

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: P650428

Luminaire Tested: **GLAN-SA5B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17863.4 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

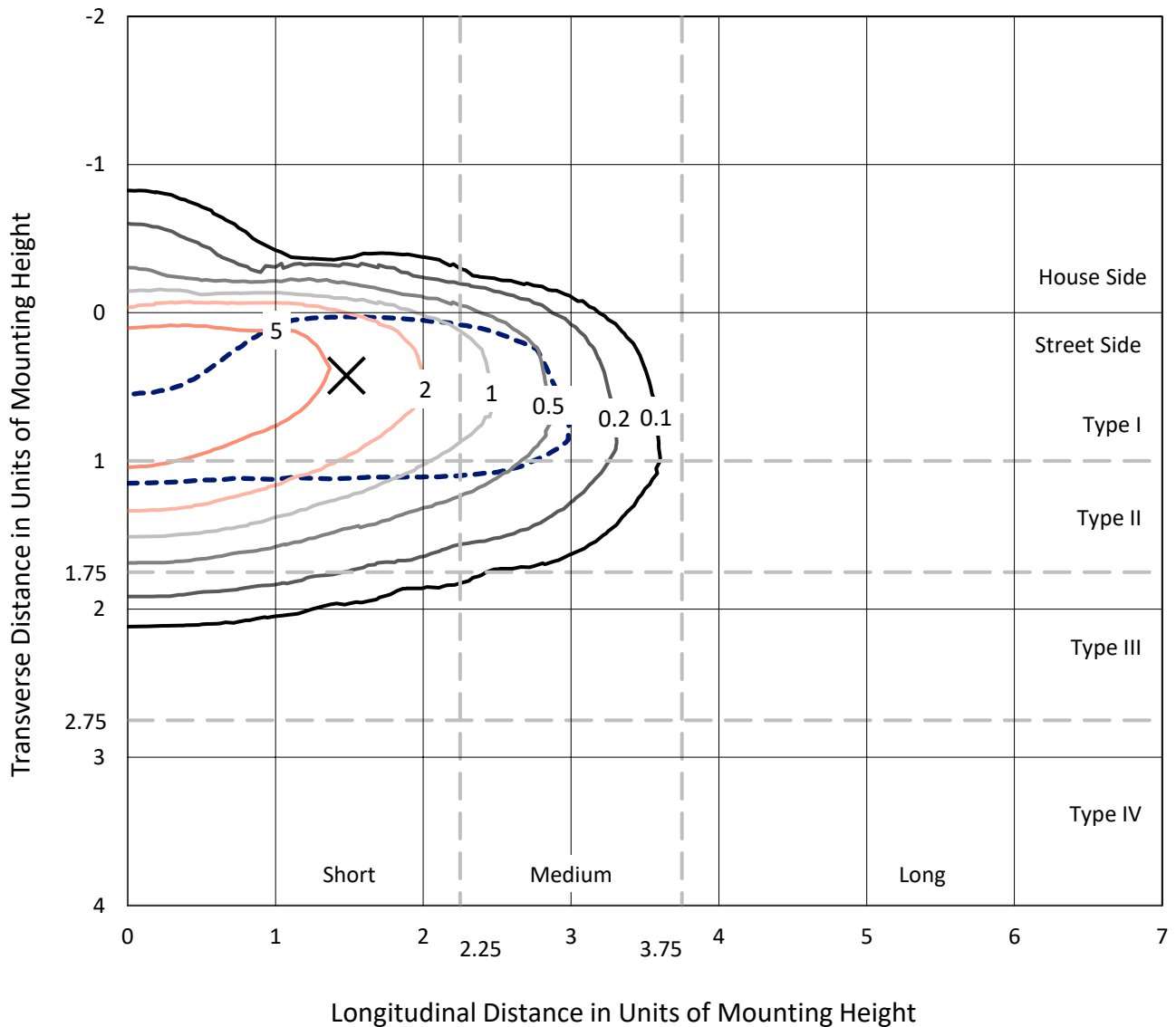
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

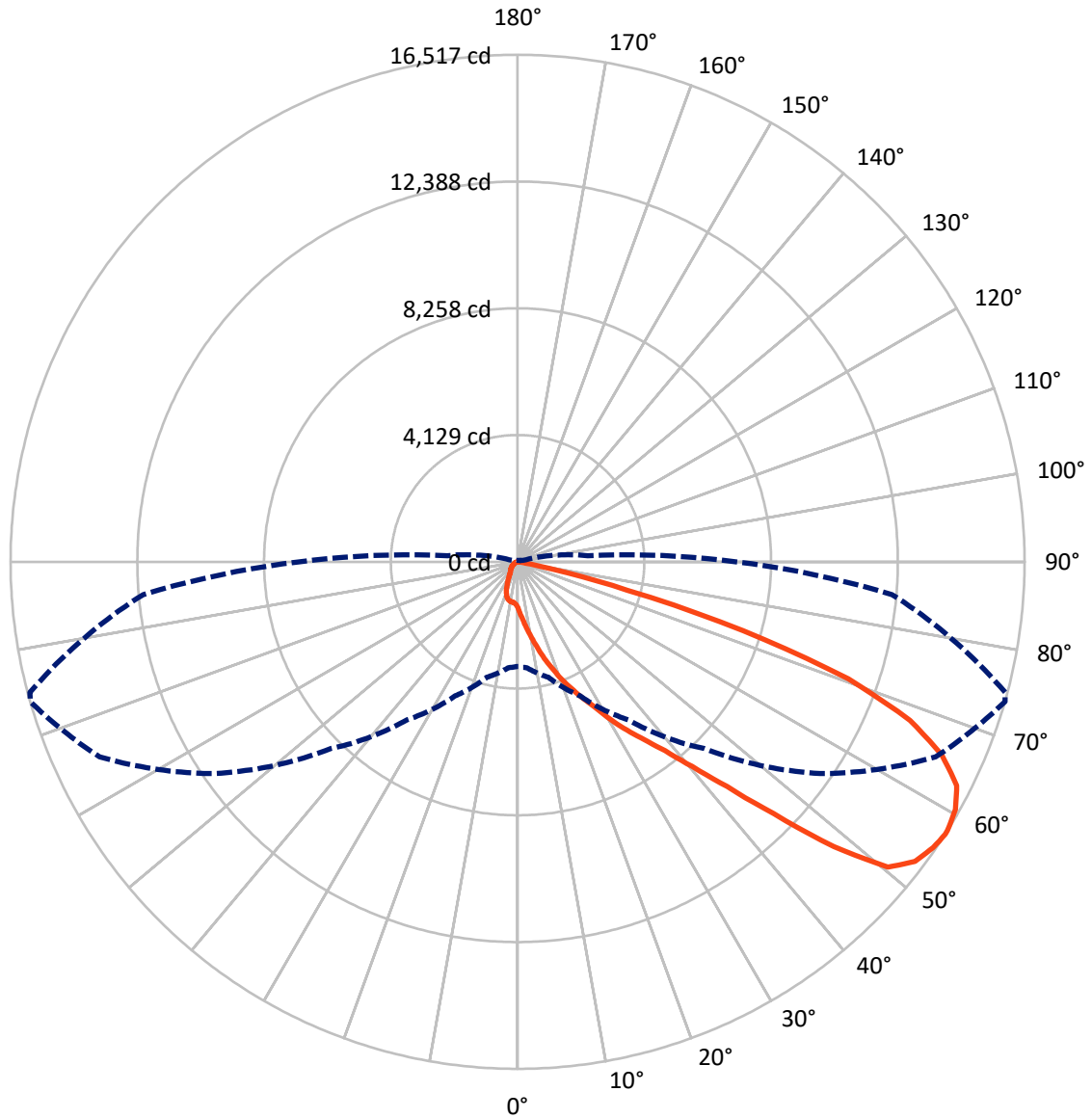
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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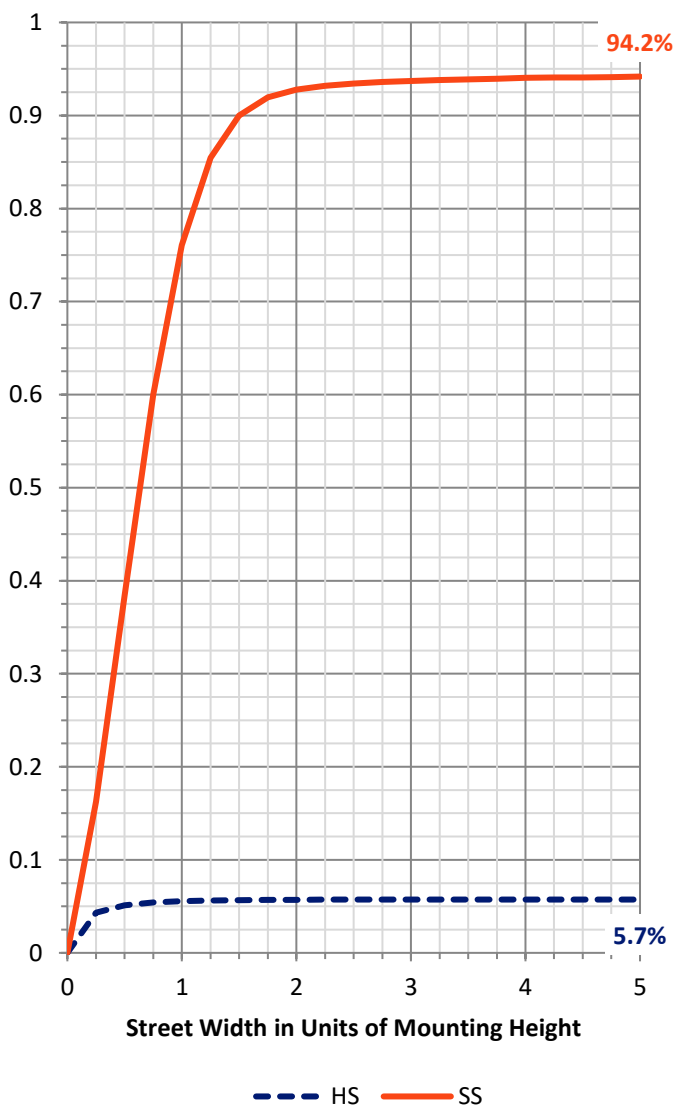
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1030.3	0.0	1030.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16833.1	0.0	16833.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	17863.4	0.0	17863.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.0
10°-20°	711.8	4.0
20°-30°	1523.0	8.5
30°-40°	2799.2	15.7
40°-50°	4291.2	24.0
50°-60°	4539.6	25.4
60°-70°	2964.5	16.6
70°-80°	810.0	4.5
80°-90°	43.6	0.2
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°	17863.4	100.0
0°-180°	17863.4	100.0

Coefficient of Utilization

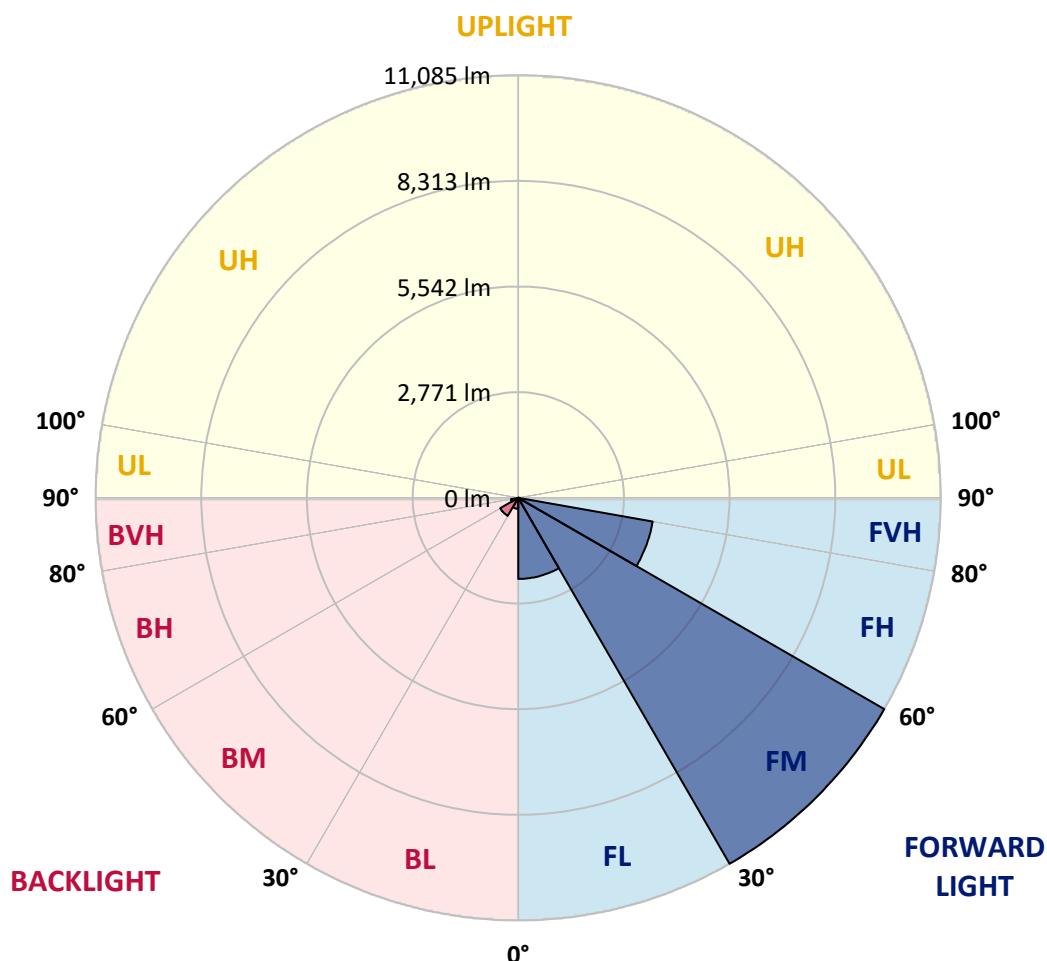


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2127.5	11.9			
FM (30°-60°)	11084.5	62.1			
FH (60°-80°)	3581.0	20.0			G2/5000
FVH (80°-90°)	40.0	0.2			G1/100
BL (0°-30°)	287.8	1.6	B1/500		
BM (30°-60°)	545.5	3.1	B1/1000		
BH (60°-80°)	193.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	2189.2	2169.5	2130.0	2116.4	2058.4	1968.4	1889.5	1783.4	1699.5	1690.9	1589.8
5°	2931.6	2887.2	2868.8	2780.0	2640.6	2509.8	2285.3	2115.2	1919.1	1904.3	1700.8
7.5°	3647.0	3585.3	3566.8	3482.9	3320.2	3114.1	2823.1	2513.5	2202.7	2174.4	1850.0
10°	4164.9	4173.6	4140.3	4084.8	3952.8	3743.1	3384.3	2961.2	2518.4	2482.7	2017.7
12.5°	4536.2	4535.0	4541.2	4539.9	4469.6	4310.5	3933.1	3445.9	2866.2	2795.9	2210.1
15°	4777.9	4781.6	4800.1	4864.2	4871.7	4773.0	4458.5	3909.7	3269.6	3182.0	2418.5
17.5°	5022.2	5048.0	5077.6	5138.0	5192.3	5152.8	4930.9	4393.1	3634.6	3569.3	2641.8
20°	5425.4	5461.2	5444.0	5480.9	5509.3	5513.0	5341.5	4839.6	4077.4	3967.6	2897.1
22.5°	6070.4	6069.3	6024.9	5958.2	5902.7	5900.3	5744.9	5298.4	4479.5	4373.4	3153.6
25°	6885.7	6889.4	6803.1	6613.1	6475.0	6306.0	6127.2	5700.5	4909.9	4779.2	3423.7
27.5°	7820.6	7797.1	7666.4	7404.9	7131.1	6842.6	6584.8	6167.9	5366.2	5257.7	3733.3
30°	8660.4	8651.8	8498.9	8179.5	7819.4	7529.5	7155.8	6753.8	5957.0	5823.8	4079.9
32.5°	9442.4	9454.7	9242.6	8912.0	8564.3	8230.0	7835.4	7313.7	6536.6	6347.9	4457.2
35°	10052.9	10065.2	9845.7	9570.7	9213.0	8935.5	8559.4	7910.6	7108.9	6949.8	4891.4
37.5°	10378.5	10394.6	10267.5	10060.3	9837.1	9697.7	9347.5	8678.9	7804.6	7708.3	5404.5
40°	10440.1	10458.7	10403.2	10347.7	10335.4	10435.2	10332.9	9584.2	8769.0	8618.6	6169.1
42.5°	10255.2	10279.9	10304.5	10427.8	10679.4	11045.7	11402.2	10812.6	10011.0	9808.7	7104.0
45°	9769.3	9766.8	9864.2	10183.6	10747.3	11529.2	12519.5	12350.6	11703.1	11462.6	8424.9
47.5°	8937.9	8925.7	9136.5	9591.7	10469.7	11618.0	13431.0	14217.9	13862.7	13640.6	9844.5
50°	7671.4	7731.7	8063.6	8698.7	9780.3	11349.1	13712.2	15442.6	15634.9	15399.4	10991.4
52.5°	6187.7	6185.2	6705.6	7567.7	8759.1	10757.2	13516.1	15664.5	16210.9	16030.8	11556.3
55°	4579.4	4611.4	5152.8	6022.4	7433.3	9676.7	12876.0	15436.4	16430.5	16303.5	11928.8
57°	3406.4	3463.2	3897.3	4817.4	6278.9	8607.4	12023.7	15028.2	16516.8	16447.7	12238.4
57.5°	3179.5	3182.0	3605.0	4441.3	5940.9	8196.8	11779.5	14858.0	16514.3	16476.1	12289.0
60°	1957.3	2019.0	2311.3	3001.9	4348.7	6397.3	10142.9	13879.9	16386.1	16441.6	12504.7
62.5°	1171.7	1197.6	1387.5	1809.3	2803.4	4669.4	8300.3	12628.1	16051.8	16220.8	12489.9
65°	753.6	759.7	846.0	1095.2	1752.6	3156.1	6396.1	10974.2	15187.3	15498.1	12001.6
67.5°	582.2	592.0	626.6	719.0	1016.3	1966.0	4523.9	9209.3	13788.6	14189.5	10817.5
70°	516.8	521.7	534.0	563.6	672.2	1110.0	2814.5	7194.0	11434.2	11547.7	8465.6
72.5°	421.8	435.3	473.6	483.5	532.8	693.1	1566.3	4828.5	7682.4	7710.8	4736.0
75°	326.8	329.3	386.0	414.4	449.0	477.3	699.3	2434.6	3690.1	3492.8	1825.3
77.5°	244.2	255.3	281.2	317.0	366.3	341.6	313.3	917.6	1145.8	1124.8	530.3
80°	156.6	162.8	196.1	238.0	284.9	223.2	176.3	268.9	251.6	259.0	127.0
82.5°	78.9	80.2	125.8	193.6	181.3	112.2	111.0	109.8	93.7	92.5	59.2
85°	8.6	18.5	81.4	111.0	81.4	37.0	51.8	50.6	49.3	50.6	34.5
87.5°	1.3	1.3	13.5	16.1	11.1	12.4	14.8	16.1	19.7	18.5	14.8
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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1540.4	1491.1	1399.8	1312.2	1246.9	1205.0	1150.7	1131.0	1102.6	1098.9	1085.3
5°	1607.0	1513.3	1354.2	1228.4	1127.3	1050.8	984.2	928.7	884.3	874.5	879.4
7.5°	1702.0	1562.6	1340.7	1169.2	1028.6	897.9	791.8	726.5	679.6	662.3	664.8
10°	1809.3	1628.0	1338.1	1106.3	891.7	731.4	615.4	557.5	530.3	520.5	509.3
12.5°	1936.4	1703.3	1332.0	1008.9	741.3	583.3	500.7	466.2	440.3	432.9	432.9
15°	2079.4	1783.4	1302.4	888.0	601.9	482.2	426.7	399.6	391.0	383.6	383.6
17.5°	2228.7	1862.4	1240.7	738.8	499.5	413.2	378.7	362.6	350.2	341.6	341.6
20°	2398.8	1940.0	1142.1	606.8	421.8	368.8	341.6	323.1	313.3	305.8	303.4
22.5°	2560.4	2002.9	1016.3	498.3	367.5	331.8	307.1	287.4	277.5	273.8	273.8
25°	2728.1	2041.2	864.6	411.9	335.4	300.9	273.8	257.8	249.2	246.6	245.5
27.5°	2890.9	2063.4	731.4	360.1	305.8	272.6	246.6	234.4	225.7	223.2	224.5
30°	3088.2	2067.0	601.9	323.1	280.0	245.5	222.0	210.9	205.9	203.5	202.2
32.5°	3288.1	2062.1	505.7	300.9	255.3	222.0	202.2	193.6	190.0	186.2	186.2
35°	3512.5	2036.3	430.4	278.7	231.8	202.2	185.0	177.6	172.7	169.0	167.7
37.5°	3791.3	2022.6	387.3	254.1	210.9	183.8	167.7	160.4	156.6	151.7	150.5
40°	4230.3	2083.1	373.7	231.8	190.0	166.5	151.7	143.1	138.1	133.2	131.9
42.5°	4777.9	2189.2	351.5	209.7	171.4	150.5	135.7	125.8	117.1	111.0	108.5
45°	5487.1	2328.6	317.0	186.2	155.4	133.2	119.6	107.3	96.2	91.3	90.0
47.5°	6230.8	2463.0	286.1	167.7	138.1	118.4	103.6	90.0	80.2	76.5	75.2
50°	6687.1	2490.1	266.4	146.7	120.9	102.3	87.5	75.2	69.1	65.4	65.4
52.5°	6895.6	2447.0	239.3	128.3	104.8	90.0	75.2	65.4	61.7	59.2	57.9
55°	7041.1	2380.3	203.5	111.0	90.0	76.5	66.6	59.2	54.3	51.8	50.6
57°	7126.2	2290.3	176.3	97.4	77.7	66.6	59.2	53.0	48.1	43.1	43.1
57.5°	7129.9	2255.7	169.0	96.2	74.0	64.1	57.9	51.8	45.6	40.7	39.5
60°	7020.1	2019.0	135.7	81.4	59.2	54.3	48.1	40.7	32.1	27.2	25.9
62.5°	6667.4	1718.1	112.2	69.1	48.1	42.0	34.5	30.9	22.2	16.1	16.1
65°	6133.4	1393.7	96.2	55.5	39.5	30.9	23.4	22.2	13.5	7.4	6.2
67.5°	5361.3	1085.3	81.4	45.6	33.3	22.2	16.1	14.8	7.4	2.5	0.0
70°	4084.8	740.0	67.8	37.0	24.7	16.1	11.1	8.6	4.9	1.3	0.0
72.5°	2354.4	407.0	56.8	28.3	18.5	12.4	8.6	4.9	4.9	0.0	0.0
75°	841.1	175.2	43.1	21.0	14.8	9.9	6.2	2.5	3.7	1.3	0.0
77.5°	267.6	93.7	28.3	16.1	12.4	7.4	4.9	2.5	2.5	1.3	0.0
80°	78.9	49.3	17.3	13.5	8.6	6.2	3.7	1.3	2.5	1.3	0.0
82.5°	43.1	24.7	13.5	9.9	8.6	4.9	3.7	1.3	1.3	1.3	0.0
85°	22.2	14.8	11.1	9.9	8.6	4.9	3.7	1.3	0.0	1.3	1.3
87.5°	12.4	11.1	11.1	9.9	8.6	6.2	3.7	1.3	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)