

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: P323809

Luminaire Tested: **GAN-SA5C-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323809
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-SA5C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 26128 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

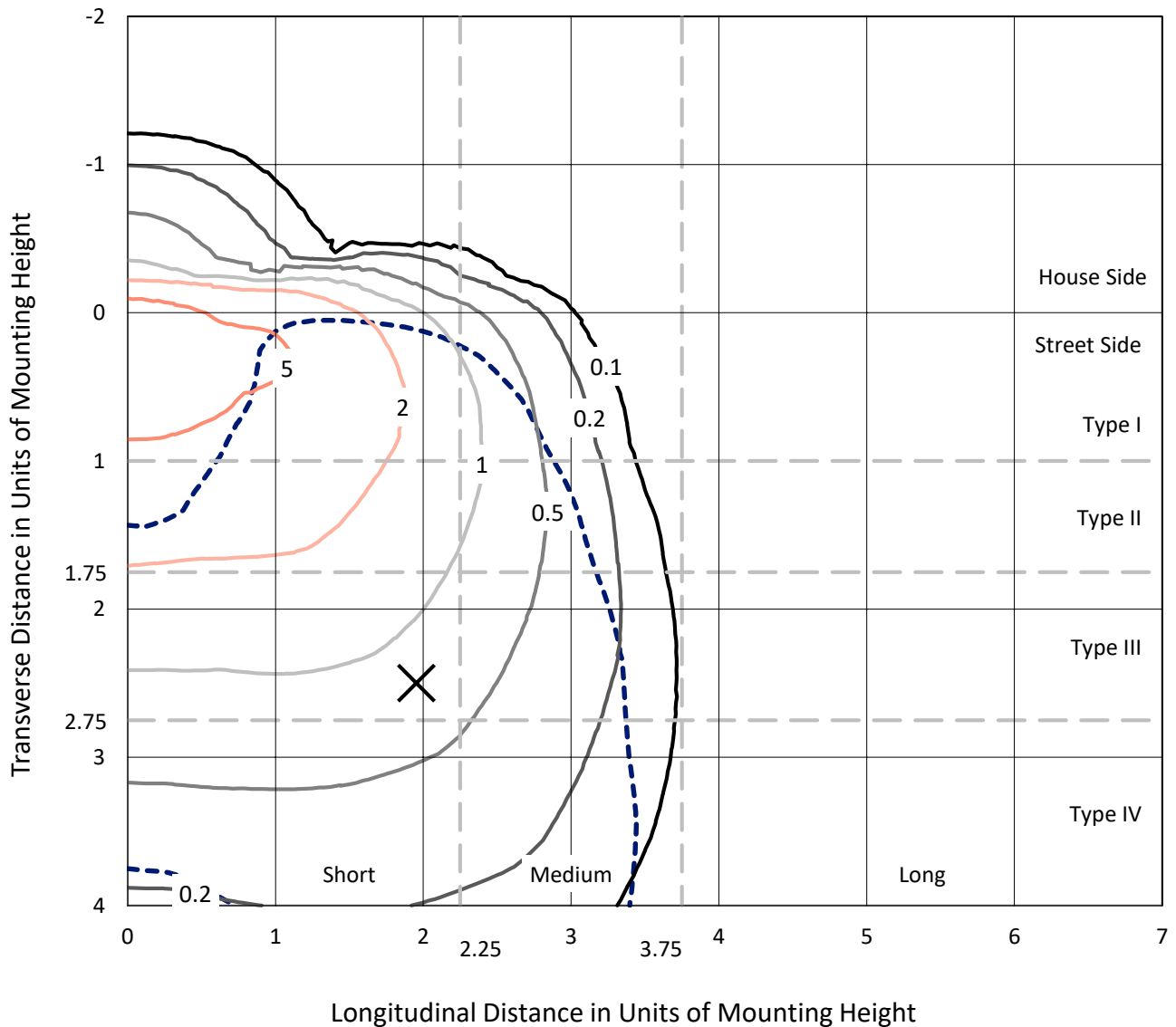
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

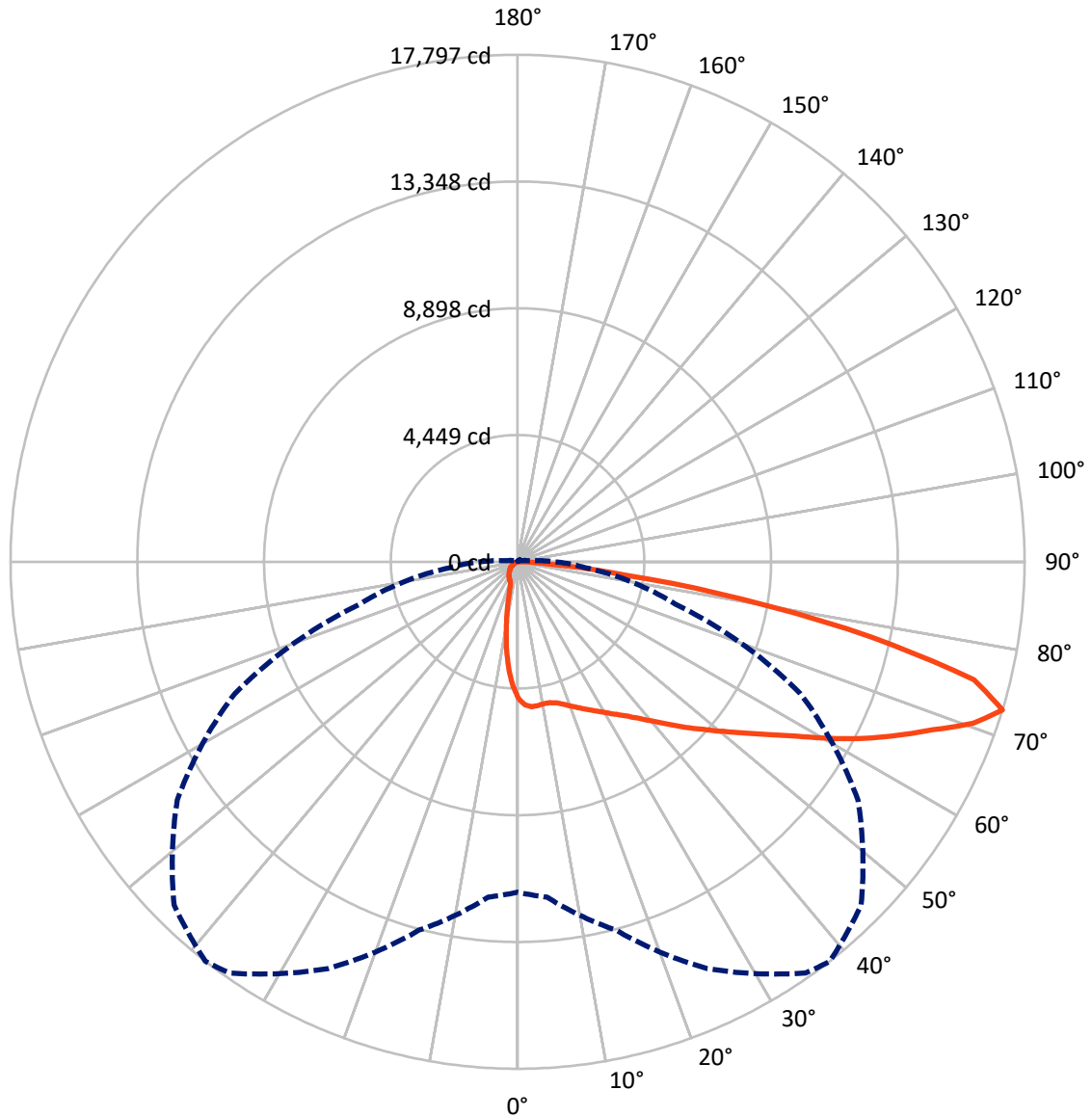
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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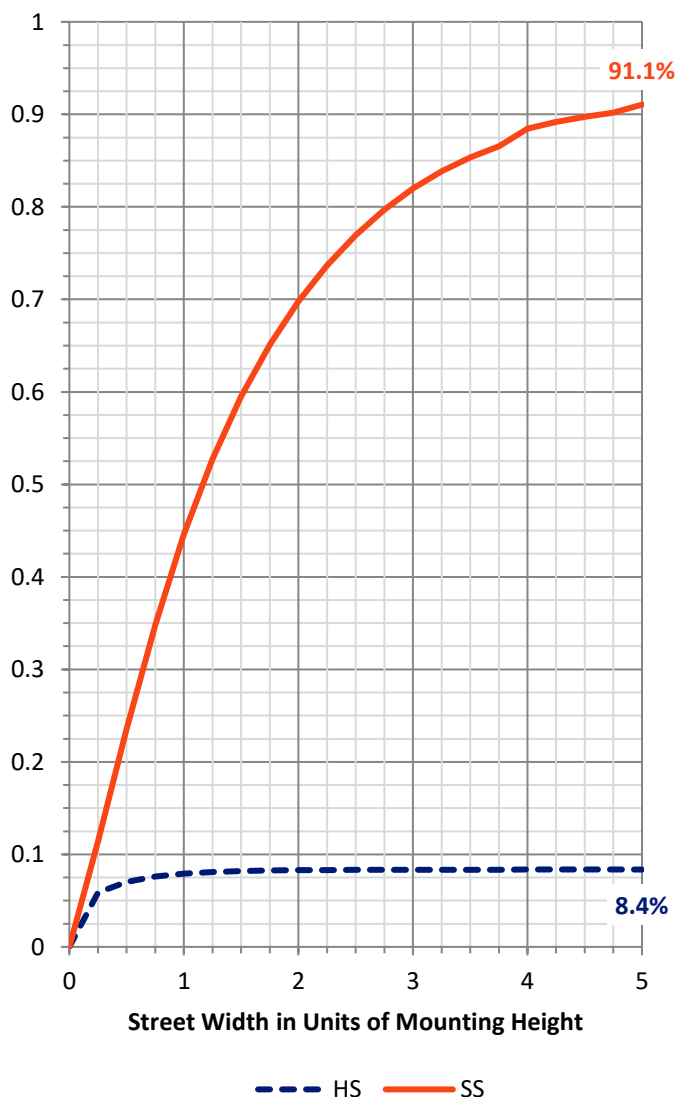
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.8	0.0	2198.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23929.2	0.0	23929.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	26128.0	0.0	26128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	1.6
10°-20°	1001.2	3.8
20°-30°	1592.4	6.1
30°-40°	2394.1	9.2
40°-50°	3652.3	14.0
50°-60°	5162.0	19.8
60°-70°	6474.8	24.8
70°-80°	4841.4	18.5
80°-90°	600.3	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°	26128.0	100.0
0°-180°	26128.0	100.0

Coefficient of Utilization

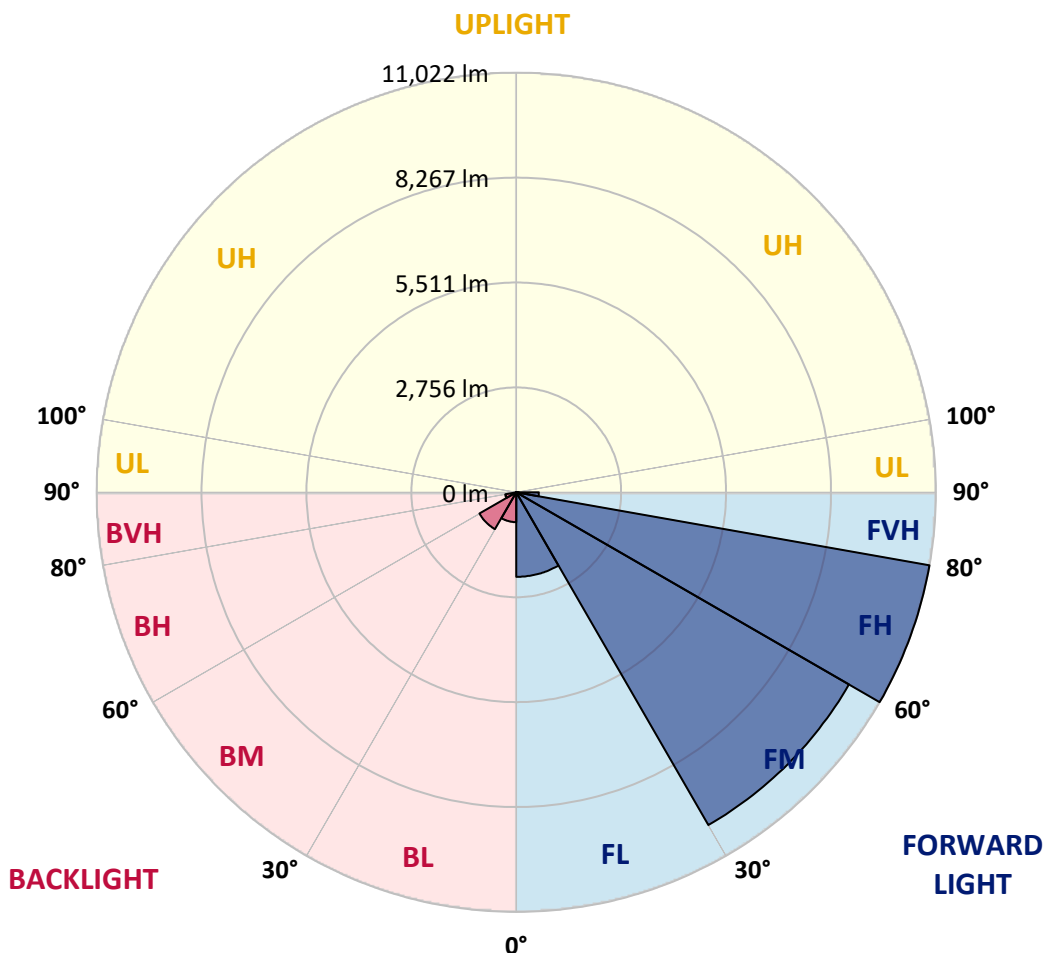


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2220.3	8.5			
FM (30°-60°)	10091.8	38.6			
FH (60°-80°)	11022.5	42.2			G4/12000
FVH (80°-90°)	594.7	2.3			G4/750
BL (0°-30°)	782.9	3.0	B2/1000		
BM (30°-60°)	1116.6	4.3	B2/2500		
BH (60°-80°)	293.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9
2.5°	5100.0	5101.1	5089.2	5069.6	5044.7	5031.6	5009.9	4975.2	4938.3	4872.1	4800.5
5°	5204.2	5204.2	5189.0	5162.9	5122.8	5110.9	5069.6	5014.3	4938.3	4830.9	4710.4
7.5°	5193.3	5195.5	5174.9	5147.7	5107.6	5096.7	5046.8	4985.0	4890.6	4760.4	4606.3
10°	5136.9	5142.3	5126.0	5113.0	5076.1	5064.2	5017.5	4955.7	4861.3	4722.4	4545.5
12.5°	5079.4	5084.8	5090.2	5102.2	5079.4	5075.0	5038.2	4986.1	4896.0	4751.7	4552.0
15°	5042.5	5053.3	5092.4	5139.1	5144.5	5140.2	5116.3	5067.4	4976.3	4826.6	4598.7
17.5°	5042.5	5059.9	5141.2	5230.2	5261.7	5264.9	5244.3	5176.0	5067.4	4906.9	4642.1
20°	5084.8	5108.7	5235.6	5361.5	5413.6	5413.6	5373.4	5278.0	5151.0	4979.6	4671.4
22.5°	5193.3	5224.8	5384.3	5529.7	5585.0	5573.1	5518.9	5380.0	5237.8	5062.0	4708.3
25°	5407.1	5431.0	5597.0	5743.5	5777.1	5750.0	5681.6	5503.7	5348.5	5173.8	4775.6
27.5°	5682.7	5686.0	5857.4	5981.1	5960.5	5942.0	5856.3	5658.8	5508.0	5333.3	4891.7
30°	5985.4	5985.4	6136.3	6230.7	6167.7	6152.6	6066.8	5846.6	5712.0	5550.3	5056.6
32.5°	6278.4	6291.4	6414.1	6473.7	6403.2	6388.0	6304.5	6084.2	5983.3	5881.3	5313.8
35°	6561.6	6571.4	6687.5	6720.1	6652.8	6657.1	6597.4	6410.8	6372.8	6359.8	5701.2
37.5°	6836.2	6838.3	6956.6	6977.2	6943.6	6980.5	6985.9	6821.0	6891.5	6996.8	6247.0
40°	7086.8	7089.0	7206.2	7259.4	7316.9	7364.6	7406.9	7319.0	7552.3	7796.5	6896.9
42.5°	7287.6	7310.4	7459.0	7559.9	7711.9	7803.0	7918.0	7913.7	8339.0	8705.8	7682.6
45°	7464.4	7503.5	7710.8	7887.6	8148.1	8293.5	8473.6	8614.7	9224.5	9718.2	8477.9
47.5°	7697.7	7734.6	7971.2	8260.9	8608.2	8799.1	9097.5	9402.5	10197.8	10712.2	9254.9
50°	8026.5	8010.3	8243.6	8659.2	9105.1	9355.8	9781.2	10238.0	11163.6	11578.1	9711.7
52.5°	8377.0	8370.5	8543.0	9092.1	9691.1	9984.1	10546.2	11101.7	12087.0	12174.9	9921.1
55°	8811.1	8764.4	8909.8	9585.8	10386.6	10701.3	11363.2	11956.8	12822.7	12511.3	10026.4
57.5°	9265.7	9188.7	9327.6	10136.0	11171.2	11543.4	12268.2	12790.2	13312.1	12741.3	10025.3
60°	9735.6	9644.4	9809.4	10823.9	12145.6	12576.4	13249.2	13353.3	13768.9	12857.4	9951.5
62.5°	10128.4	10074.1	10319.4	11559.6	13234.0	13657.2	13990.3	13865.5	14154.1	12947.5	9779.0
65°	10544.0	10547.2	10943.3	12418.0	14390.7	14676.1	14704.3	14529.6	14476.4	12929.0	9195.2
67.5°	11106.1	11158.2	11819.0	13583.4	15515.9	15736.2	15734.0	15249.0	14711.9	12195.5	7900.7
70°	11700.7	11823.3	12828.1	14917.0	16744.3	16967.8	16852.8	15706.9	13852.5	9861.5	5591.6
72.5°	11600.9	11813.6	13389.1	15757.9	17626.5	17796.8	17049.2	14581.7	10948.7	5731.5	2380.7
75°	8950.0	9196.3	12276.9	14924.6	16700.9	16547.9	14648.9	11347.0	5983.3	1599.4	536.0
77.5°	4727.8	4859.1	8110.1	11369.7	13022.4	12702.3	10319.4	6294.7	1824.1	396.1	240.9
80°	2476.2	2506.6	3534.2	6451.0	8037.4	8039.6	6115.7	2764.9	752.0	202.9	161.7
82.5°	1326.0	1352.0	1867.5	2980.8	4211.3	3817.4	2341.7	1521.3	437.3	115.0	155.2
85°	319.0	324.4	1059.1	1361.8	1655.9	1182.8	695.6	1277.2	118.3	67.3	125.9
87.5°	122.6	124.8	392.8	589.2	422.1	273.4	325.5	476.4	15.2	26.0	19.5
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°	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9	4804.9
2.5°	4757.1	4728.9	4659.4	4571.6	4493.4	4437.0	4352.4	4297.0	4260.1	4259.0	4244.9
5°	4636.7	4579.2	4429.4	4251.4	4089.8	3944.4	3772.9	3637.3	3536.4	3520.1	3485.4
7.5°	4507.5	4413.1	4183.1	3905.3	3634.0	3358.4	3038.3	2839.7	2669.4	2588.0	2579.3
10°	4428.3	4295.9	3969.3	3567.8	3142.5	2694.3	2275.5	1985.7	1776.3	1716.6	1672.1
12.5°	4412.0	4237.3	3804.4	3251.0	2643.3	2050.9	1587.5	1279.3	1112.2	1059.1	1045.0
15°	4428.3	4210.2	3665.5	2937.4	2137.7	1455.1	1065.6	886.5	823.6	808.4	807.3
17.5°	4438.1	4177.7	3508.2	2589.1	1647.2	1039.5	816.0	763.9	754.1	753.1	755.2
20°	4437.0	4127.7	3320.4	2200.6	1225.1	817.1	737.9	727.0	724.9	725.9	724.9
22.5°	4429.4	4069.2	3114.3	1800.2	925.6	730.3	704.2	697.7	696.6	696.6	696.6
25°	4443.5	4022.5	2887.5	1417.1	762.8	690.1	673.9	668.4	667.3	667.3	665.2
27.5°	4494.5	3996.4	2639.0	1090.5	689.0	654.3	641.3	640.2	637.0	635.9	638.0
30°	4577.0	3996.4	2366.6	848.6	644.6	617.4	607.7	605.5	604.4	603.3	604.4
32.5°	4722.4	4026.8	2069.3	705.3	602.2	576.2	569.7	572.9	569.7	569.7	569.7
35°	4985.0	4118.0	1757.9	615.3	557.7	536.0	529.5	533.9	531.7	531.7	530.6
37.5°	5368.0	4287.3	1444.3	561.0	518.7	495.9	487.2	493.7	491.6	491.6	490.5
40°	5834.6	4533.6	1145.9	519.8	480.7	456.8	449.2	452.5	447.1	447.1	449.2
42.5°	6410.8	4846.1	885.4	479.6	442.7	419.9	415.6	412.3	402.6	397.1	398.2
45°	7051.0	5171.6	690.1	440.6	406.9	388.5	382.0	373.3	357.0	346.1	347.2
47.5°	7622.9	5422.3	561.0	402.6	374.4	360.3	350.5	334.2	310.3	297.3	298.4
50°	7923.5	5460.3	477.4	364.6	344.0	329.9	315.8	290.8	262.6	248.5	247.4
52.5°	8000.5	5282.3	415.6	329.9	313.6	297.3	278.9	245.2	213.8	198.6	196.4
55°	8028.7	5011.0	360.3	297.3	281.0	262.6	238.7	200.7	171.4	156.3	155.2
57.5°	7935.4	4606.3	316.9	268.0	248.5	225.7	196.4	160.6	132.4	120.4	120.4
60°	7728.1	4058.3	283.2	236.6	214.9	188.8	158.4	124.8	98.7	89.0	89.0
62.5°	7314.7	3348.6	251.7	204.0	183.4	156.3	128.0	94.4	69.4	64.0	65.1
65°	6534.5	2540.2	220.3	174.7	156.3	129.1	99.8	67.3	46.7	46.7	48.8
67.5°	5329.0	1764.4	187.7	148.7	134.6	105.3	76.0	46.7	32.6	36.9	41.2
70°	3527.7	989.6	160.6	122.6	115.0	83.6	56.4	31.5	26.0	34.7	42.3
72.5°	1331.4	385.2	134.6	98.7	99.8	64.0	40.1	23.9	23.9	38.0	49.9
75°	371.1	188.8	96.6	72.7	78.1	46.7	29.3	20.6	22.8	43.4	58.6
77.5°	218.1	138.9	62.9	42.3	53.2	32.6	19.5	16.3	19.5	36.9	56.4
80°	175.8	73.8	36.9	21.7	29.3	18.4	13.0	9.8	5.4	14.1	29.3
82.5°	175.8	44.5	17.4	15.2	15.2	9.8	6.5	4.3	1.1	0.0	7.6
85°	118.3	18.4	10.9	9.8	7.6	3.3	2.2	1.1	0.0	0.0	0.0
87.5°	19.5	7.6	4.3	2.2	1.1	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)