

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: P321461

Luminaire Tested: **GAN-SA7D-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA 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: 35202 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 448
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

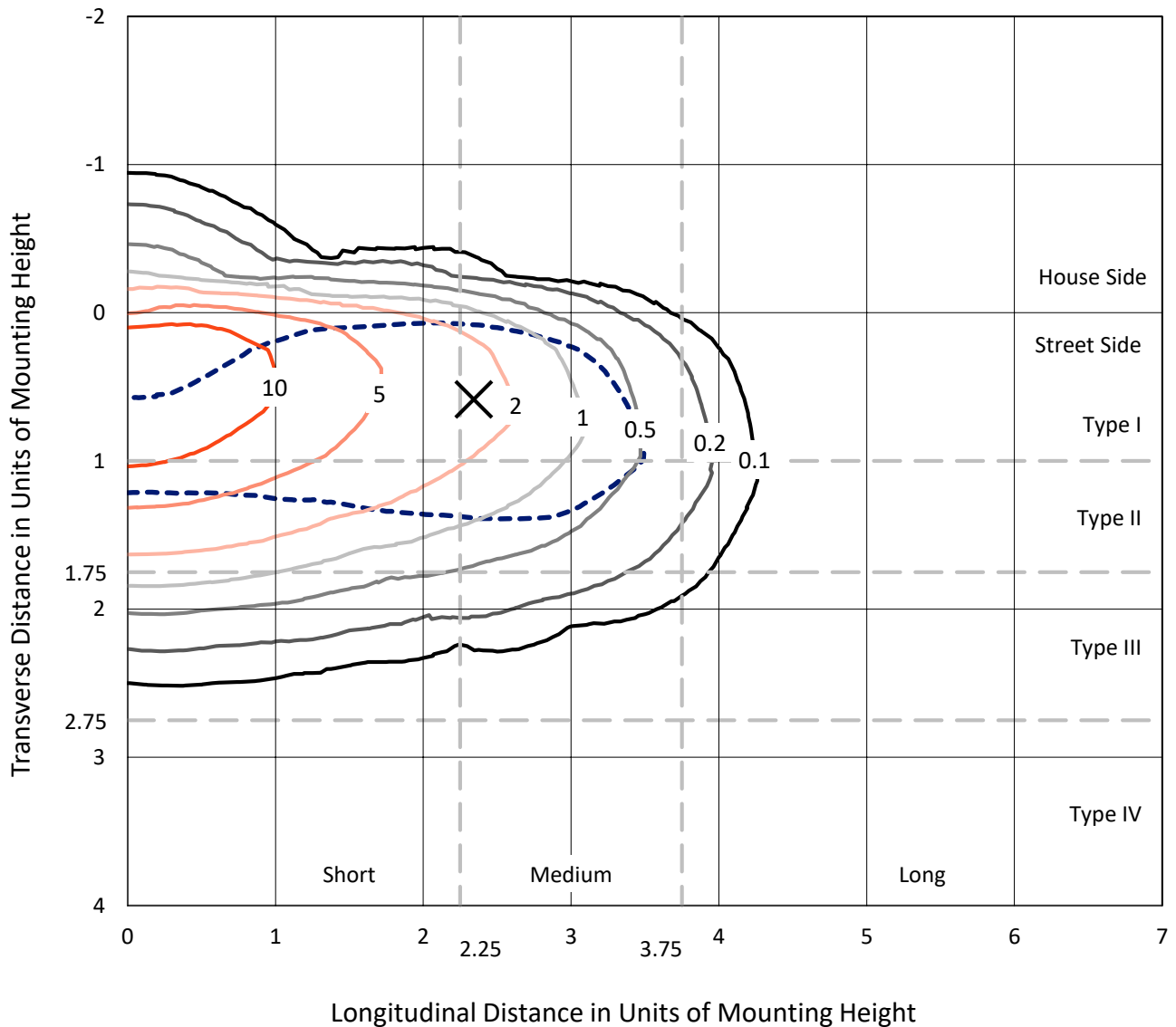




REPORT NUMBER: P321461
 CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

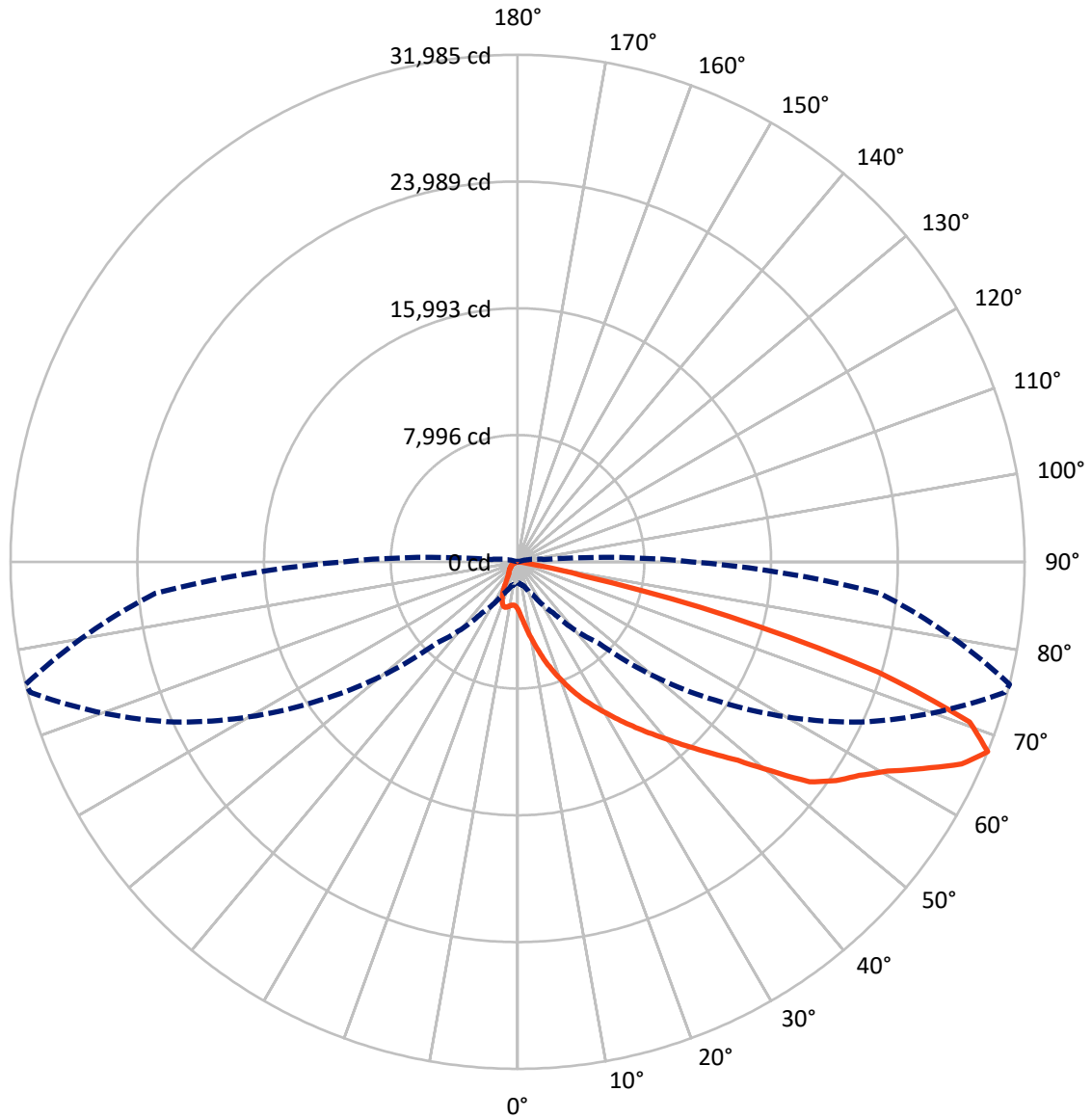
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P321461
CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P321461
 CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

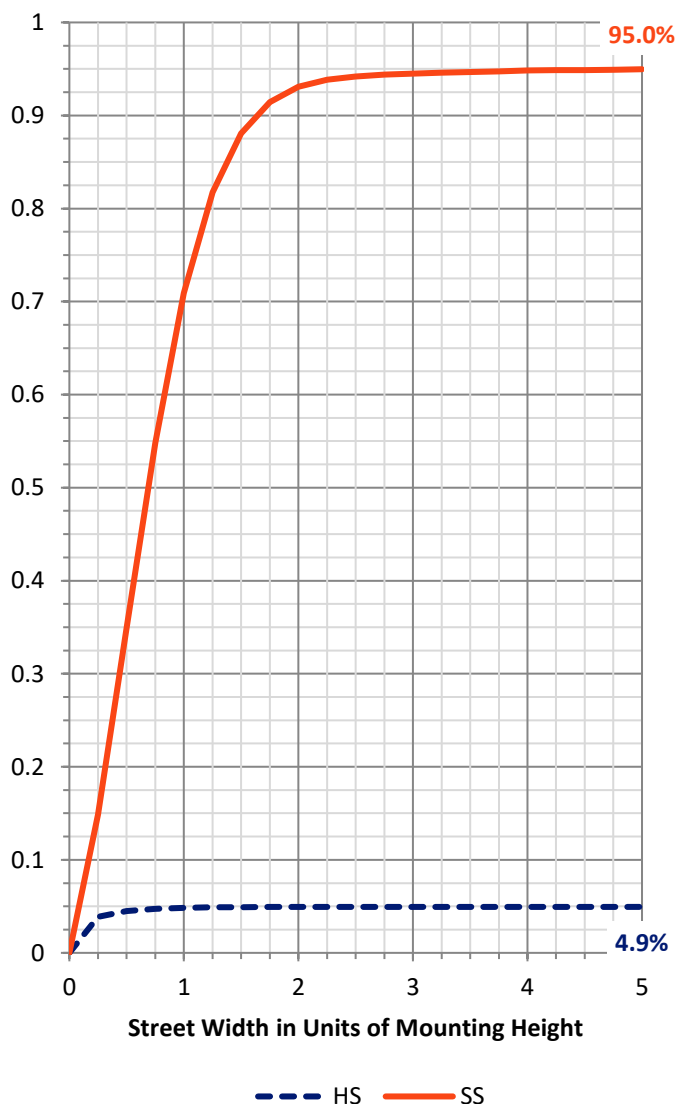
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.0	0.0	1748.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	33454.0	0.0	33454.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	35202.0	0.0	35202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.3	1.1
10°-20°	1472.0	4.2
20°-30°	2995.0	8.5
30°-40°	5198.3	14.8
40°-50°	7344.6	20.9
50°-60°	8329.1	23.7
60°-70°	6908.2	19.6
70°-80°	2502.4	7.1
80°-90°	81.2	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°	35202.0	100.0
0°-180°	35202.0	100.0

Coefficient of Utilization

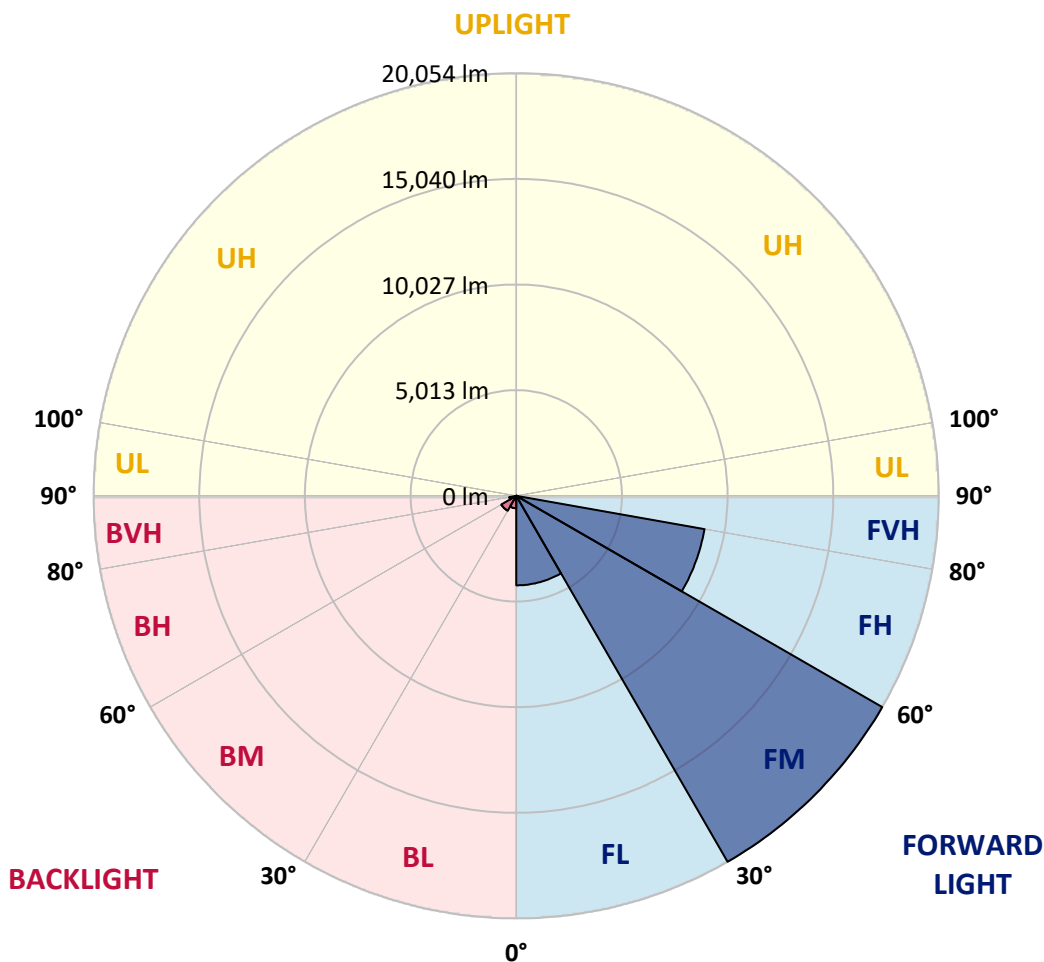


REPORT NUMBER: P321461
 CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4248.8	12.1			
FM (30°-60°)	20053.9	57.0			
FH (60°-80°)	9072.7	25.8			G4/12000
FVH (80°-90°)	78.6	0.2			G1/100
BL (0°-30°)	589.5	1.7	B2/1000		
BM (30°-60°)	818.1	2.3	B1/1000		
BH (60°-80°)	337.8	1.0	B1/500		G1/500
BVH (80°-90°)	2.6	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 II Medium





REPORT NUMBER: P321461

CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1
2.5°	4457.6	4357.4	4380.5	4315.7	4198.5	3957.9	3752.7	3558.4	3331.7	3323.9	3137.3
5°	6010.9	5926.0	5915.2	5784.1	5571.3	5162.5	4764.6	4311.1	3805.2	3768.2	3371.8
7.5°	7420.6	7352.8	7328.1	7172.3	6775.9	6378.0	5859.7	5193.4	4402.1	4334.2	3688.0
10°	8503.4	8471.0	8477.2	8366.2	8026.8	7656.6	6976.4	6126.5	5079.2	4974.3	4067.4
12.5°	9324.0	9331.7	9387.2	9319.4	9129.7	8855.1	8128.6	7121.4	5828.9	5685.4	4500.8
15°	9927.1	9965.7	10067.5	10152.3	10138.4	9900.9	9234.5	8131.7	6624.7	6465.9	4983.6
17.5°	10317.3	10360.5	10508.6	10696.8	10869.5	10814.0	10301.9	9106.5	7429.9	7246.3	5500.3
20°	10659.8	10710.7	10869.5	11117.9	11440.2	11509.6	11173.4	10052.0	8233.5	8009.9	6034.0
22.5°	11401.7	11400.1	11497.3	11642.3	11949.2	12128.1	11915.3	10929.7	9027.9	8794.9	6578.5
25°	12743.6	12692.7	12658.7	12544.6	12612.5	12723.5	12604.8	11750.3	9826.8	9590.8	7130.7
27.5°	14338.5	14369.3	14094.7	13787.8	13550.3	13436.1	13241.8	12510.7	10595.0	10335.8	7670.5
30°	16021.2	16030.5	15706.6	15314.8	14791.9	14358.5	14022.3	13237.2	11384.7	11102.4	8194.9
32.5°	17539.0	17478.8	17158.0	16624.3	15964.2	15476.8	14778.0	14048.5	12220.7	11947.7	8778.0
35°	18742.1	18671.1	18280.9	17795.0	17110.2	16619.7	15779.1	14858.3	13099.9	12833.0	9362.6
37.5°	19621.3	19538.0	19137.0	18637.2	18046.5	17761.1	16940.5	15739.0	14059.3	13772.4	9978.0
40°	19926.7	19854.2	19602.8	19237.2	18762.1	18697.4	18172.9	16752.4	15103.5	14798.1	10675.2
42.5°	19744.7	19673.7	19584.3	19460.9	19263.4	19325.1	19335.9	17907.6	16263.4	15962.6	11444.8
45°	19022.8	18959.6	19052.1	19232.6	19477.8	19783.2	20397.1	19149.3	17559.1	17238.2	12334.8
47.5°	17960.1	17913.8	18169.9	18620.2	19337.5	20179.6	21367.3	20454.2	19013.6	18715.9	13445.4
50°	16448.5	16440.8	16952.9	17775.0	18877.8	20370.9	22369.9	21938.0	21034.2	20721.0	14989.4
52.5°	14094.7	14110.2	15117.4	16433.1	18071.1	20241.3	23014.6	23844.5	23384.8	23059.4	16326.6
55°	11853.6	11946.1	12660.3	14557.5	16834.1	19760.1	23236.7	24734.4	24682.0	24373.5	17070.1
57.5°	9658.7	9826.8	10514.8	12287.0	15027.9	18651.1	23114.9	25120.1	25647.6	25411.6	18051.1
60°	7280.3	7357.4	8150.2	9806.8	12709.6	16627.4	22231.1	25329.8	26967.9	26804.4	19474.8
62.5°	4631.9	4824.7	5528.1	7126.0	9896.2	13817.1	20741.1	25326.7	28619.8	28709.3	21311.8
65°	2440.1	2665.3	3038.6	4416.0	6800.6	10678.3	18499.9	25089.2	30646.6	30771.5	22747.8
67.5°	1315.7	1380.5	1577.9	2292.1	3944.0	7234.0	15206.8	23917.0	31820.4	31985.4	22948.3
70°	962.5	998.0	1072.0	1267.9	1985.1	4201.6	11096.3	21259.3	30307.3	30245.6	20389.4
72.5°	738.8	794.4	849.9	928.5	1141.4	2242.7	6908.6	16647.5	24182.3	23775.1	15240.8
75°	583.0	592.3	671.0	741.9	856.0	1277.1	3067.9	9695.7	14759.5	13795.5	7903.4
77.5°	465.8	472.0	518.3	580.0	687.9	839.1	950.1	3814.4	4712.1	4204.7	1715.2
80°	276.1	291.5	385.6	447.3	570.7	529.1	347.0	828.3	735.7	666.3	288.4
82.5°	154.2	166.6	217.5	353.2	397.9	253.0	172.8	223.7	172.8	168.1	81.7
85°	0.0	7.7	140.4	219.0	162.0	55.5	72.5	74.0	50.9	47.8	32.4
87.5°	0.0	0.0	43.2	41.6	6.2	9.3	17.0	24.7	20.1	20.1	17.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321461

CATALOG NUMBER: GAN-SA7D-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1	2986.1
2.5°	3044.8	2961.5	2804.1	2649.9	2520.3	2413.9	2318.3	2279.7	2248.9	2244.2	2219.6
5°	3180.5	3012.4	2711.6	2464.8	2299.8	2182.5	2082.3	2020.6	1972.8	1954.3	1937.3
7.5°	3385.6	3131.1	2699.3	2415.4	2218.0	2020.6	1835.5	1635.0	1510.0	1462.2	1434.5
10°	3635.5	3288.5	2745.5	2401.6	2056.1	1639.6	1332.7	1078.2	974.8	940.9	931.6
12.5°	3927.0	3484.4	2825.7	2315.2	1710.6	1164.5	919.3	832.9	809.8	799.0	799.0
15°	4261.7	3698.8	2882.8	2065.3	1264.8	880.7	795.9	755.8	731.1	717.2	718.8
17.5°	4604.2	3908.5	2855.0	1702.8	933.2	783.6	720.3	677.1	643.2	629.3	626.2
20°	4949.7	4102.9	2700.8	1267.9	789.7	711.1	640.1	592.3	558.4	544.5	541.4
22.5°	5307.5	4267.9	2429.3	930.1	709.5	630.9	561.4	513.6	481.2	468.9	462.7
25°	5656.1	4402.1	2049.9	752.7	633.9	555.3	489.0	444.2	414.9	402.6	401.0
27.5°	5981.6	4486.9	1610.3	664.8	567.6	487.4	427.3	387.2	362.5	353.2	351.7
30°	6274.6	4494.6	1190.8	600.0	509.0	428.8	373.3	337.8	316.2	306.9	303.9
32.5°	6570.8	4429.9	866.8	541.4	455.0	377.9	323.9	296.1	280.7	273.0	273.0
35°	6849.9	4280.2	675.6	490.5	402.6	328.5	285.3	265.3	256.0	248.3	248.3
37.5°	7123.0	4065.9	573.8	445.8	353.2	286.9	251.4	239.1	231.4	223.7	223.7
40°	7400.6	3795.9	521.3	404.1	313.1	254.5	223.7	212.9	205.1	199.0	197.4
42.5°	7741.5	3484.4	487.4	365.6	277.6	225.2	197.4	185.1	178.9	172.8	169.7
45°	8136.3	3216.0	459.6	327.0	248.3	200.5	171.2	158.9	149.6	141.9	140.4
47.5°	8705.5	3021.6	422.6	285.3	220.6	174.3	148.1	134.2	120.3	112.6	111.1
50°	9432.0	2861.2	374.8	248.3	192.8	148.1	123.4	106.4	94.1	86.4	86.4
52.5°	9792.9	2651.4	331.6	215.9	162.0	124.9	100.3	80.2	74.0	66.3	66.3
55°	9937.9	2491.0	288.4	183.5	134.2	103.3	78.7	61.7	57.1	52.4	50.9
57.5°	10345.1	2444.8	251.4	155.8	111.1	81.7	60.2	46.3	43.2	37.0	37.0
60°	11000.6	2467.9	217.5	132.6	89.5	63.2	44.7	35.5	32.4	26.2	26.2
62.5°	11708.6	2438.6	183.5	114.1	69.4	46.3	30.8	26.2	26.2	15.4	13.9
65°	11844.3	2171.7	157.3	94.1	54.0	33.9	20.1	17.0	23.1	3.1	0.0
67.5°	10992.9	1684.3	135.7	72.5	40.1	26.2	15.4	7.7	20.1	0.0	0.0
70°	8790.3	1070.4	109.5	52.4	30.8	21.6	12.3	3.1	15.4	0.0	0.0
72.5°	6216.0	621.6	86.4	37.0	26.2	17.0	9.3	0.0	9.3	0.0	0.0
75°	3143.5	331.6	54.0	27.8	20.1	12.3	6.2	0.0	1.5	0.0	0.0
77.5°	680.2	154.2	33.9	20.1	13.9	7.7	3.1	0.0	0.0	0.0	0.0
80°	148.1	67.9	21.6	12.3	7.7	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	54.0	35.5	10.8	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.3	18.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	6.2	1.5	1.5	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)