

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: P383252

Luminaire Tested: **GAN-SA5D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29319.5 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

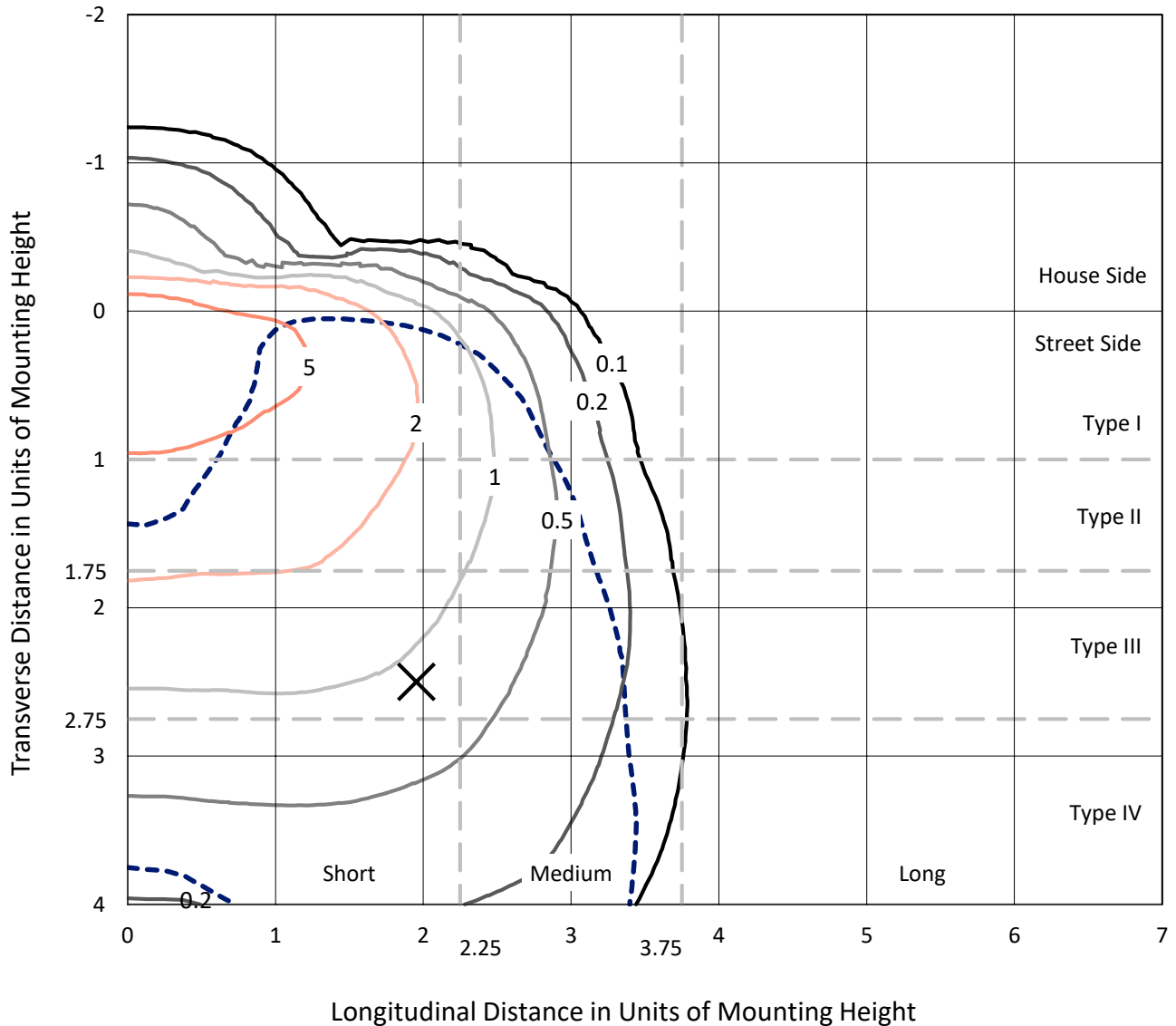
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

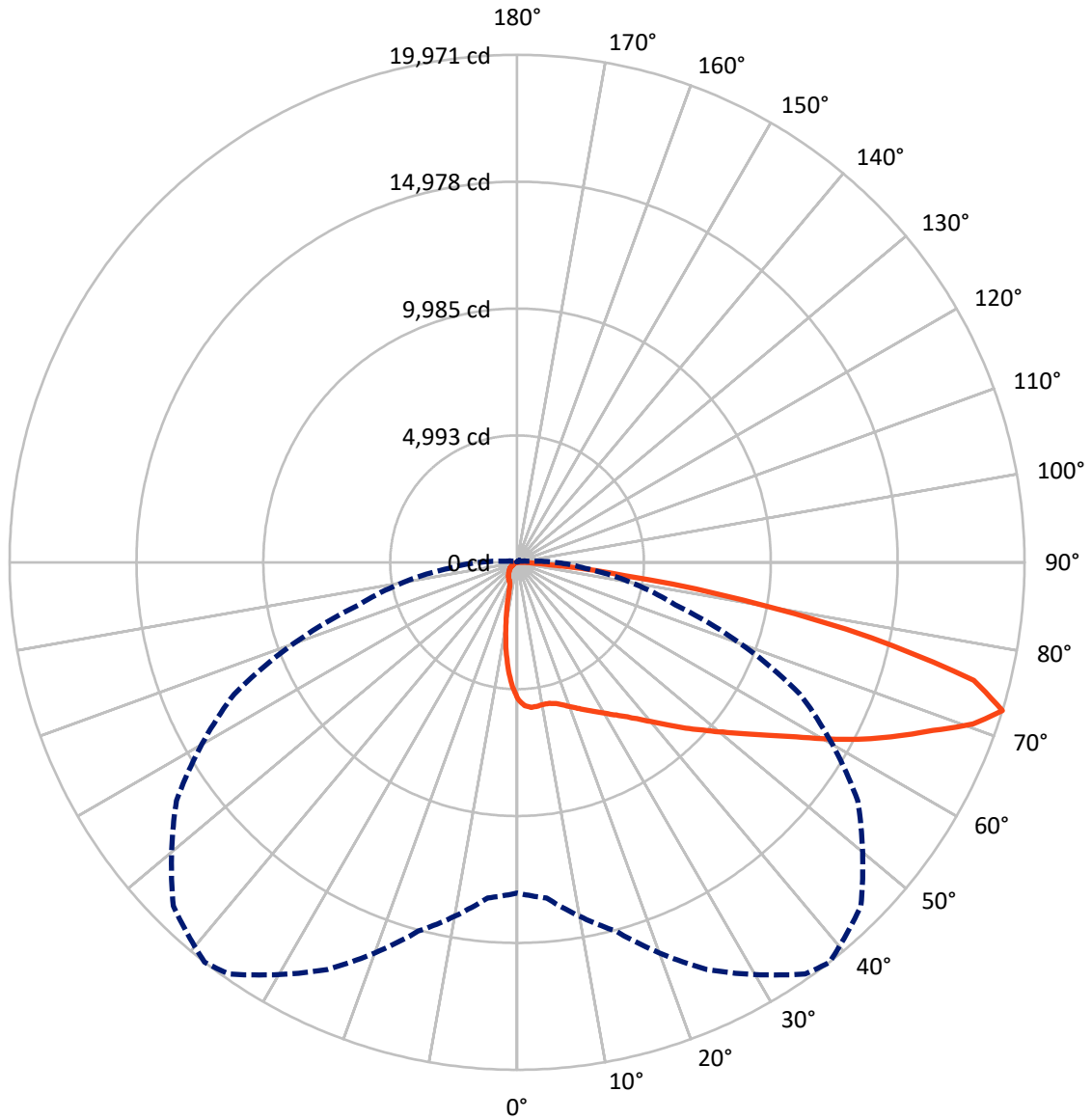
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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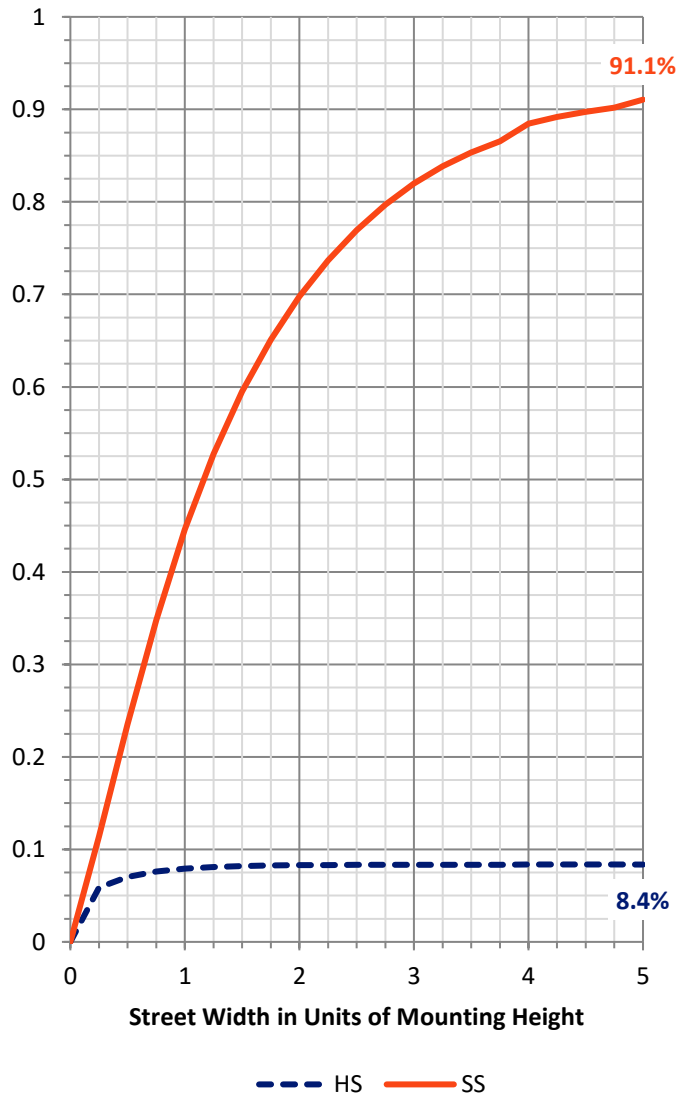
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2467.3	0.0	2467.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26852.2	0.0	26852.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	29319.5	0.0	29319.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	1.6
10°-20°	1123.5	3.8
20°-30°	1787.0	6.1
30°-40°	2686.5	9.2
40°-50°	4098.5	14.0
50°-60°	5792.5	19.8
60°-70°	7265.7	24.8
70°-80°	5432.7	18.5
80°-90°	673.6	2.3
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°	29319.5	100.0
0°-180°	29319.5	100.0

Coefficient of Utilization

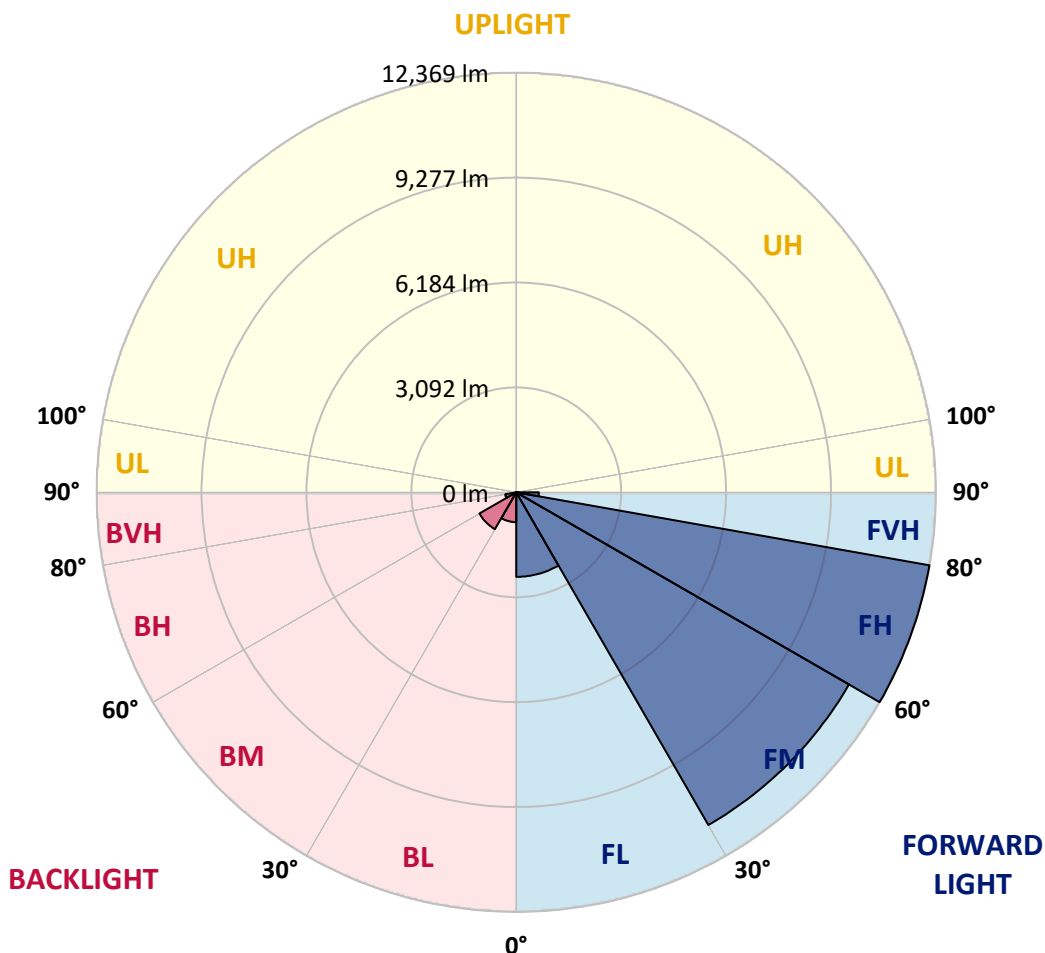


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.5	8.5			
FM (30°-60°)	11324.5	38.6			
FH (60°-80°)	12368.9	42.2			G5
FVH (80°-90°)	667.4	2.3			G4/750
BL (0°-30°)	878.5	3.0	B2/1000		
BM (30°-60°)	1253.0	4.3	B2/2500		
BH (60°-80°)	329.6	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8
2.5°	5723.0	5724.2	5710.8	5688.9	5660.8	5646.3	5621.9	5583.0	5541.5	5467.3	5386.9
5°	5839.9	5839.9	5822.8	5793.6	5748.6	5735.2	5688.9	5626.7	5541.5	5421.0	5285.8
7.5°	5827.7	5830.1	5807.0	5776.5	5731.5	5719.3	5663.3	5593.9	5487.9	5341.9	5169.0
10°	5764.3	5770.5	5752.2	5737.6	5696.1	5682.8	5630.5	5561.1	5455.0	5299.2	5100.8
12.5°	5699.9	5705.9	5712.0	5725.4	5699.9	5694.9	5653.6	5595.2	5494.1	5332.1	5108.0
15°	5658.4	5670.6	5714.5	5766.8	5772.9	5768.0	5741.2	5686.4	5584.2	5416.1	5160.4
17.5°	5658.4	5677.9	5769.3	5869.1	5904.4	5908.1	5885.0	5808.2	5686.4	5506.2	5209.1
20°	5705.9	5732.7	5875.2	6016.4	6074.9	6074.9	6029.8	5922.7	5780.2	5587.8	5242.0
22.5°	5827.7	5863.0	6042.0	6205.1	6267.3	6253.9	6193.0	6037.1	5877.6	5680.4	5283.4
25°	6067.5	6094.4	6280.7	6445.0	6482.8	6452.4	6375.6	6176.0	6001.8	5805.8	5358.9
27.5°	6376.8	6380.5	6572.9	6711.7	6688.6	6667.8	6571.7	6350.1	6180.8	5984.7	5489.1
30°	6716.6	6716.6	6885.8	6991.7	6921.1	6904.1	6807.9	6560.7	6409.7	6228.3	5674.2
32.5°	7045.3	7059.9	7197.5	7264.5	7185.4	7168.4	7074.5	6827.4	6714.1	6599.6	5962.8
35°	7363.1	7374.1	7504.4	7540.9	7465.4	7470.3	7403.3	7193.9	7151.3	7136.7	6397.6
37.5°	7671.2	7673.6	7806.4	7829.5	7791.7	7833.2	7839.3	7654.2	7733.3	7851.5	7010.0
40°	7952.5	7955.0	8086.4	8146.1	8210.7	8264.2	8311.7	8213.1	8474.8	8748.8	7739.4
42.5°	8177.8	8203.3	8370.1	8483.4	8653.9	8756.2	8885.2	8880.4	9357.7	9769.2	8621.0
45°	8376.2	8420.1	8652.7	8851.1	9143.3	9306.5	9508.7	9666.9	10351.3	10905.3	9513.5
47.5°	8638.1	8679.4	8944.9	9270.0	9659.7	9873.9	10208.8	10551.0	11443.5	12020.7	10385.4
50°	9006.9	8988.7	9250.5	9716.9	10217.3	10498.6	10976.0	11488.6	12527.2	12992.4	10898.0
52.5°	9400.2	9393.0	9586.6	10202.7	10874.9	11203.6	11834.4	12457.8	13563.4	13662.1	11133.0
55°	9887.4	9835.0	9998.1	10756.8	11655.3	12008.5	12751.2	13417.3	14389.0	14039.5	11251.1
57.5°	10397.6	10311.1	10467.0	11374.1	12535.7	12953.4	13766.8	14352.4	14938.2	14297.7	11249.9
60°	10924.8	10822.5	11007.5	12146.1	13629.2	14112.6	14867.5	14984.4	15450.8	14428.0	11167.1
62.5°	11365.5	11304.7	11579.9	12971.6	14850.5	15325.4	15699.2	15559.2	15883.1	14529.1	10973.4
65°	11832.0	11835.6	12280.0	13934.8	16148.5	16468.7	16500.4	16304.4	16244.7	14508.3	10318.4
67.5°	12462.7	12521.1	13262.6	15242.5	17411.2	17658.4	17656.0	17111.7	16508.9	13685.2	8865.7
70°	13130.0	13267.6	14395.1	16739.1	18789.6	19040.5	18911.3	17625.5	15544.5	11066.0	6274.5
72.5°	13017.9	13256.6	15024.7	17682.7	19779.6	19970.7	19131.8	16362.8	12286.1	6431.7	2671.5
75°	10043.2	10319.6	13776.6	16747.5	18740.9	18569.2	16438.3	12733.0	6714.1	1794.8	601.5
77.5°	5305.3	5452.6	9100.8	12758.6	14613.0	14253.8	11579.9	7063.6	2046.9	444.4	270.3
80°	2778.7	2812.8	3965.9	7239.0	9019.2	9021.6	6862.7	3102.6	843.8	227.7	181.5
82.5°	1488.0	1517.2	2095.6	3344.9	4725.7	4283.7	2627.7	1707.2	490.7	129.1	174.1
85°	358.0	364.0	1188.5	1528.1	1858.2	1327.3	780.5	1433.2	132.7	75.5	141.2
87.5°	137.6	140.0	440.8	661.2	473.7	306.9	365.3	534.5	17.0	29.3	21.9
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°	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8	5391.8
2.5°	5338.2	5306.6	5228.6	5129.9	5042.3	4978.9	4884.0	4821.9	4780.5	4779.3	4763.5
5°	5203.1	5138.5	4970.5	4770.7	4589.4	4426.2	4233.8	4081.6	3968.3	3950.0	3911.1
7.5°	5058.1	4952.2	4694.1	4382.4	4077.9	3768.7	3409.5	3186.6	2995.4	2904.1	2894.3
10°	4969.2	4820.7	4454.2	4003.6	3526.3	3023.4	2553.4	2228.3	1993.3	1926.3	1876.4
12.5°	4951.0	4754.9	4269.1	3648.1	2966.2	2301.4	1781.4	1435.6	1248.1	1188.5	1172.6
15°	4969.2	4724.5	4113.2	3296.2	2398.7	1632.9	1195.7	994.8	924.2	907.1	905.9
17.5°	4980.2	4687.9	3936.6	2905.3	1848.4	1166.5	915.7	857.2	846.3	845.0	847.5
20°	4978.9	4631.9	3726.0	2469.4	1374.7	916.9	828.0	815.8	813.4	814.6	813.4
22.5°	4970.5	4566.2	3494.7	2020.1	1038.7	819.5	790.2	783.0	781.8	781.8	781.8
25°	4986.3	4513.8	3240.2	1590.2	856.0	774.4	756.1	750.1	748.9	748.9	746.4
27.5°	5043.5	4484.7	2961.3	1223.8	773.2	734.2	719.6	718.4	714.8	713.6	716.0
30°	5136.1	4484.7	2655.7	952.2	723.3	692.9	681.9	679.5	678.3	677.0	678.3
32.5°	5299.2	4518.8	2322.1	791.4	675.8	646.6	639.2	643.0	639.2	639.2	639.2
35°	5593.9	4621.0	1972.6	690.4	625.9	601.5	594.2	599.1	596.7	596.7	595.4
37.5°	6023.8	4811.0	1620.7	629.5	582.0	556.5	546.7	554.0	551.6	551.6	550.4
40°	6547.3	5087.4	1285.8	583.2	539.5	512.6	504.2	507.8	501.6	501.6	504.2
42.5°	7193.9	5438.0	993.6	538.2	496.8	471.3	466.3	462.7	451.7	445.7	446.9
45°	7912.3	5803.4	774.4	494.4	456.6	436.0	428.6	418.9	400.6	388.5	389.7
47.5°	8554.0	6084.6	629.5	451.7	420.1	404.3	393.3	375.0	348.2	333.7	334.9
50°	8891.3	6127.3	535.7	409.1	386.0	370.2	354.4	326.3	294.6	278.8	277.6
52.5°	8977.8	5927.5	466.3	370.2	351.9	333.7	312.9	275.2	239.9	222.8	220.4
55°	9009.4	5623.1	404.3	333.7	315.3	294.6	267.9	225.2	192.4	175.3	174.1
57.5°	8904.7	5169.0	355.6	300.8	278.8	253.3	220.4	180.3	148.6	135.2	135.2
60°	8672.1	4554.1	317.8	265.5	241.1	211.8	177.7	140.0	110.8	99.9	99.9
62.5°	8208.2	3757.7	282.5	228.9	205.8	175.3	143.6	105.9	78.0	71.8	73.0
65°	7332.7	2850.5	247.1	196.0	175.3	144.9	112.1	75.5	52.4	52.4	54.8
67.5°	5979.9	1979.9	210.6	166.8	151.0	118.1	85.2	52.4	36.5	41.4	46.3
70°	3958.6	1110.5	180.3	137.6	129.1	93.7	63.3	35.3	29.3	38.9	47.5
72.5°	1494.0	432.2	151.0	110.8	112.1	71.8	45.1	26.8	26.8	42.6	56.0
75°	416.4	211.8	108.3	81.6	87.7	52.4	32.9	23.1	25.5	48.7	65.8
77.5°	244.7	155.8	70.6	47.5	59.6	36.5	21.9	18.3	21.9	41.4	63.3
80°	197.3	82.8	41.4	24.3	32.9	20.7	14.6	11.0	6.1	15.8	32.9
82.5°	197.3	49.9	19.5	17.0	17.0	11.0	7.3	4.8	1.2	0.0	8.5
85°	132.7	20.7	12.2	11.0	8.5	3.6	2.4	1.2	0.0	0.0	0.0
87.5°	21.9	8.5	4.8	2.4	1.2	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)