

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: P456181

Luminaire Tested: **GLAN-SA7B-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23544 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

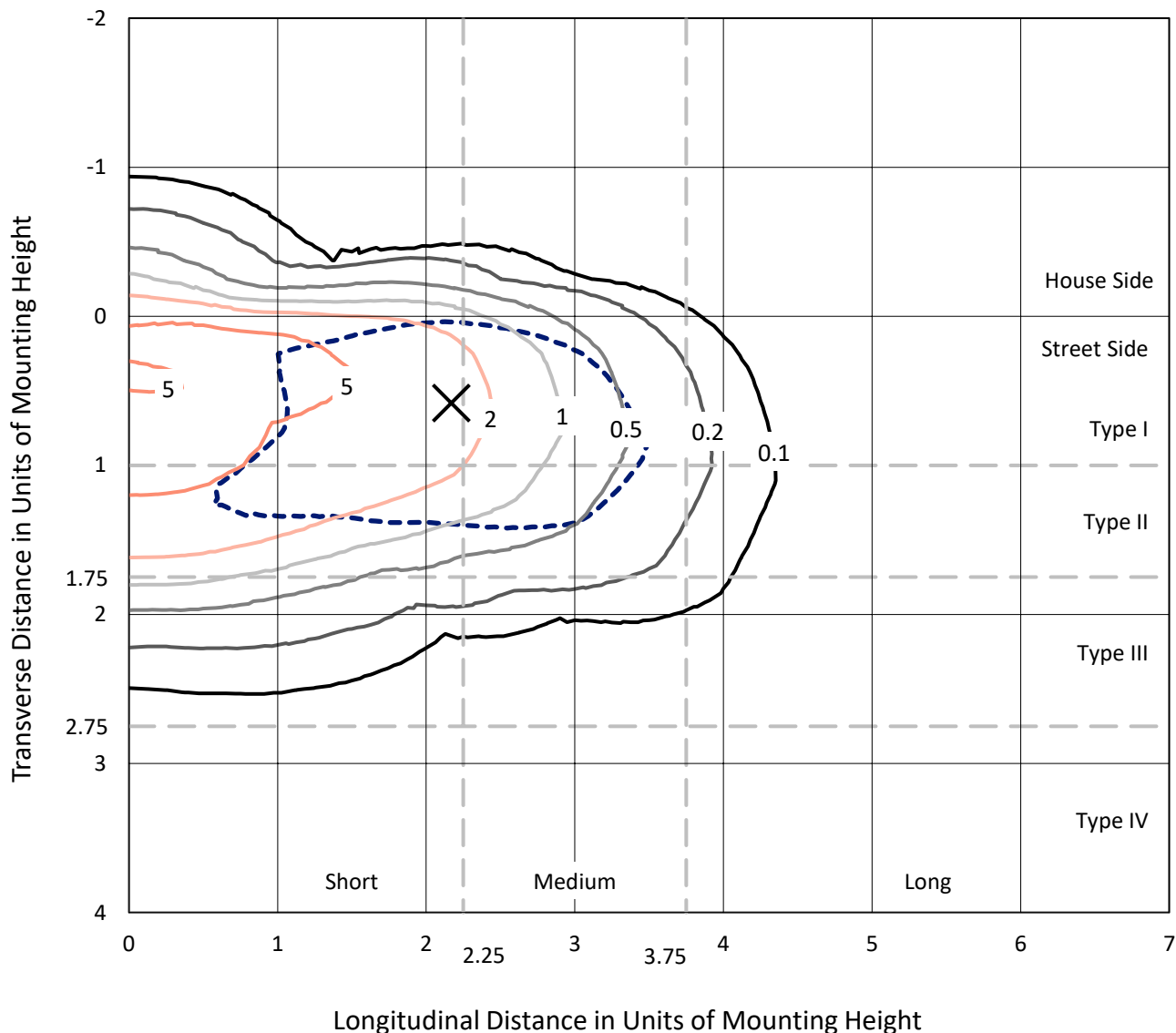
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

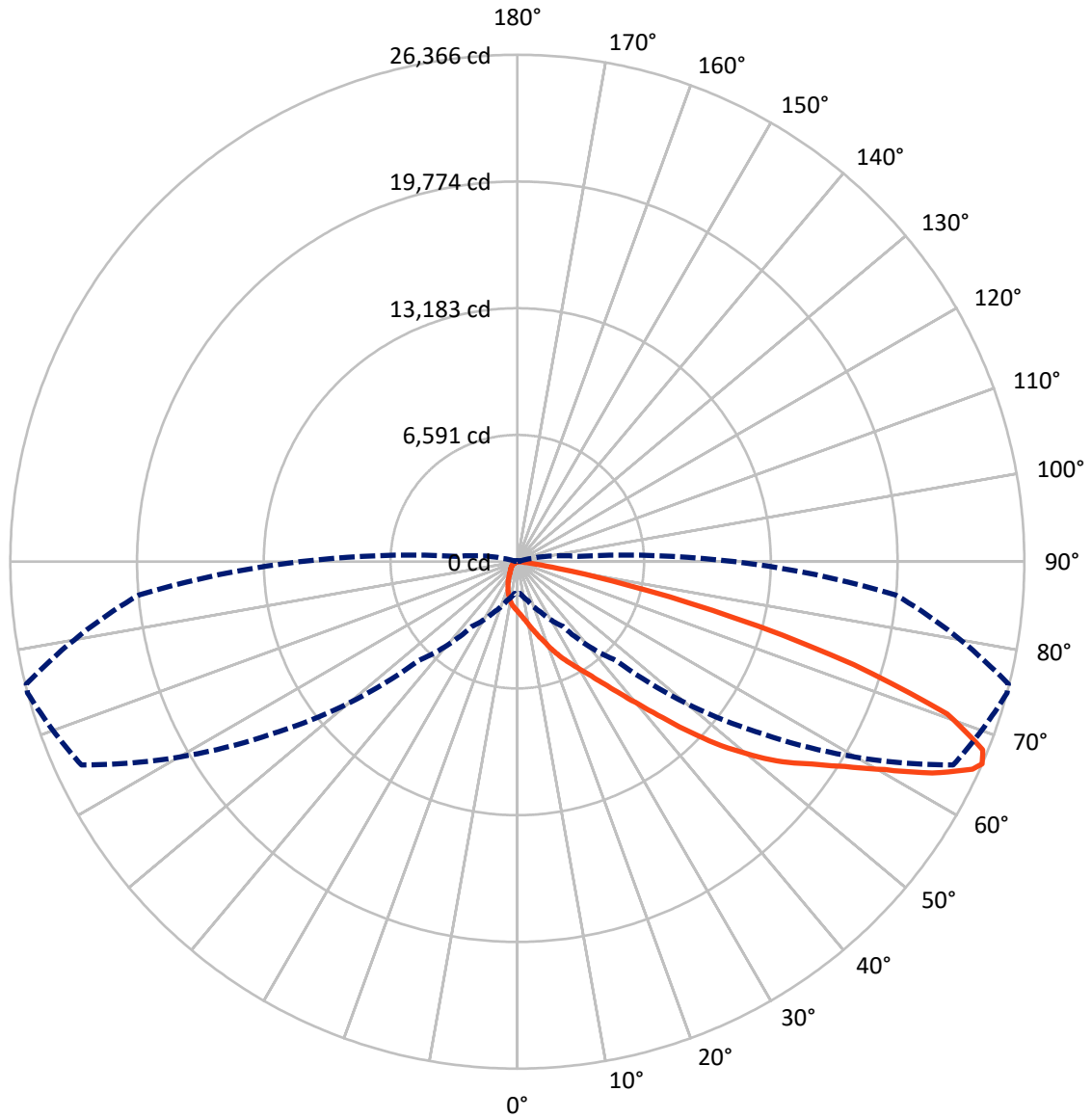
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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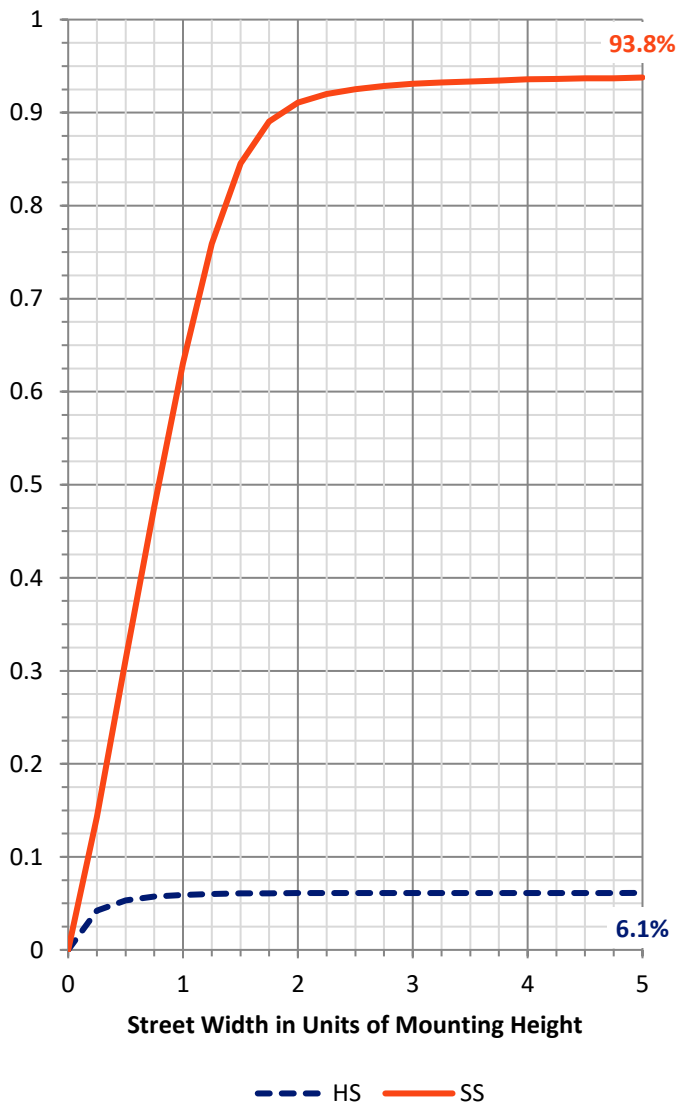
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1453.5	0.0	1453.5
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22090.5	0.0	22090.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	23544.0	0.0	23544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	730.9	3.1
20°-30°	1262.1	5.4
30°-40°	2276.5	9.7
40°-50°	4112.6	17.5
50°-60°	6411.5	27.2
60°-70°	6090.7	25.9
70°-80°	2282.6	9.7
80°-90°	128.8	0.5
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°	23544.0	100.0
0°-180°	23544.0	100.0

Coefficient of Utilization



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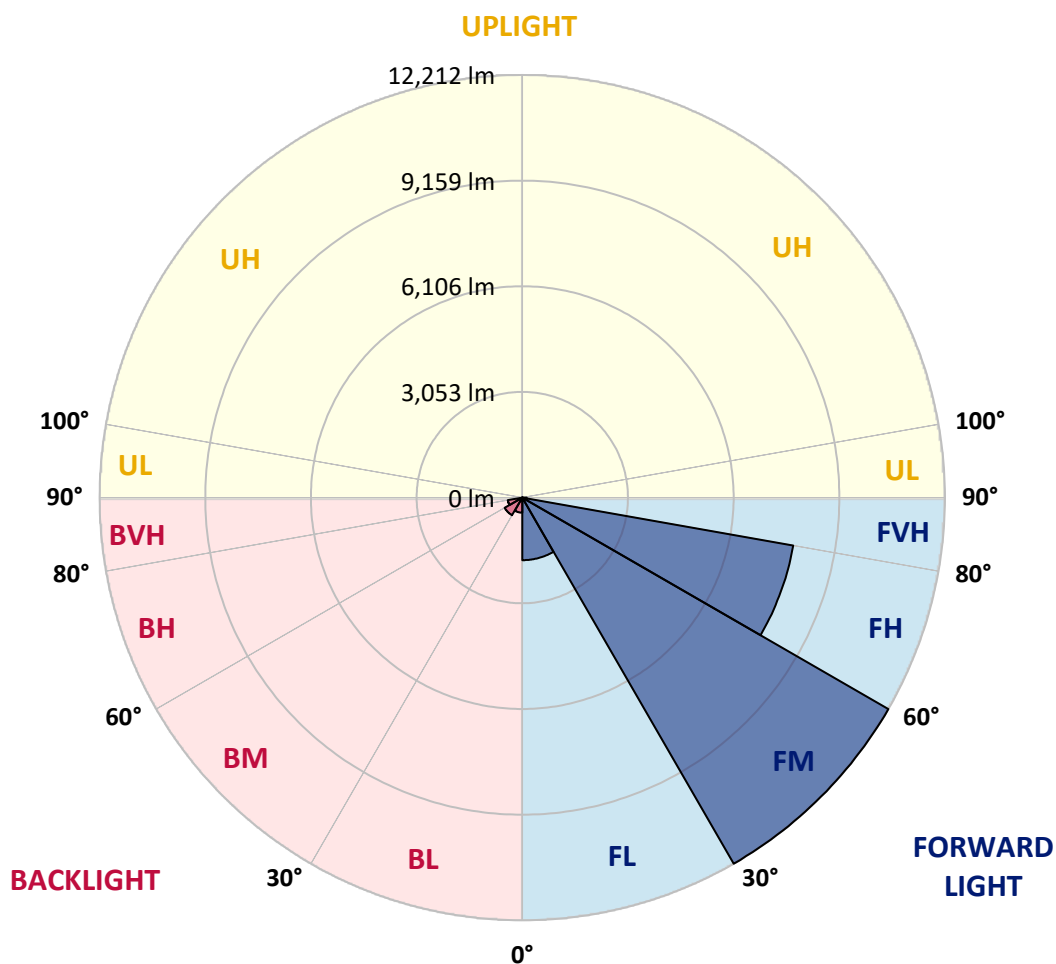
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.2	7.7			
FM (30°-60°)	12212.3	51.9			
FH (60°-80°)	7948.9	33.8			G4/12000
FVH (80°-90°)	122.1	0.5			G2/225
BL (0°-30°)	434.1	1.8	B1/500		
BM (30°-60°)	588.3	2.5	B1/1000		
BH (60°-80°)	424.4	1.8	B1/500		G1/500
BVH (80°-90°)	6.6	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2.5°	3076.1	3037.8	3050.0	3032.6	2992.6	2933.4	2881.2	2806.3	2731.4	2719.3	2635.7
5°	3481.8	3471.3	3457.4	3406.9	3379.1	3288.5	3180.6	3051.8	2896.8	2869.0	2717.5
7.5°	3758.6	3753.3	3760.3	3734.2	3709.8	3628.0	3513.1	3337.3	3097.0	3081.4	2828.9
10°	3849.1	3863.0	3889.1	3930.9	3969.2	3943.1	3856.1	3636.7	3356.4	3311.2	2956.0
12.5°	3796.9	3812.5	3875.2	3986.6	4110.2	4181.6	4146.8	3986.6	3631.5	3594.9	3098.8
15°	3662.8	3682.0	3770.8	3943.1	4164.2	4366.1	4453.2	4338.3	3951.8	3892.6	3271.1
17.5°	3464.4	3492.2	3619.3	3847.4	4150.3	4498.4	4743.9	4705.6	4293.0	4237.3	3459.1
20°	3314.6	3335.5	3443.5	3704.6	4091.1	4571.6	5020.7	5128.6	4714.3	4618.6	3680.2
22.5°	3413.9	3420.8	3457.4	3614.1	3984.9	4590.7	5264.4	5569.1	5161.7	5076.4	3910.0
25°	3899.6	3829.9	3793.4	3758.6	3962.3	4573.3	5485.5	6028.7	5607.4	5516.9	4138.1
27.5°	4665.6	4634.2	4449.7	4202.5	4155.5	4595.9	5631.8	6463.9	6026.9	5929.5	4360.9
30°	5499.5	5445.5	5332.3	4970.2	4606.4	4756.1	5738.0	6886.9	6523.1	6394.3	4564.6
32.5°	6265.4	6300.3	6131.4	5758.8	5337.6	5097.3	5875.5	7348.3	7092.4	6932.2	4801.4
35°	7158.5	7228.2	6968.8	6611.9	6119.2	5713.6	6143.6	7868.8	7814.8	7612.9	5166.9
37.5°	8065.5	8107.3	7948.9	7447.5	7003.6	6497.0	6648.4	8511.2	8704.4	8532.1	5603.9
40°	8828.0	8885.5	8768.8	8323.2	7849.7	7404.0	7381.4	9211.0	9762.9	9585.3	6255.0
42.5°	9411.2	9454.7	9458.2	9143.1	8716.6	8514.7	8316.2	10104.1	11089.4	10884.0	7010.5
45°	10147.6	10210.3	10173.7	9959.6	9641.0	9604.5	9501.8	11183.4	12677.1	12417.7	7990.7
47.5°	11286.2	11327.9	11237.4	10985.0	10661.2	10718.6	10657.7	12393.4	14296.1	14073.3	9005.6
50°	12076.5	12146.2	12275.0	12376.0	12140.9	11928.5	11747.5	13523.2	15833.4	15633.1	10043.2
52.5°	12067.8	12182.7	12590.1	13098.4	13612.0	13547.6	13027.0	14771.4	17300.9	17053.7	11018.1
55°	11254.8	11477.7	12076.5	12978.3	14400.6	15109.1	14872.4	16216.3	18568.3	18401.2	12147.9
57.5°	9576.6	9712.4	10544.5	11804.9	13960.2	15843.8	17010.2	18174.8	20088.1	20009.7	13902.7
60°	6441.3	6502.2	7572.9	9130.9	11885.0	15110.9	18577.0	20544.2	21959.5	21921.2	15951.7
62.5°	3690.7	3716.8	4493.2	5807.6	8457.2	12806.0	18709.3	23467.1	24203.5	24224.4	18322.8
65°	1986.3	2000.3	2627.0	3408.7	5146.1	9127.5	16823.9	25068.7	26017.5	26057.6	19792.1
66°	1714.8	1648.6	2090.8	2905.5	4094.6	7264.7	15631.4	25011.3	26365.7	26322.2	19739.9
67.5°	1303.9	1363.1	1669.5	2233.6	3034.4	5165.2	12905.2	23898.9	26101.1	25965.3	18937.3
70°	933.1	957.5	1189.0	1592.9	2066.4	2834.2	8246.6	19849.6	23723.0	23540.2	16498.4
72.5°	602.3	628.5	842.6	1152.5	1493.7	1547.6	4616.8	14341.4	18289.7	18263.6	12424.7
75°	430.0	454.4	557.1	825.2	1122.9	957.5	2223.1	9665.4	11627.4	11549.0	7686.0
77.5°	311.6	323.8	372.5	539.7	802.5	685.9	1030.6	5161.7	5788.4	6061.8	3396.5
80°	179.3	189.8	259.4	329.0	543.2	468.3	492.7	2071.7	2136.1	2033.4	1061.9
82.5°	88.8	101.0	154.9	224.6	339.5	315.1	226.3	623.2	658.1	640.6	268.1
85°	20.9	26.1	87.0	148.0	165.4	141.0	109.7	182.8	226.3	221.1	102.7
87.5°	1.7	3.5	31.3	26.1	27.9	47.0	38.3	47.0	73.1	67.9	36.6
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°	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8	2574.8
2.5°	2597.4	2564.3	2468.6	2374.6	2296.2	2214.4	2139.5	2096.0	2078.6	2059.5	2068.2
5°	2634.0	2553.9	2360.6	2193.5	2029.9	1890.6	1779.2	1707.8	1673.0	1667.8	1659.1
7.5°	2682.7	2545.2	2245.7	1984.6	1770.5	1615.5	1488.5	1385.7	1354.4	1326.6	1303.9
10°	2741.9	2529.5	2103.0	1765.3	1537.2	1342.2	1175.1	1053.2	990.6	973.2	985.3
12.5°	2804.6	2499.9	1953.3	1563.3	1300.4	1051.5	896.6	835.6	818.2	811.3	813.0
15°	2867.2	2463.4	1796.6	1368.3	1035.8	839.1	767.7	752.1	745.1	741.6	738.1
17.5°	2924.7	2404.2	1620.8	1178.6	839.1	717.2	691.1	677.2	663.3	658.1	649.4
20°	2992.6	2336.3	1462.3	966.2	710.3	649.4	618.0	591.9	571.0	557.1	555.3
22.5°	3057.0	2249.2	1297.0	800.8	647.6	583.2	532.7	504.9	480.5	463.1	468.3
25°	3091.8	2143.0	1149.0	698.1	590.2	517.0	461.3	426.5	400.4	391.7	390.0
27.5°	3091.8	2012.5	1004.5	638.9	537.9	457.9	400.4	367.3	349.9	337.7	339.5
30°	3067.4	1868.0	870.4	593.6	492.7	405.6	351.7	322.1	308.1	299.4	297.7
32.5°	3048.3	1730.4	755.5	550.1	445.7	360.4	313.4	290.7	276.8	268.1	268.1
35°	3077.9	1612.1	666.8	506.6	402.1	325.5	283.8	262.9	248.9	242.0	240.2
37.5°	3156.2	1504.1	598.9	459.6	362.1	296.0	262.9	238.5	224.6	215.9	212.4
40°	3349.5	1443.2	548.4	416.1	323.8	271.6	238.5	215.9	198.5	189.8	188.0
42.5°	3659.3	1444.9	499.6	376.0	294.2	250.7	217.6	191.5	172.3	163.6	161.9
45°	4125.9	1511.1	461.3	337.7	268.1	228.1	195.0	167.1	149.7	141.0	141.0
47.5°	4684.7	1639.9	428.3	304.7	243.7	207.2	172.3	144.5	127.1	120.1	120.1
50°	5290.5	1807.0	395.2	269.8	222.8	184.5	148.0	125.3	111.4	106.2	106.2
52.5°	5908.6	2009.0	362.1	242.0	200.2	160.2	127.1	111.4	99.2	95.7	94.0
55°	6719.8	2266.6	327.3	212.4	175.8	137.5	113.2	97.5	83.6	78.3	76.6
57.5°	7968.0	2654.8	289.0	186.3	144.5	114.9	97.5	81.8	66.2	57.4	55.7
60°	9473.9	3128.4	248.9	163.6	116.6	94.0	78.3	62.7	48.7	38.3	36.6
62.5°	10884.0	3429.5	210.6	137.5	92.3	71.4	55.7	47.0	34.8	24.4	22.6
65°	11507.3	3328.6	174.1	111.4	73.1	50.5	36.6	33.1	20.9	10.4	8.7
66°	11300.1	3178.9	160.2	101.0	66.2	43.5	31.3	27.9	15.7	5.2	5.2
67.5°	10689.0	2825.5	139.3	87.0	57.4	34.8	24.4	20.9	8.7	1.7	0.0
70°	9158.8	2285.8	109.7	64.4	41.8	24.4	13.9	10.4	5.2	0.0	0.0
72.5°	7034.9	1702.6	87.0	48.7	29.6	13.9	7.0	3.5	5.2	0.0	0.0
75°	4310.4	973.2	67.9	36.6	19.1	8.7	5.2	0.0	5.2	1.7	0.0
77.5°	1913.2	437.0	45.3	24.4	13.9	7.0	3.5	0.0	3.5	1.7	0.0
80°	484.0	142.8	26.1	17.4	10.4	5.2	1.7	0.0	3.5	3.5	1.7
82.5°	132.3	52.2	19.1	13.9	8.7	5.2	1.7	0.0	3.5	3.5	3.5
85°	52.2	24.4	17.4	13.9	10.4	5.2	1.7	0.0	3.5	3.5	3.5
87.5°	24.4	17.4	17.4	15.7	12.2	5.2	1.7	0.0	3.5	1.7	3.5
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)