

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: P454153

Luminaire Tested: **GLAN-SA5B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454153
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-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 19080 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

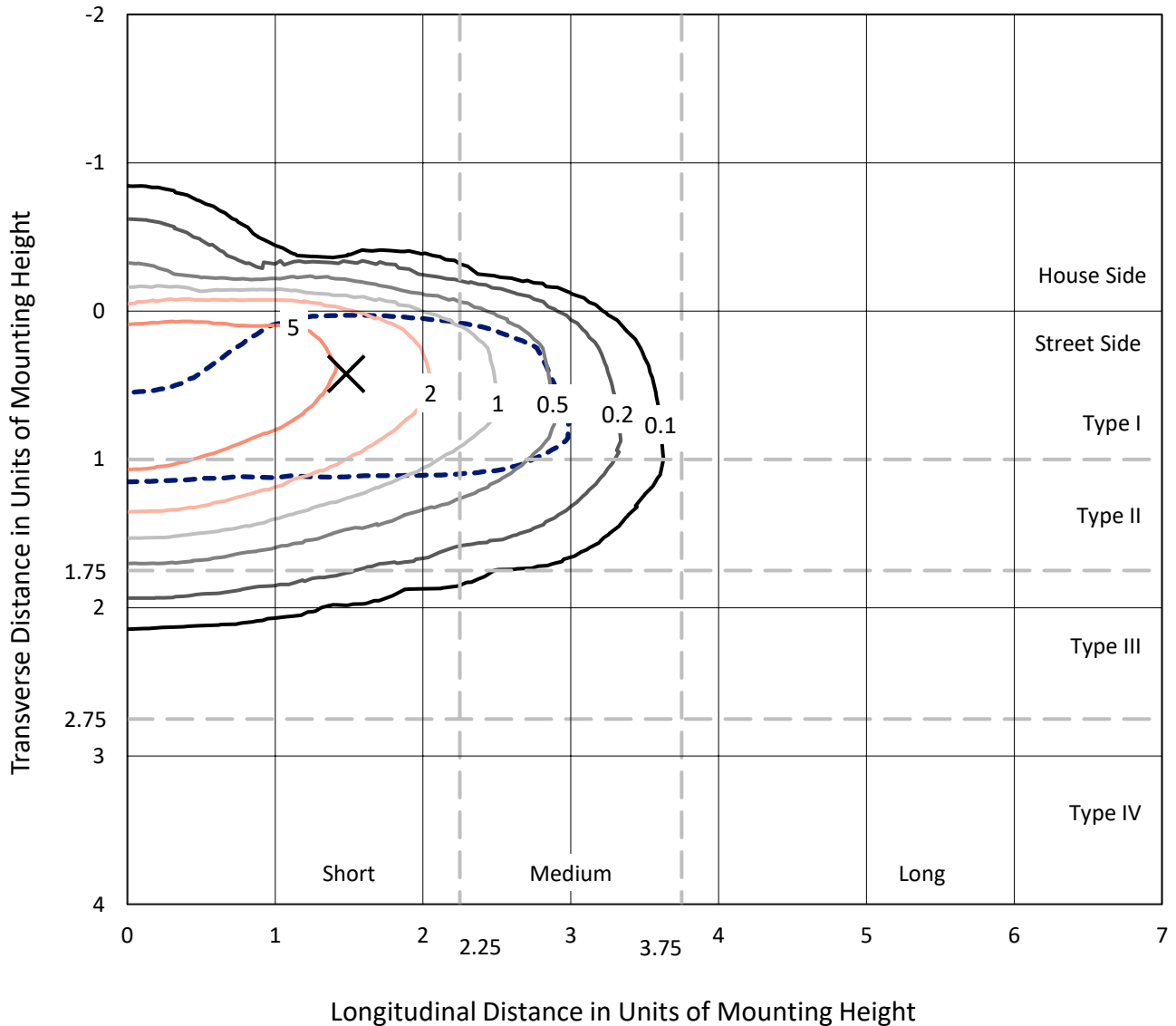
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

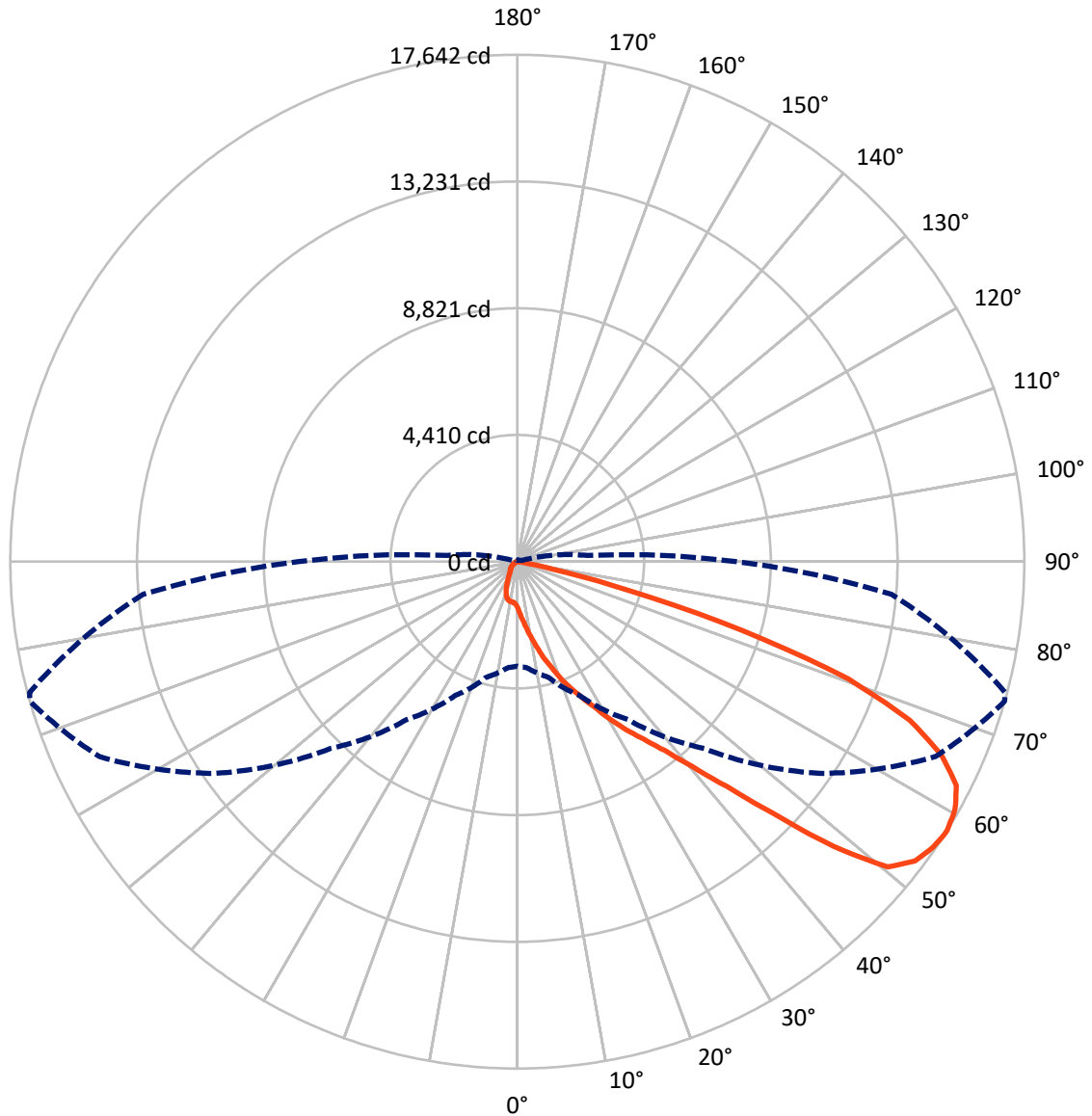
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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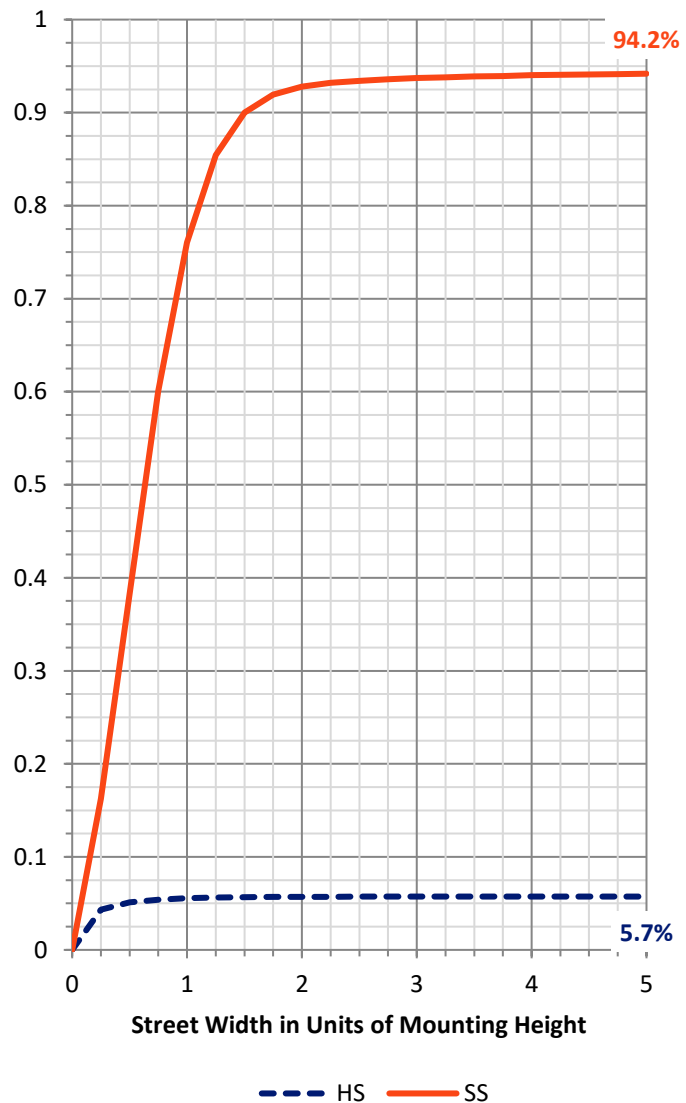
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1100.5	0.0	1100.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17979.5	0.0	17979.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	19080.0	0.0	19080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	1.0
10°-20°	760.2	4.0
20°-30°	1626.7	8.5
30°-40°	2989.9	15.7
40°-50°	4583.5	24.0
50°-60°	4848.7	25.4
60°-70°	3166.4	16.6
70°-80°	865.2	4.5
80°-90°	46.6	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°	19080.0	100.0
0°-180°	19080.0	100.0



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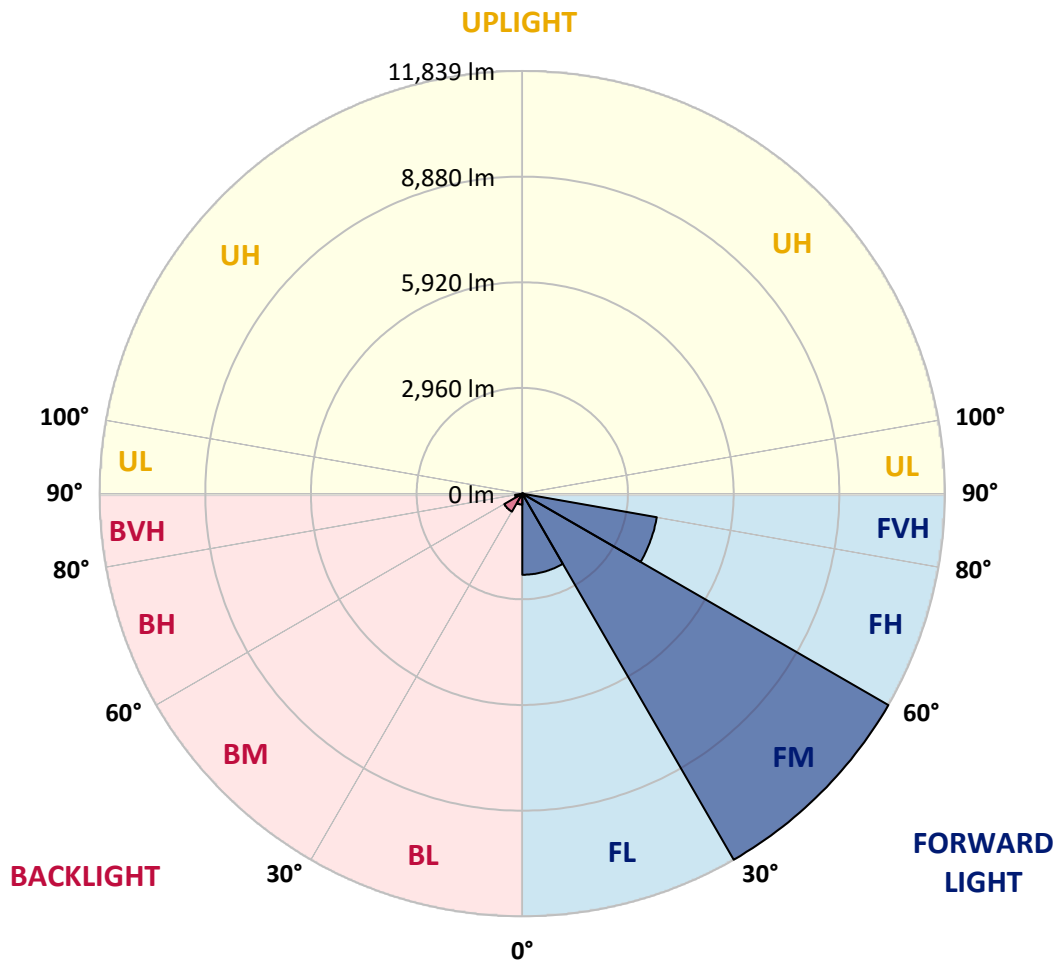
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2272.4	11.9			
FM (30°-60°)	11839.5	62.1			
FH (60°-80°)	3824.9	20.0			G2/5000
FVH (80°-90°)	42.7	0.2			G1/100
BL (0°-30°)	307.4	1.6	B1/500		
BM (30°-60°)	582.6	3.1	B1/1000		
BH (60°-80°)	206.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	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°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	2338.3	2317.2	2275.0	2260.5	2198.6	2102.5	2018.2	1904.9	1815.3	1806.1	1698.0
5°	3131.3	3083.9	3064.1	2969.3	2820.4	2680.8	2441.0	2259.2	2049.8	2034.0	1816.6
7.5°	3895.4	3829.5	3809.7	3720.1	3546.3	3326.3	3015.4	2684.7	2352.8	2322.5	1976.0
10°	4448.6	4457.9	4422.3	4363.0	4222.1	3998.1	3614.8	3162.9	2690.0	2651.8	2155.2
12.5°	4845.2	4843.8	4850.4	4849.1	4774.0	4604.1	4201.0	3680.6	3061.5	2986.4	2360.7
15°	5103.3	5107.3	5127.1	5195.6	5203.5	5098.1	4762.2	4175.9	3492.3	3398.7	2583.3
17.5°	5364.2	5391.8	5423.5	5488.0	5546.0	5503.8	5266.7	4692.3	3882.2	3812.4	2821.7
20°	5794.9	5833.2	5814.7	5854.2	5884.5	5888.5	5705.4	5169.2	4355.1	4237.9	3094.4
22.5°	6483.9	6482.6	6435.2	6364.0	6304.8	6302.1	6136.1	5659.3	4784.6	4671.3	3368.4
25°	7354.7	7358.6	7266.4	7063.5	6916.0	6735.5	6544.5	6088.7	5244.3	5104.7	3656.9
27.5°	8353.2	8328.2	8188.5	7909.3	7616.8	7308.6	7033.2	6588.0	5731.7	5615.8	3987.6
30°	9250.3	9241.1	9077.7	8736.6	8351.9	8042.3	7643.2	7213.7	6362.7	6220.4	4357.7
32.5°	10085.5	10098.7	9872.1	9519.0	9147.6	8790.6	8369.0	7811.8	6981.9	6780.3	4760.8
35°	10737.6	10750.8	10516.3	10222.5	9840.5	9544.1	9142.3	8449.4	7593.1	7423.2	5224.5
37.5°	11085.4	11102.5	10966.8	10745.5	10507.0	10358.2	9984.1	9270.1	8336.1	8233.3	5772.6
40°	11151.2	11171.0	11111.7	11052.4	11039.3	11146.0	11036.6	10237.0	9366.2	9205.5	6589.3
42.5°	10953.6	10980.0	11006.3	11138.1	11406.8	11798.0	12178.7	11549.1	10692.8	10476.8	7587.8
45°	10434.6	10432.0	10536.0	10877.2	11479.2	12314.4	13372.2	13191.8	12500.2	12243.3	8998.7
47.5°	9546.7	9533.5	9758.8	10244.9	11182.8	12409.3	14345.8	15186.2	14806.8	14569.7	10515.0
50°	8193.8	8258.4	8612.7	9291.2	10446.5	12122.1	14646.1	16494.3	16699.8	16448.2	11740.1
52.5°	6609.1	6606.4	7162.3	8083.2	9355.7	11489.8	14436.7	16731.4	17315.0	17122.7	12343.4
55°	4891.3	4925.5	5503.8	6432.5	7939.6	10335.8	13753.0	16487.7	17549.5	17413.8	12741.2
57°	3638.5	3699.1	4162.8	5145.5	6706.5	9193.7	12842.7	16051.7	17641.7	17568.0	13071.9
57.5°	3396.1	3398.7	3850.6	4743.7	6345.6	8755.0	12581.8	15869.9	17639.1	17598.3	13125.9
60°	2090.6	2156.5	2468.7	3206.4	4644.9	6833.0	10833.7	14825.3	17502.1	17561.4	13356.4
62.5°	1251.5	1279.1	1482.0	1932.5	2994.3	4987.4	8865.7	13488.2	17145.1	17325.6	13340.6
65°	804.9	811.5	903.7	1169.8	1871.9	3371.1	6831.7	11721.6	16221.6	16553.6	12819.0
67.5°	621.8	632.3	669.2	768.0	1085.5	2099.8	4832.0	9836.5	14727.8	15155.9	11554.3
70°	552.0	557.2	570.4	602.0	717.9	1185.6	3006.2	7684.0	12213.0	12334.2	9042.2
72.5°	450.5	465.0	505.9	516.4	569.1	740.3	1673.0	5157.4	8205.7	8236.0	5058.6
75°	349.1	351.7	412.3	442.6	479.5	509.8	746.9	2600.4	3941.5	3730.7	1949.7
77.5°	260.8	272.7	300.4	338.6	391.2	364.9	334.6	980.1	1223.8	1201.4	566.5
80°	167.3	173.9	209.5	254.2	304.3	238.4	188.4	287.2	268.7	276.6	135.7
82.5°	84.3	85.6	134.4	206.8	193.6	119.9	118.6	117.2	100.1	98.8	63.2
85°	9.2	19.8	86.9	118.6	86.9	39.5	55.3	54.0	52.7	54.0	36.9
87.5°	1.3	1.3	14.5	17.1	11.9	13.2	15.8	17.1	21.1	19.8	15.8
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°	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9	1597.9
2.5°	1645.3	1592.7	1495.2	1401.6	1331.8	1287.0	1229.1	1208.0	1177.7	1173.7	1159.3
5°	1716.5	1616.4	1446.4	1312.1	1204.0	1122.4	1051.2	992.0	944.5	934.0	939.3
7.5°	1817.9	1669.1	1431.9	1248.8	1098.7	959.0	845.7	775.9	725.9	707.4	710.0
10°	1932.5	1738.9	1429.3	1181.6	952.4	781.2	657.3	595.4	566.5	555.9	544.1
12.5°	2068.2	1819.2	1422.7	1077.6	791.7	623.1	534.8	498.0	470.3	462.4	462.4
15°	2221.0	1904.9	1391.1	948.5	642.9	515.1	455.8	426.8	417.6	409.7	409.7
17.5°	2380.4	1989.2	1325.2	789.1	533.5	441.3	404.4	387.3	374.1	364.9	364.9
20°	2562.2	2072.2	1219.9	648.1	450.5	393.9	364.9	345.1	334.6	326.7	324.1
22.5°	2734.8	2139.3	1085.5	532.2	392.6	354.4	328.0	306.9	296.4	292.4	292.4
25°	2913.9	2180.2	923.5	440.0	358.3	321.4	292.4	275.3	266.1	263.5	262.1
27.5°	3087.8	2203.9	781.2	384.7	326.7	291.1	263.5	250.3	241.1	238.4	239.8
30°	3298.6	2207.9	642.9	345.1	299.0	262.1	237.1	225.3	220.0	217.4	216.0
32.5°	3512.0	2202.6	540.1	321.4	272.7	237.1	216.0	206.8	202.9	198.9	198.9
35°	3751.8	2174.9	459.7	297.7	247.7	216.0	197.6	189.7	184.4	180.5	179.2
37.5°	4049.5	2160.4	413.6	271.4	225.3	196.3	179.2	171.3	167.3	162.0	160.7
40°	4518.5	2225.0	399.2	247.7	202.9	177.8	162.0	152.8	147.5	142.3	141.0
42.5°	5103.3	2338.3	375.4	223.9	183.1	160.7	144.9	134.4	125.1	118.6	115.9
45°	5860.8	2487.1	338.6	198.9	166.0	142.3	127.8	114.6	102.8	97.5	96.2
47.5°	6655.2	2630.7	305.6	179.2	147.5	126.5	110.7	96.2	85.6	81.7	80.4
50°	7142.6	2659.7	284.5	156.8	129.1	109.3	93.5	80.4	73.8	69.8	69.8
52.5°	7365.2	2613.6	255.6	137.0	112.0	96.2	80.4	69.8	65.9	63.2	61.9
55°	7520.7	2542.5	217.4	118.6	96.2	81.7	71.1	63.2	58.0	55.3	54.0
57°	7611.6	2446.3	188.4	104.1	83.0	71.1	63.2	56.6	51.4	46.1	46.1
57.5°	7615.5	2409.4	180.5	102.8	79.0	68.5	61.9	55.3	48.7	43.5	42.2
60°	7498.3	2156.5	144.9	86.9	63.2	58.0	51.4	43.5	34.3	29.0	27.7
62.5°	7121.5	1835.0	119.9	73.8	51.4	44.8	36.9	32.9	23.7	17.1	17.1
65°	6551.1	1488.6	102.8	59.3	42.2	32.9	25.0	23.7	14.5	7.9	6.6
67.5°	5726.4	1159.3	86.9	48.7	35.6	23.7	17.1	15.8	7.9	2.6	0.0
70°	4363.0	790.4	72.5	39.5	26.3	17.1	11.9	9.2	5.3	1.3	0.0
72.5°	2514.8	434.7	60.6	30.3	19.8	13.2	9.2	5.3	5.3	0.0	0.0
75°	898.4	187.1	46.1	22.4	15.8	10.5	6.6	2.6	4.0	1.3	0.0
77.5°	285.9	100.1	30.3	17.1	13.2	7.9	5.3	2.6	2.6	1.3	0.0
80°	84.3	52.7	18.4	14.5	9.2	6.6	4.0	1.3	2.6	1.3	0.0
82.5°	46.1	26.3	14.5	10.5	9.2	5.3	4.0	1.3	1.3	1.3	0.0
85°	23.7	15.8	11.9	10.5	9.2	5.3	4.0	1.3	0.0	1.3	1.3
87.5°	13.2	11.9	11.9	10.5	9.2	6.6	4.0	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)