

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: P383596

Luminaire Tested: **GAN-SA8D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383596
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-SA8D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 46756.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 511
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

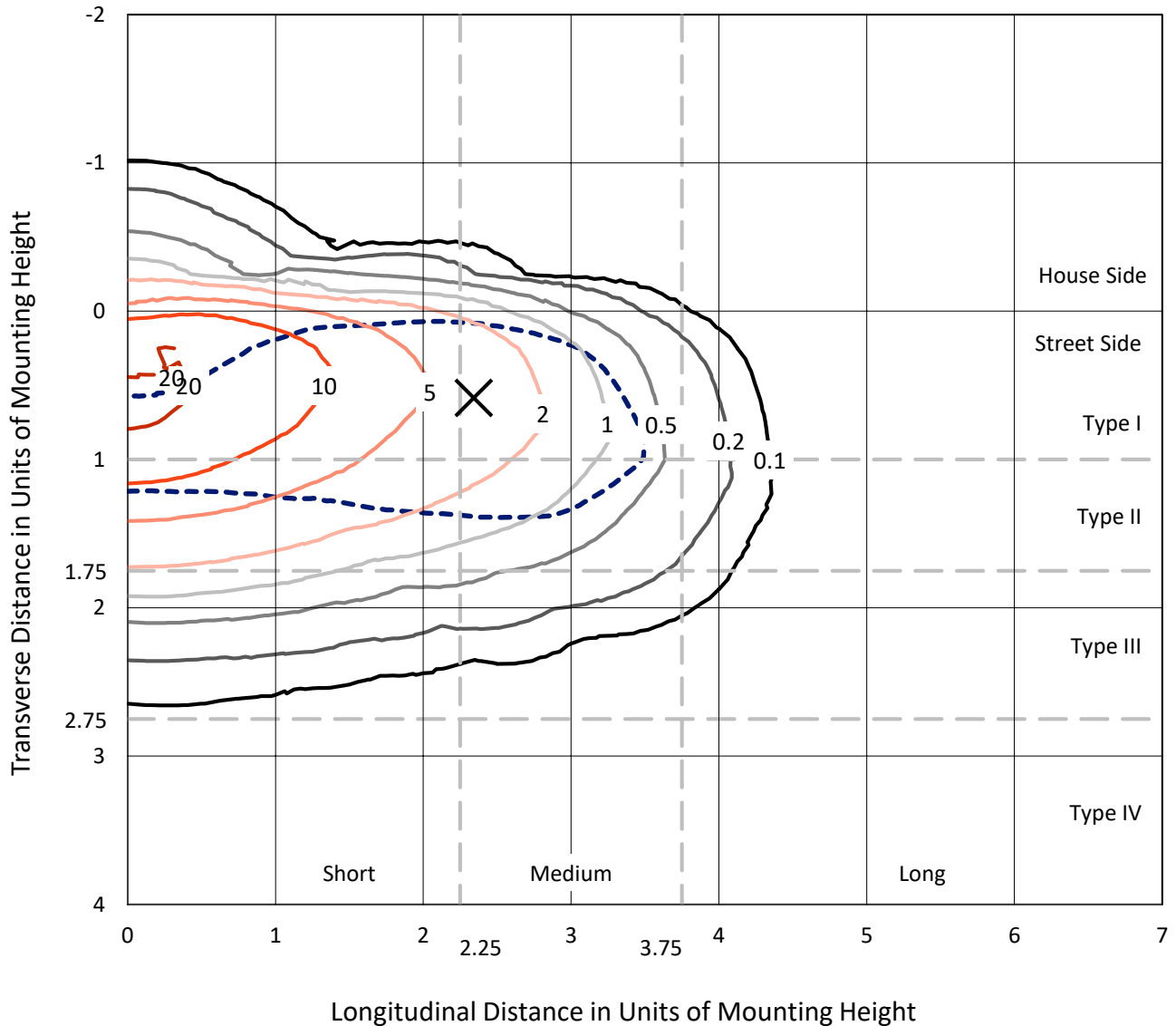




REPORT NUMBER: P383596
 CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

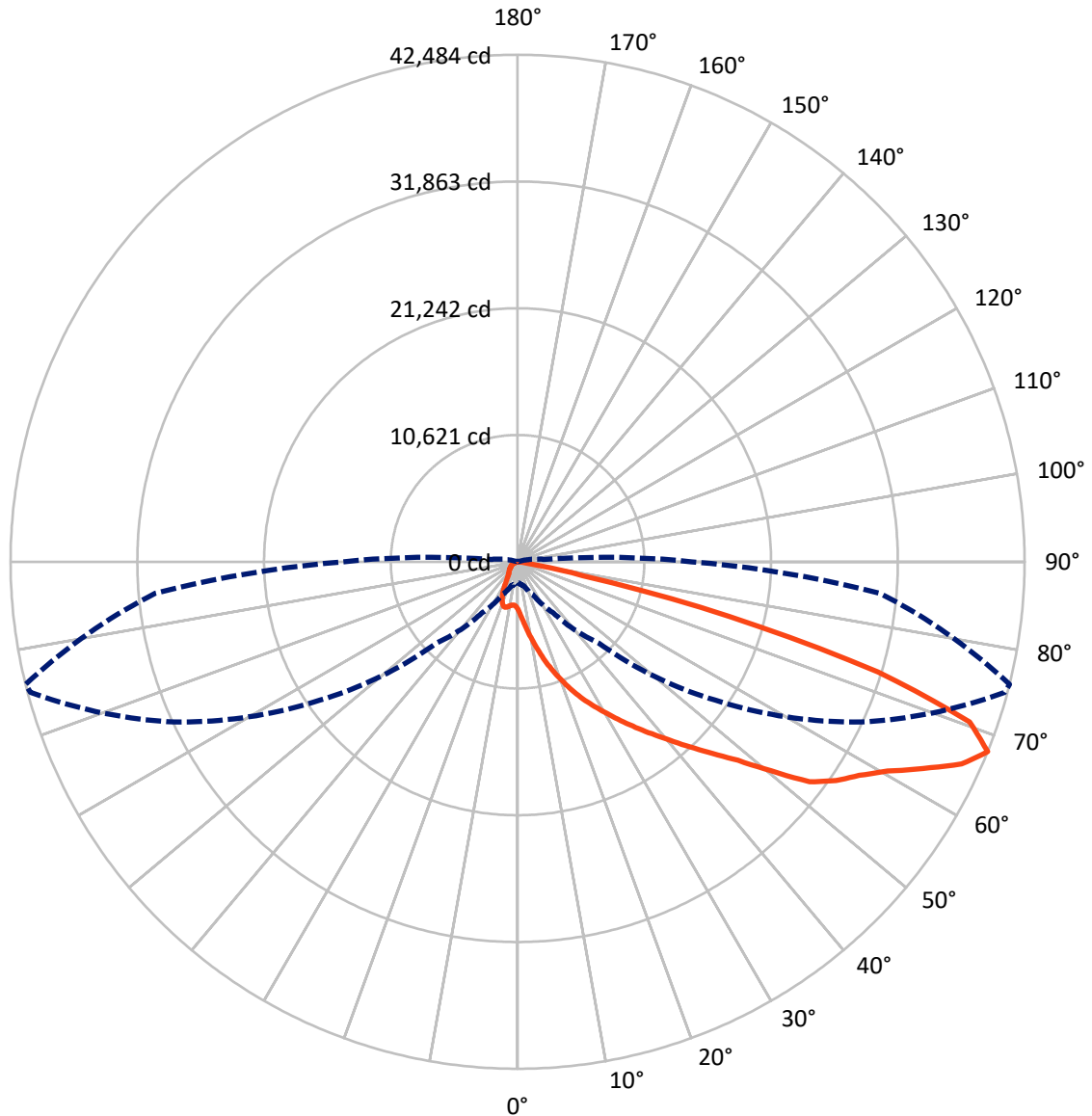
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P383596
CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383596
 CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

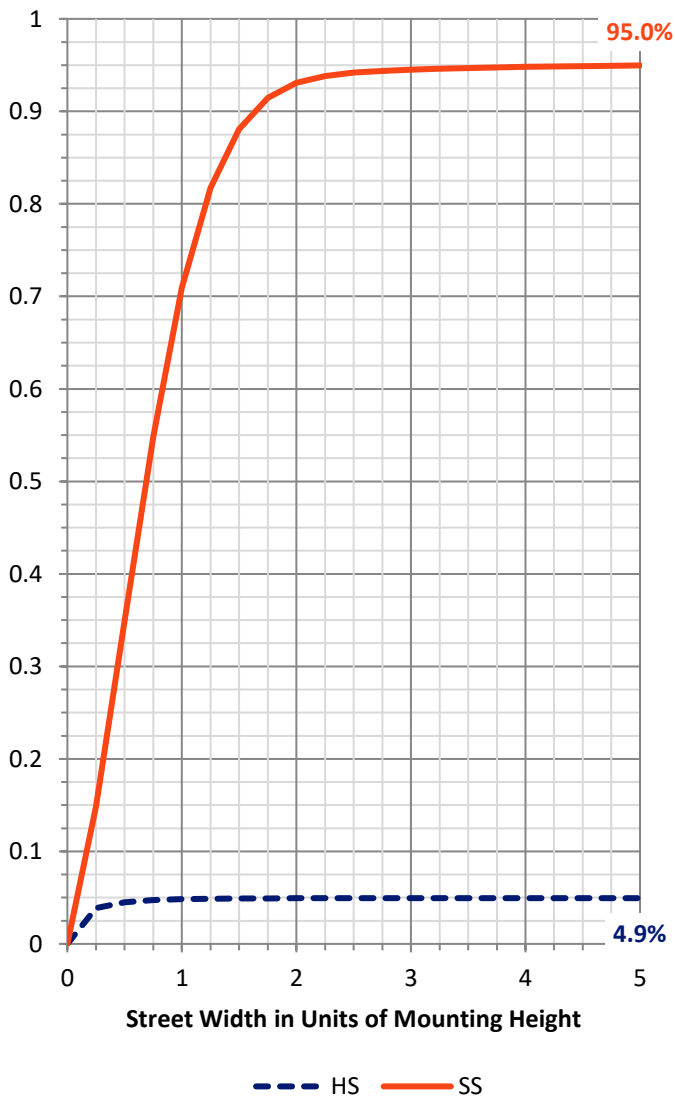
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.8	0.0	2321.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	44434.4	0.0	44434.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	46756.2	0.0	46756.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.1
10°-20°	1955.1	4.2
20°-30°	3978.0	8.5
30°-40°	6904.6	14.8
40°-50°	9755.3	20.9
50°-60°	11062.9	23.7
60°-70°	9175.7	19.6
70°-80°	3323.7	7.1
80°-90°	107.8	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°	46756.2	100.0
0°-180°	46756.2	100.0

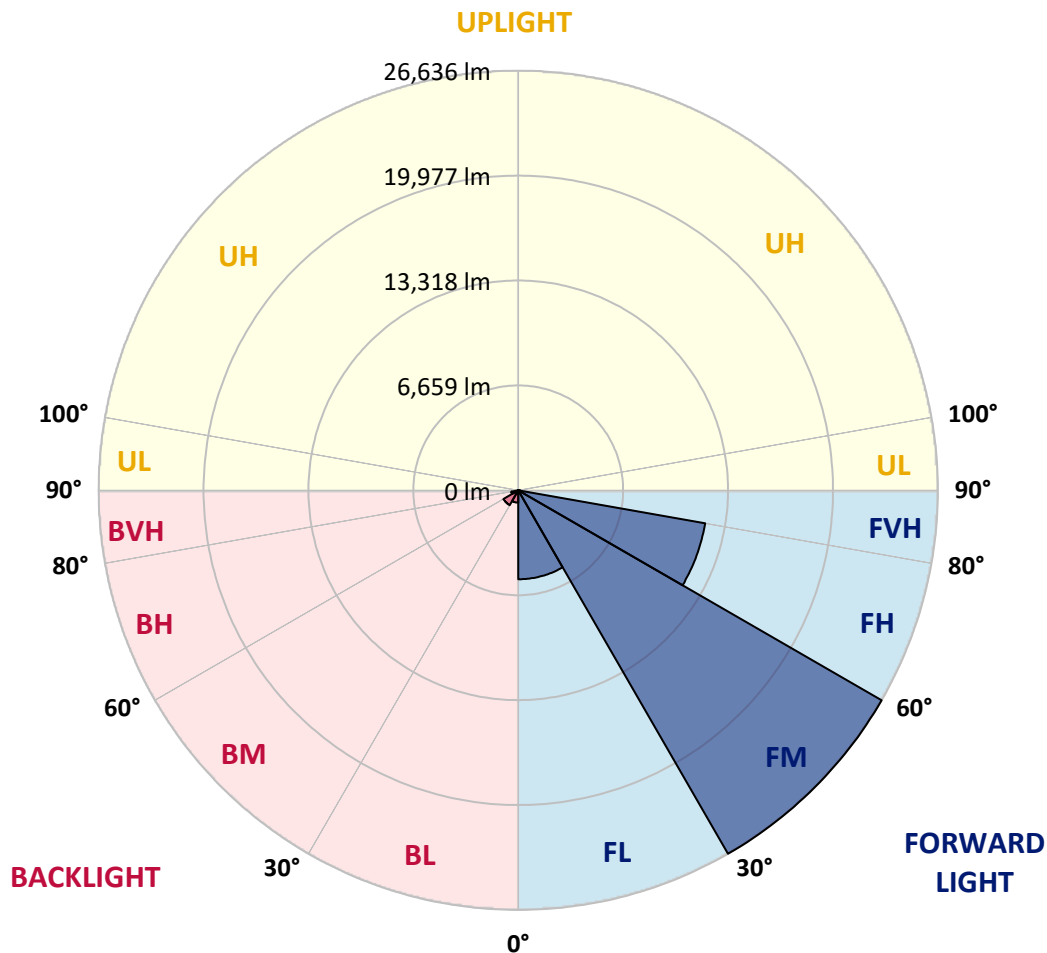


REPORT NUMBER: P383596
 CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5643.3	12.1			
FM (30°-60°)	26636.1	57.0			
FH (60°-80°)	12050.6	25.8			G5
FVH (80°-90°)	104.4	0.2			G2/225
BL (0°-30°)	783.0	1.7	B2/1000		
BM (30°-60°)	1086.7	2.3	B2/2500		
BH (60°-80°)	448.7	1.0	B1/500		G1/500
BVH (80°-90°)	3.4	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-G5
 Type II Medium





REPORT NUMBER: P383596

CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3
2.5°	5920.7	5787.6	5818.4	5732.3	5576.5	5257.0	4984.5	4726.4	4425.2	4415.0	4167.1
5°	7983.8	7871.1	7856.8	7682.7	7399.9	6857.0	6328.5	5726.1	5054.1	5005.0	4478.4
7.5°	9856.3	9766.2	9733.4	9526.5	9000.0	8471.4	7783.0	6898.0	5847.0	5756.9	4898.4
10°	11294.5	11251.4	11259.6	11112.2	10661.5	10169.7	9266.3	8137.4	6746.4	6607.1	5402.4
12.5°	12384.4	12394.6	12468.4	12378.2	12126.2	11761.6	10796.6	9458.8	7742.0	7551.5	5978.1
15°	13185.4	13236.6	13371.9	13484.5	13466.1	13150.6	12265.6	10800.7	8799.2	8588.1	6619.4
17.5°	13703.7	13761.1	13957.8	14207.8	14437.2	14363.4	13683.2	12095.5	9868.6	9624.7	7305.7
20°	14158.6	14226.1	14437.2	14767.0	15195.2	15287.4	14840.8	13351.4	10936.0	10638.9	8014.5
22.5°	15144.0	15141.9	15271.0	15463.6	15871.2	16109.0	15826.2	14517.1	11991.1	11681.7	8737.7
25°	16926.3	16858.8	16813.7	16662.0	16752.2	16899.8	16742.0	15607.0	13052.3	12738.8	9471.1
27.5°	19044.7	19085.7	18721.0	18313.3	17997.9	17846.2	17588.1	16617.0	14072.5	13728.3	10188.1
30°	21279.8	21292.1	20861.9	20341.6	19647.0	19071.4	18624.7	17581.9	15121.4	14746.6	10884.8
32.5°	23295.8	23215.8	22789.8	22080.8	21204.1	20556.6	19628.6	18659.6	16231.8	15869.2	11659.2
35°	24893.7	24799.5	24281.2	23635.9	22726.2	22074.7	20958.2	19735.1	17399.6	17045.2	12435.6
37.5°	26061.5	25950.9	25418.2	24754.5	23969.7	23590.8	22500.9	20905.0	18673.9	18292.8	13253.0
40°	26467.1	26370.9	26036.9	25551.4	24920.4	24834.3	24137.8	22250.9	20060.9	19655.2	14179.1
42.5°	26225.4	26131.1	26012.3	25848.5	25586.3	25668.1	25682.5	23785.4	21601.5	21202.0	15201.4
45°	25266.6	25182.6	25305.6	25545.3	25870.9	26276.6	27092.0	25434.6	23322.4	22896.2	16383.4
47.5°	23855.1	23793.6	24133.7	24731.9	25684.5	26803.1	28380.6	27167.8	25254.3	24858.9	17858.5
50°	21847.3	21837.1	22517.3	23609.2	25074.0	27057.2	29712.3	29138.6	27938.1	27522.2	19909.2
52.5°	18721.0	18741.5	20079.3	21826.8	24002.5	26885.1	30568.6	31670.8	31060.3	30628.1	21685.5
55°	15744.3	15867.1	16815.7	19335.7	22359.5	26245.9	30863.7	32853.0	32783.3	32373.5	22672.9
57.5°	12829.0	13052.3	13965.9	16320.0	19960.5	24772.9	30701.9	33365.1	34065.8	33752.3	23975.9
60°	9669.8	9772.3	10825.3	13025.6	16881.3	22084.9	29527.9	33643.8	35819.5	35602.4	25866.8
62.5°	6152.2	6408.3	7342.6	9465.0	13144.4	18352.2	27548.8	33639.7	38013.7	38132.4	28306.8
65°	3241.0	3540.2	4035.9	5865.4	9032.8	14183.2	24572.1	33324.2	40705.6	40871.6	30214.2
67.5°	1747.6	1833.6	2095.8	3044.4	5238.6	9608.4	20198.1	31767.2	42264.7	42483.9	30480.5
70°	1278.4	1325.5	1423.9	1684.1	2636.7	5580.6	14738.4	28237.3	40254.9	40173.0	27081.8
72.5°	981.3	1055.1	1128.8	1233.3	1516.0	2978.8	9176.1	22111.6	32119.5	31578.6	20243.2
75°	774.4	786.7	891.2	985.4	1137.0	1696.3	4074.9	12878.1	19604.0	18323.5	10497.5
77.5°	618.7	626.9	688.3	770.3	913.8	1114.5	1262.0	5066.4	6258.8	5584.7	2278.2
80°	366.8	387.2	512.2	594.1	758.0	702.7	460.9	1100.2	977.2	885.1	383.1
82.5°	204.8	221.2	288.9	469.1	528.6	336.0	229.4	297.1	229.4	223.3	108.6
85°	0.0	10.2	186.4	290.9	215.1	73.8	96.3	98.4	67.6	63.5	43.0
87.5°	0.0	0.0	57.4	55.3	8.2	12.3	22.5	32.8	26.6	26.6	22.5
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: P383596
 CATALOG NUMBER: GAN-SA8D-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3	3966.3
2.5°	4044.1	3933.5	3724.5	3519.7	3347.6	3206.2	3079.2	3028.0	2987.0	2980.9	2948.1
5°	4224.4	4001.1	3601.6	3273.8	3054.6	2898.9	2765.8	2683.8	2620.3	2595.7	2573.1
7.5°	4496.9	4158.9	3585.2	3208.2	2946.0	2683.8	2438.0	2171.6	2005.7	1942.2	1905.3
10°	4828.8	4367.8	3646.7	3189.8	2730.9	2177.8	1770.0	1432.1	1294.8	1249.7	1237.4
12.5°	5216.0	4628.0	3753.2	3075.1	2272.0	1546.7	1221.0	1106.3	1075.6	1061.2	1061.2
15°	5660.5	4912.8	3829.0	2743.2	1680.0	1169.8	1057.1	1003.8	971.0	952.6	954.6
17.5°	6115.3	5191.4	3792.1	2261.8	1239.4	1040.7	956.7	899.4	854.3	835.9	831.8
20°	6574.3	5449.6	3587.3	1684.1	1048.9	944.5	850.2	786.7	741.6	723.2	719.1
22.5°	7049.6	5668.7	3226.7	1235.3	942.4	837.9	745.7	682.2	639.2	622.8	614.6
25°	7512.6	5847.0	2722.7	999.7	842.0	737.5	649.5	590.0	551.1	534.7	532.7
27.5°	7944.9	5959.7	2138.8	883.0	753.9	647.4	567.5	514.2	481.4	469.1	467.1
30°	8334.1	5969.9	1581.6	796.9	676.1	569.5	495.8	448.6	419.9	407.6	403.6
32.5°	8727.5	5883.8	1151.4	719.1	604.4	501.9	430.2	393.4	372.9	362.7	362.7
35°	9098.2	5685.1	897.4	651.5	534.7	436.3	379.0	352.4	340.1	329.9	329.9
37.5°	9460.9	5400.4	762.1	592.1	469.1	381.1	334.0	317.6	307.3	297.1	297.1
40°	9829.7	5041.8	692.4	536.8	415.8	338.1	297.1	282.7	272.5	264.3	262.2
42.5°	10282.4	4628.0	647.4	485.5	368.8	299.1	262.2	245.8	237.6	229.4	225.3
45°	10806.9	4271.5	610.5	434.3	329.9	266.3	227.4	211.0	198.7	188.5	186.4
47.5°	11562.8	4013.4	561.4	379.0	293.0	231.5	196.6	178.2	159.8	149.5	147.5
50°	12527.8	3800.3	497.8	329.9	256.1	196.6	163.9	141.3	125.0	114.8	114.8
52.5°	13007.2	3521.7	440.4	286.8	215.1	165.9	133.2	106.6	98.4	88.1	88.1
55°	13199.8	3308.7	383.1	243.8	178.2	137.2	104.5	82.0	75.8	69.7	67.6
57.5°	13740.6	3247.2	334.0	206.9	147.5	108.6	79.9	61.5	57.4	49.2	49.2
60°	14611.3	3277.9	288.9	176.2	118.9	84.0	59.4	47.1	43.0	34.8	34.8
62.5°	15551.7	3239.0	243.8	151.6	92.2	61.5	41.0	34.8	34.8	20.5	18.4
65°	15732.0	2884.5	208.9	125.0	71.7	45.1	26.6	22.5	30.7	4.1	0.0
67.5°	14601.1	2237.2	180.3	96.3	53.3	34.8	20.5	10.2	26.6	0.0	0.0
70°	11675.6	1421.8	145.4	69.7	41.0	28.7	16.4	4.1	20.5	0.0	0.0
72.5°	8256.3	825.6	114.8	49.2	34.8	22.5	12.3	0.0	12.3	0.0	0.0
75°	4175.3	440.4	71.7	36.9	26.6	16.4	8.2	0.0	2.0	0.0	0.0
77.5°	903.5	204.8	45.1	26.6	18.4	10.2	4.1	0.0	0.0	0.0	0.0
80°	196.6	90.2	28.7	16.4	10.2	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	71.7	47.1	14.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.9	24.6	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.5	8.2	2.0	2.0	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)