5	8027.5	7200.6	6749.2	6619.2	6633.6	6734.7	6872.0	6983.9	7045.3	7048.9
15°	8659.5	7958.9	6908.1	6492.8	6449.5	6561.4	6749.2	6958.6	7128.3	7229.5	7240.3
17.5°	8767.8	7843.3	6601.1	6243.6	6297.8	6503.6	6763.6	7034.5	7240.3	7366.7	7388.3
20°	8890.6	7695.3	6283.3	6005.3	6160.6	6438.6	6734.7	7027.2	7240.3	7363.1	7392.0
22.5°	8988.1	7485.8	5980.0	5810.3	6037.8	6359.2	6637.2	6872.0	7045.3	7110.3	7153.6
25°	9027.8	7222.2	5694.7	5651.4	5940.3	6229.2	6417.0	6550.6	6604.7	6597.5	6615.6
27.5°	9006.1	6918.9	5449.2	5525.0	5817.5	6027.0	6120.8	6110.0	6012.5	5922.2	5965.6
30°	8915.8	6557.8	5243.3	5395.0	5658.6	5774.2	5759.7	5618.9	5434.7	5265.0	5275.8
32.5°	8753.3	6167.8	5052.0	5247.0	5434.7	5485.3	5387.8	5203.6	4940.0	4719.7	4687.2
35°	8616.1	5795.8	4882.2	5077.2	5210.8	5185.6	5091.7	4853.3	4615.0	4420.0	4387.5
37.5°	8594.5	5478.1	4719.7	4885.8	4961.7	4925.6	4810.0	4607.8	4521.1	4373.1	4355.0
40°	8710.0	5254.2	4553.6	4683.6	4719.7	4690.8	4564.5	4448.9	4528.3	4492.2	4492.2
42.5°	9024.2	5135.0	4405.6	4481.4	4510.3	4532.0	4441.7	4344.2	4441.7	4275.6	4221.4
45°	9522.5	5138.6	4272.0	4282.8	4369.5	4445.3	4383.9	4239.5	4188.9	3856.7	3791.7
47.5°	10255.6	5261.4	4163.6	4095.0	4250.3	4376.7	4290.0	4080.6	3856.7	3636.4	3596.7
50°	11111.4	5481.7	4066.1	3900.0	4091.4	4290.0	4225.0	3979.5	3748.3	3614.7	3589.5
52.5°	12061.1	5759.7	3947.0	3683.3	3896.4	4250.3	4239.5	3965.0	3647.2	3557.0	3535.3
55°	13234.7	6034.2	3798.9	3430.6	3723.1	4217.8	4199.7	3845.8	3625.6	3560.6	3553.3
57.5°	14599.7	6431.4	3585.8	3174.2	3524.5	4084.2	4044.5	3773.6	3553.3	3506.4	3502.8
60°	16798.9	7048.9	3282.5	2939.4	3322.2	3849.5	3900.0	3650.8	3437.8	3427.0	3423.3
62.5°	19691.4	7915.6	2968.3	2697.5	3087.5	3546.1	3690.6	3484.7	3315.0	3369.2	3376.4
65°	23685.3	8645.0	2643.3	2491.7	2827.5	3253.6	3492.0	3329.4	3177.8	3282.5	3282.5
67.5°	26288.9	8659.5	2347.2	2278.6	2563.9	3008.1	3282.5	3145.3	3000.8	3177.8	3185.0
70°	25747.3	7587.0	2101.7	2054.7	2307.5	2744.4	3051.4	2943.1	2776.9	2935.8	2878.1
71°	24873.4	6991.1	2004.2	1968.1	2206.4	2618.1	2943.1	2852.8	2686.7	2791.4	2758.9
72.5°	23479.5	6070.3	1845.3	1852.5	2054.7	2459.2	2791.4	2697.5	2531.4	2589.2	2578.3
75°	19846.7	5301.1	1578.1	1610.6	1765.8	2188.3	2488.1	2415.8	2246.1	2246.1	2235.3
77.5°	12407.8	3705.0	1310.8	1328.9	1498.6	1874.2	2137.8	2076.4	1913.9	1859.7	1845.3
80°	4629.5	1913.9	1025.6	1047.2	1151.9	1476.9	1769.4	1711.7	1545.6	1484.2	1426.4
82.5°	1751.4	960.6	754.7	736.7	848.6	1126.7	1386.7	1318.1	1188.1	1040.0	996.7
85°	660.8	476.7	462.2	447.8	498.3	668.1	859.4	845.0	707.8	603.1	592.2
87.5°	173.3	155.3	180.6	133.6	140.8	126.4	130.0	54.2	25.3	10.8	7.2
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)