

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: P652856

Luminaire Tested: **GLAN-SA4C-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18312.8 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

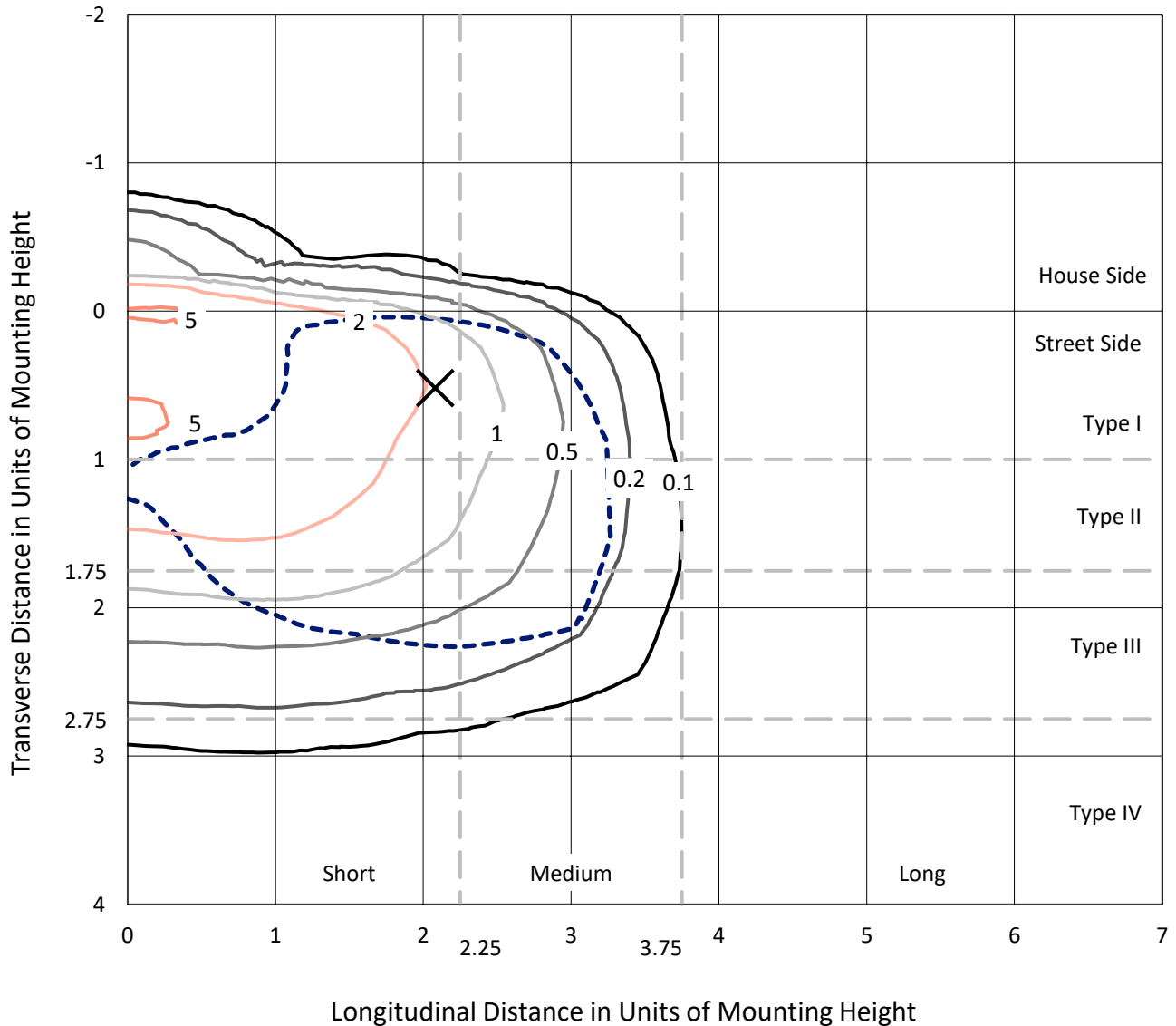
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

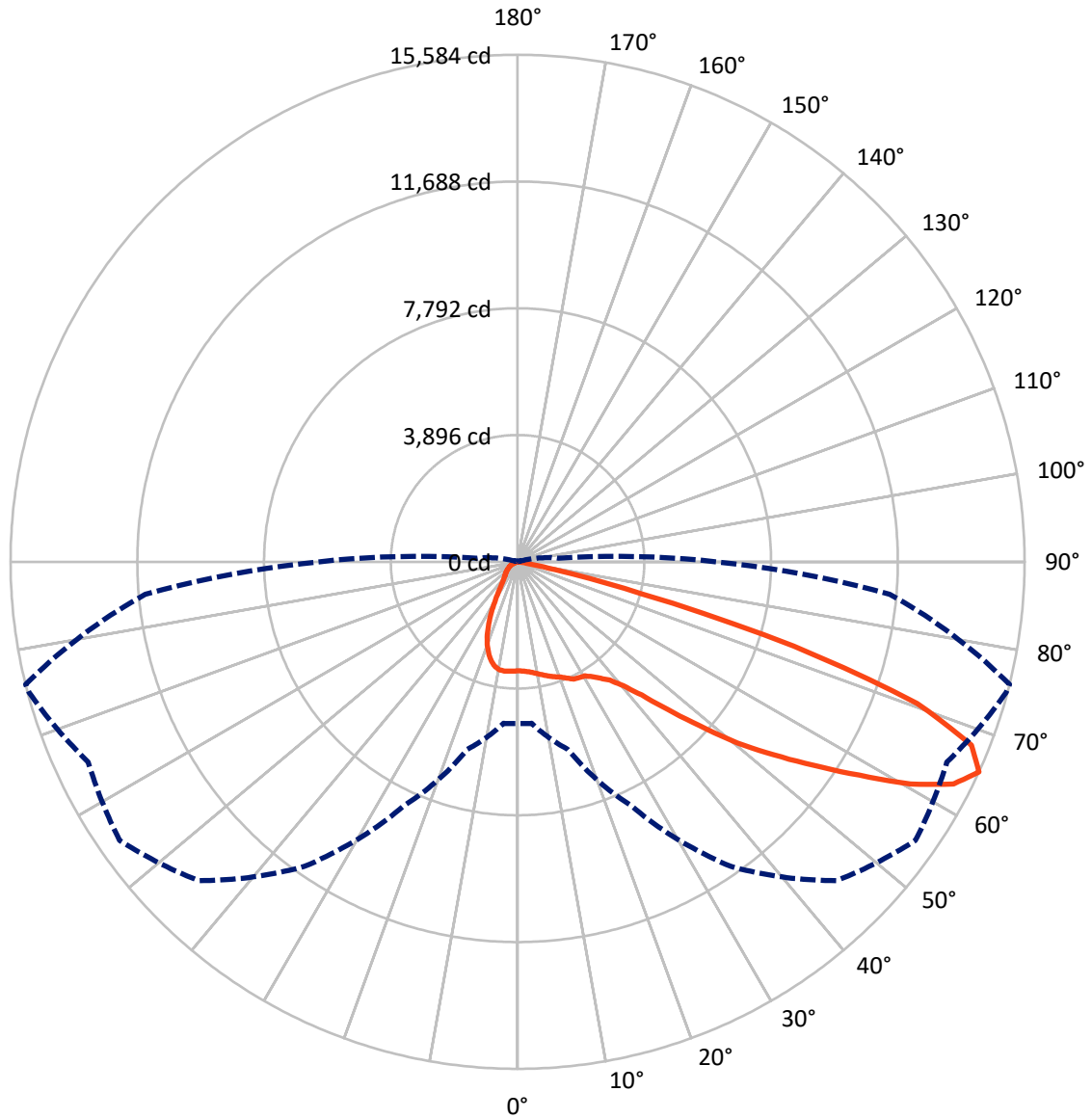
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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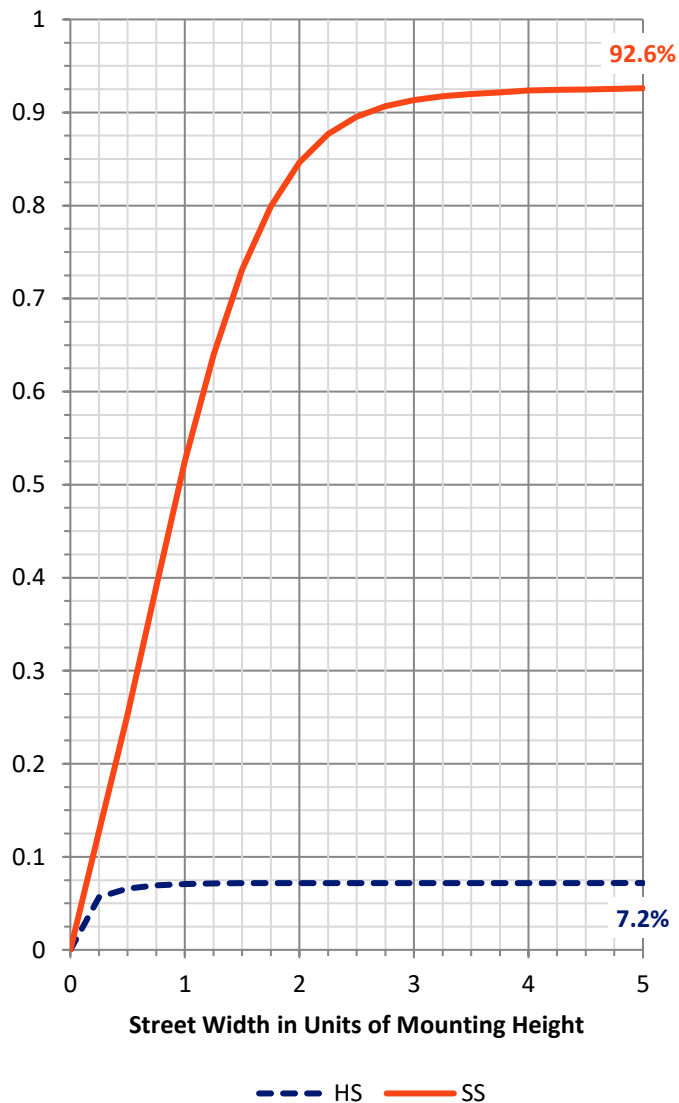
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1322.6	0.0	1322.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16990.2	0.0	16990.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	18312.8	0.0	18312.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.0	1.5
10°-20°	614.4	3.4
20°-30°	990.1	5.4
30°-40°	1721.6	9.4
40°-50°	2844.8	15.5
50°-60°	4394.6	24.0
60°-70°	5366.5	29.3
70°-80°	2036.7	11.1
80°-90°	68.0	0.4
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°	18312.8	100.0
0°-180°	18312.8	100.0

Coefficient of Utilization



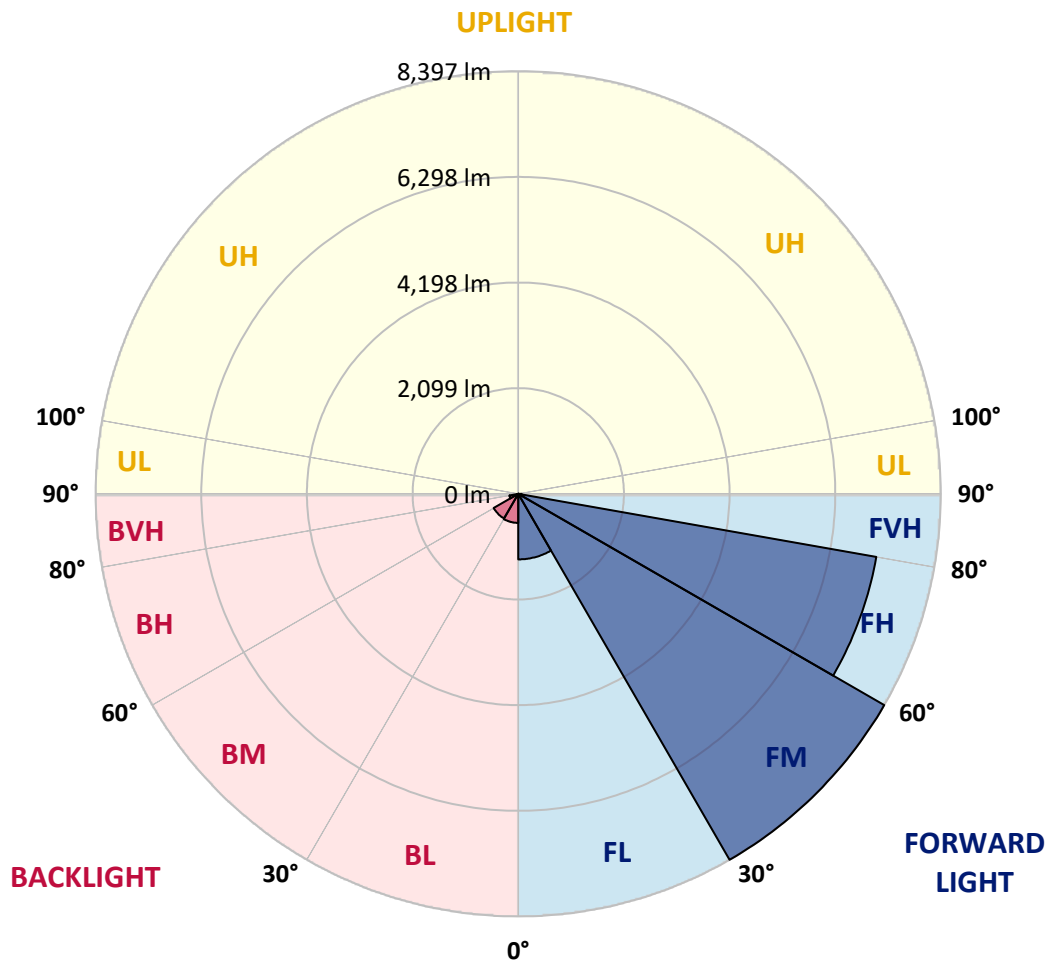
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1302.7	7.1			
FM (30°-60°)	8396.7	45.9			
FH (60°-80°)	7223.8	39.4			G3/7500
FVH (80°-90°)	67.0	0.4			G1/100
BL (0°-30°)	577.8	3.2	B2/1000		
BM (30°-60°)	564.4	3.1	B1/1000		
BH (60°-80°)	179.5	1.0	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3201.3	3202.6	3210.3	3229.8	3259.5	3284.0	3304.7	3338.3	3361.6	3364.3	3372.0
5°	2980.3	2964.7	2980.3	3030.6	3075.9	3144.4	3228.4	3312.5	3387.5	3392.7	3428.8
7.5°	2732.0	2744.9	2769.5	2821.2	2906.5	3011.2	3132.8	3282.8	3425.0	3437.9	3509.0
10°	2479.9	2508.3	2548.4	2627.2	2746.2	2881.9	3047.4	3262.1	3484.4	3502.6	3625.4
12.5°	2247.2	2260.0	2309.2	2415.2	2562.6	2753.9	2982.8	3250.5	3550.4	3572.4	3749.5
15°	2068.7	2085.5	2128.2	2223.9	2388.0	2633.7	2929.8	3246.6	3615.0	3646.1	3873.6
17.5°	2035.1	2045.4	2063.6	2128.2	2271.7	2538.1	2881.9	3245.3	3677.1	3714.6	3988.7
20°	2173.4	2164.4	2146.2	2139.8	2218.6	2464.3	2847.0	3255.6	3736.6	3779.3	4110.2
22.5°	2519.9	2531.6	2425.5	2300.1	2274.2	2452.7	2841.9	3304.7	3830.9	3881.4	4246.0
25°	3255.6	3166.4	3000.9	2701.0	2474.6	2523.8	2900.0	3421.1	3940.8	3996.4	4368.8
27.5°	4068.8	4041.7	3784.4	3290.5	2869.0	2673.8	3003.5	3510.3	3977.1	4033.9	4438.6
30°	4867.9	4900.3	4605.4	4059.8	3441.8	2951.7	3100.4	3543.9	4009.4	4068.8	4527.9
32.5°	5608.7	5647.6	5389.0	4848.5	4116.7	3432.7	3267.3	3674.5	4145.1	4205.9	4676.5
35°	6191.9	6197.0	6001.8	5571.3	4853.7	4017.1	3628.0	3903.3	4328.7	4399.9	4834.3
37.5°	6727.2	6719.3	6490.5	6119.5	5467.8	4597.7	4081.8	4167.2	4538.2	4611.9	5061.8
40°	7124.0	7129.2	7055.6	6706.5	6040.6	5134.2	4441.2	4414.1	4889.9	5005.0	5392.8
42.5°	7389.1	7437.0	7473.1	7296.0	6760.7	5794.9	4993.3	4942.9	5500.1	5595.8	5860.8
45°	7603.7	7689.1	7870.1	7861.0	7452.4	6605.6	5751.0	5647.6	6365.1	6467.3	6456.9
47.5°	7760.2	7846.8	8146.8	8327.8	8102.8	7391.7	6703.9	6614.6	7398.2	7509.4	7115.0
50°	7840.4	7943.7	8326.5	8676.8	8610.9	8149.4	7789.9	7795.1	8645.8	8753.1	7877.8
52.5°	7652.8	7787.3	8422.2	9053.1	9181.1	8874.7	8807.5	8978.1	9756.4	9848.3	8567.0
55°	7054.2	7223.6	8291.6	9373.8	9841.8	9730.6	9963.3	10223.2	10970.5	11030.1	9274.2
57.5°	6675.4	6855.2	7906.3	9646.6	10635.7	10806.3	11174.8	11364.9	12223.4	12374.6	10086.2
60°	6356.0	6497.0	7589.5	9704.7	11442.5	12122.5	12480.7	12677.2	13769.8	13868.0	10979.6
62.5°	5824.7	5986.3	7054.2	9298.8	11848.4	13176.3	13918.5	13830.5	14965.7	15034.2	11527.8
65°	4970.1	4984.3	5968.2	8278.6	11429.5	13860.3	14928.2	14559.7	15537.2	15583.7	11485.1
67.5°	3709.4	3846.5	4591.2	6507.3	9654.3	13275.9	15255.3	14579.2	15176.4	15047.2	10573.6
70°	2389.4	2494.1	3112.1	4512.3	6961.1	11079.2	14170.5	13579.7	13319.8	13032.8	8654.9
72.5°	1102.9	1237.4	1848.9	2578.1	4128.3	7892.0	11503.2	11032.6	9587.1	8878.6	5501.4
75°	481.0	514.6	912.8	1360.1	1935.6	4173.6	7584.4	6848.7	4330.1	3955.1	2201.9
77.5°	293.5	315.5	478.4	729.2	760.3	1590.3	4085.7	2988.0	1338.2	1180.4	597.4
80°	199.1	223.7	347.8	381.4	259.9	443.5	1533.4	797.8	270.2	258.6	128.0
82.5°	97.0	122.9	257.3	213.4	112.5	142.2	446.1	170.6	78.9	73.7	45.2
85°	14.2	24.6	144.8	139.6	50.5	33.6	78.9	42.6	27.2	25.8	20.7
87.5°	0.0	0.0	49.1	22.0	5.1	5.1	9.1	9.1	10.3	9.1	10.3
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°	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0	3350.0
2.5°	3375.9	3382.3	3357.8	3322.9	3285.4	3247.9	3194.9	3147.0	3118.6	3135.3	3094.0
5°	3436.6	3431.4	3366.8	3260.8	3119.9	2950.5	2782.4	2638.9	2592.3	2522.5	2514.8
7.5°	3520.7	3506.5	3369.4	3126.3	2808.3	2490.2	2179.9	1974.3	1856.7	1757.1	1759.7
10°	3638.3	3597.0	3339.6	2889.7	2366.1	1886.4	1490.8	1219.2	1101.5	1064.1	1034.3
12.5°	3759.9	3679.7	3256.9	2570.3	1842.5	1289.1	906.3	740.8	668.4	645.2	642.6
15°	3868.4	3741.8	3112.1	2186.3	1339.5	823.6	618.1	563.7	554.6	556.0	554.6
17.5°	3975.7	3790.9	2911.7	1779.1	910.2	590.9	531.4	518.5	522.3	527.5	526.2
20°	4065.0	3801.2	2655.7	1357.5	643.9	518.5	499.0	496.5	500.4	504.3	504.3
22.5°	4161.9	3809.0	2351.9	940.0	526.2	482.2	471.9	471.9	477.1	482.2	483.6
25°	4234.4	3766.3	1988.5	674.9	464.1	447.3	442.2	443.5	448.7	451.2	449.9
27.5°	4246.0	3646.1	1603.2	517.2	421.5	404.7	399.5	404.7	398.2	402.1	399.5
30°	4256.3	3493.5	1212.8	435.7	382.7	356.8	349.1	341.4	336.1	329.7	328.4
32.5°	4288.7	3313.8	885.7	391.7	346.5	318.1	300.0	278.0	261.2	256.0	254.7
35°	4302.9	3097.9	650.3	356.8	314.2	283.2	250.9	219.8	195.2	186.2	192.7
37.5°	4357.2	2888.4	504.3	331.0	285.8	246.9	205.5	166.8	143.5	138.3	141.0
40°	4468.4	2660.8	422.8	309.0	261.2	213.4	162.9	125.4	109.9	104.7	103.4
42.5°	4646.8	2434.6	376.3	288.3	236.6	179.7	128.0	98.2	85.4	81.5	81.5
45°	4864.0	2217.4	343.9	266.3	210.8	144.8	100.8	78.9	71.1	68.5	68.5
47.5°	5149.8	2027.3	316.8	244.4	182.3	115.0	81.5	68.5	63.3	64.7	65.9
50°	5439.3	1886.4	287.0	219.8	150.0	94.4	69.8	60.8	59.5	60.8	60.8
52.5°	5657.9	1803.6	246.9	186.2	117.7	78.9	62.1	56.9	55.6	53.0	53.0
55°	5952.7	1785.5	196.5	151.3	93.1	65.9	55.6	51.7	47.9	45.2	44.0
57.5°	6331.5	1806.2	151.3	117.7	72.4	54.3	49.1	42.6	37.5	32.3	32.3
60°	6566.8	1759.7	117.7	90.5	53.0	44.0	37.5	31.0	24.6	20.7	19.4
62.5°	6491.8	1563.2	93.1	67.2	37.5	32.3	24.6	20.7	14.2	10.3	9.1
65°	6105.2	1261.9	75.0	46.5	27.2	19.4	13.0	13.0	6.5	1.3	0.0
67.5°	5343.7	934.8	59.5	31.0	15.5	9.1	6.5	3.9	0.0	0.0	0.0
70°	4349.4	674.9	46.5	19.4	9.1	6.5	2.6	1.3	0.0	0.0	0.0
72.5°	2761.7	386.6	36.2	11.6	6.5	2.6	0.0	0.0	0.0	0.0	0.0
75°	1068.0	151.3	24.6	7.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	302.5	71.1	14.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.9	31.0	7.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.5	13.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.0	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	1.3	0.0	0.0	0.0	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)