

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: P321899

Luminaire Tested: **GAN-SA5D-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 25123 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

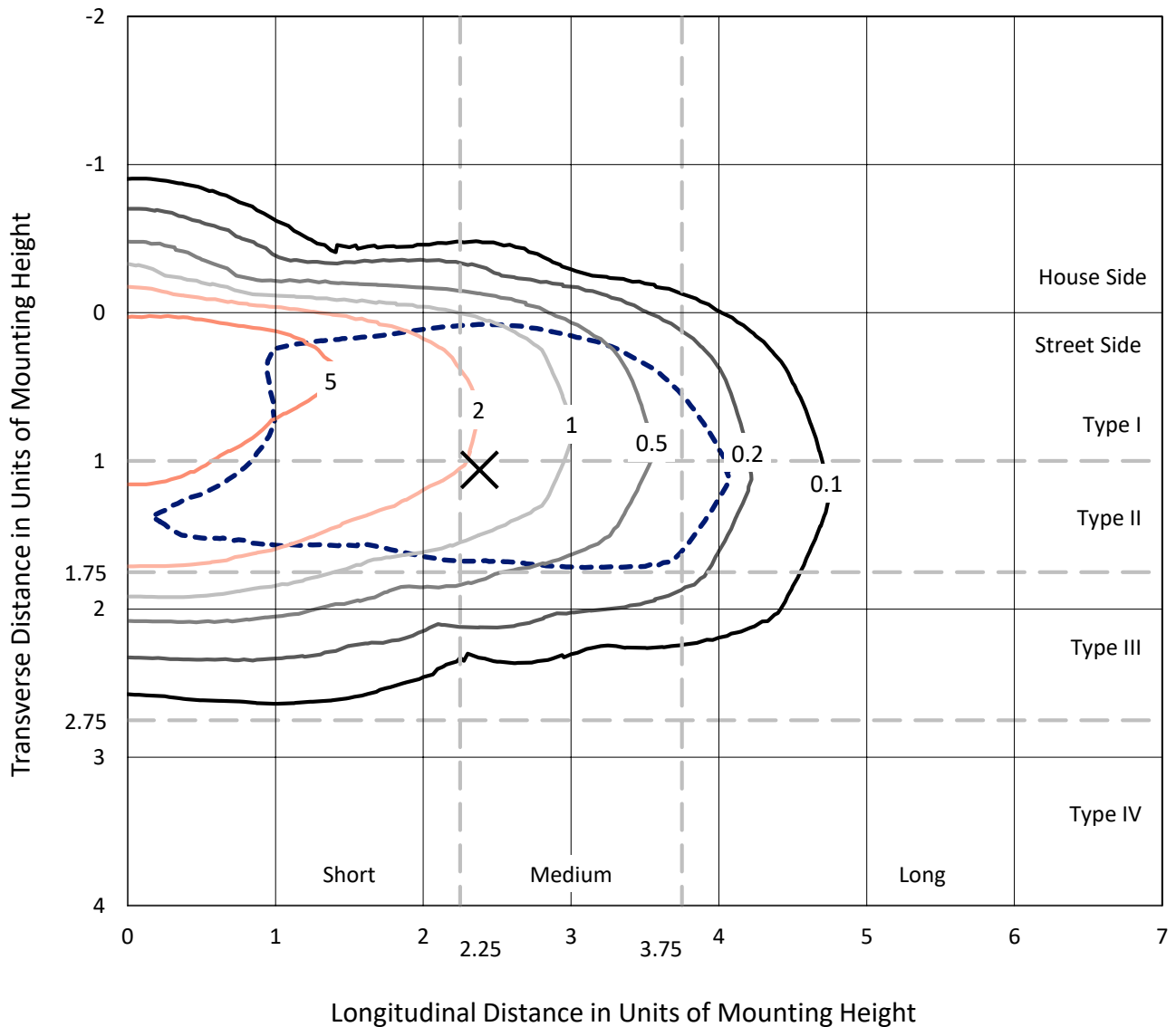
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

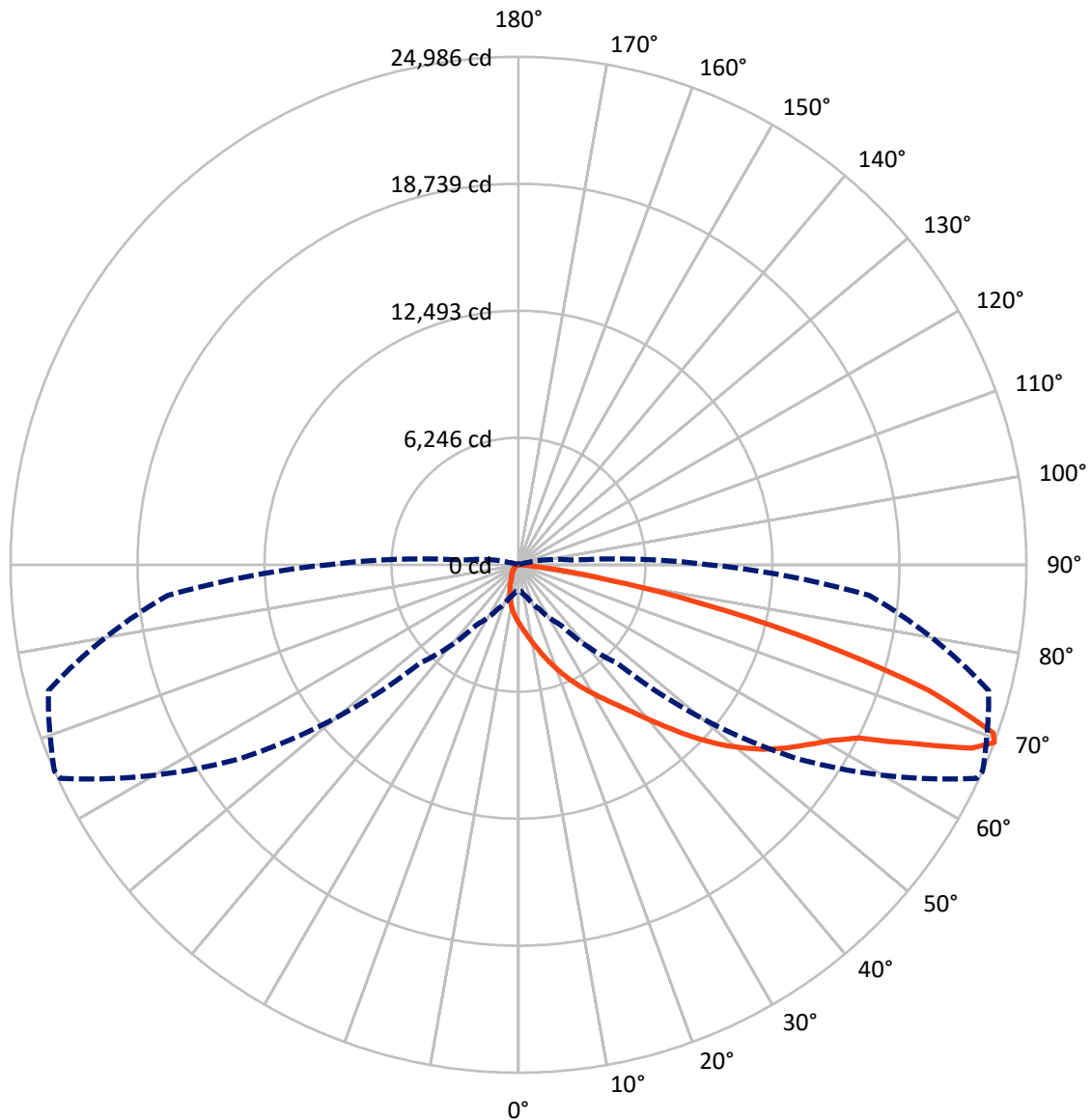
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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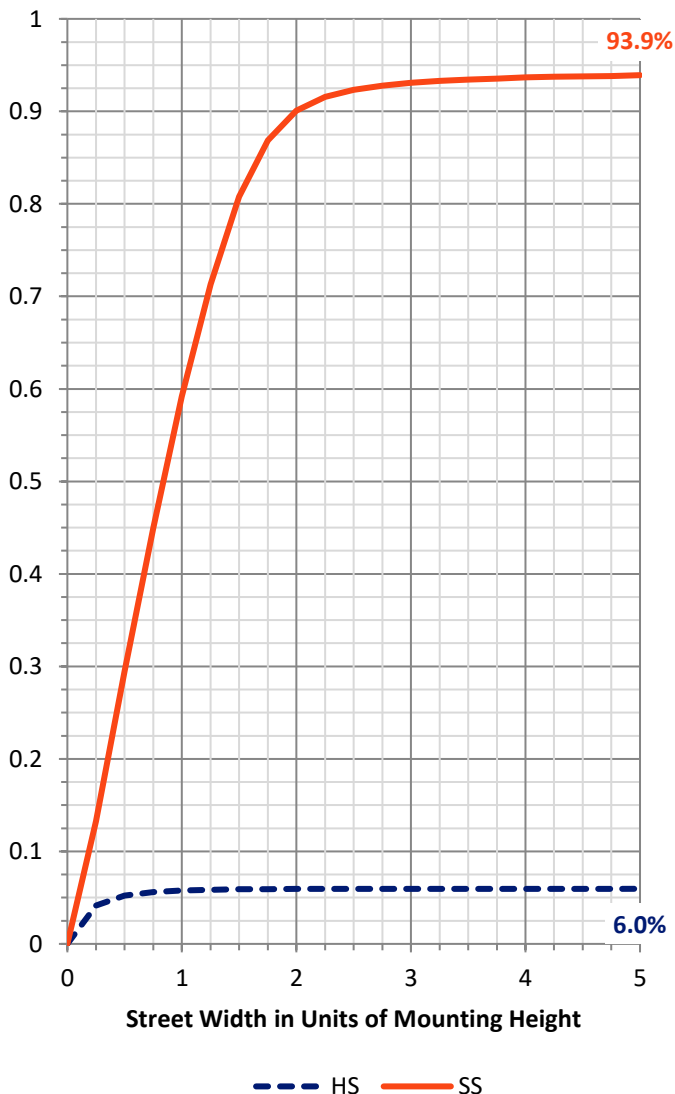
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.0	0.0	1507.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	23616.0	0.0	23616.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	25123.0	0.0	25123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.1
10°-20°	822.5	3.3
20°-30°	1432.3	5.7
30°-40°	2513.0	10.0
40°-50°	4206.4	16.7
50°-60°	6182.9	24.6
60°-70°	6348.3	25.3
70°-80°	3134.0	12.5
80°-90°	207.2	0.8
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°	25123.0	100.0
0°-180°	25123.0	100.0

Coefficient of Utilization

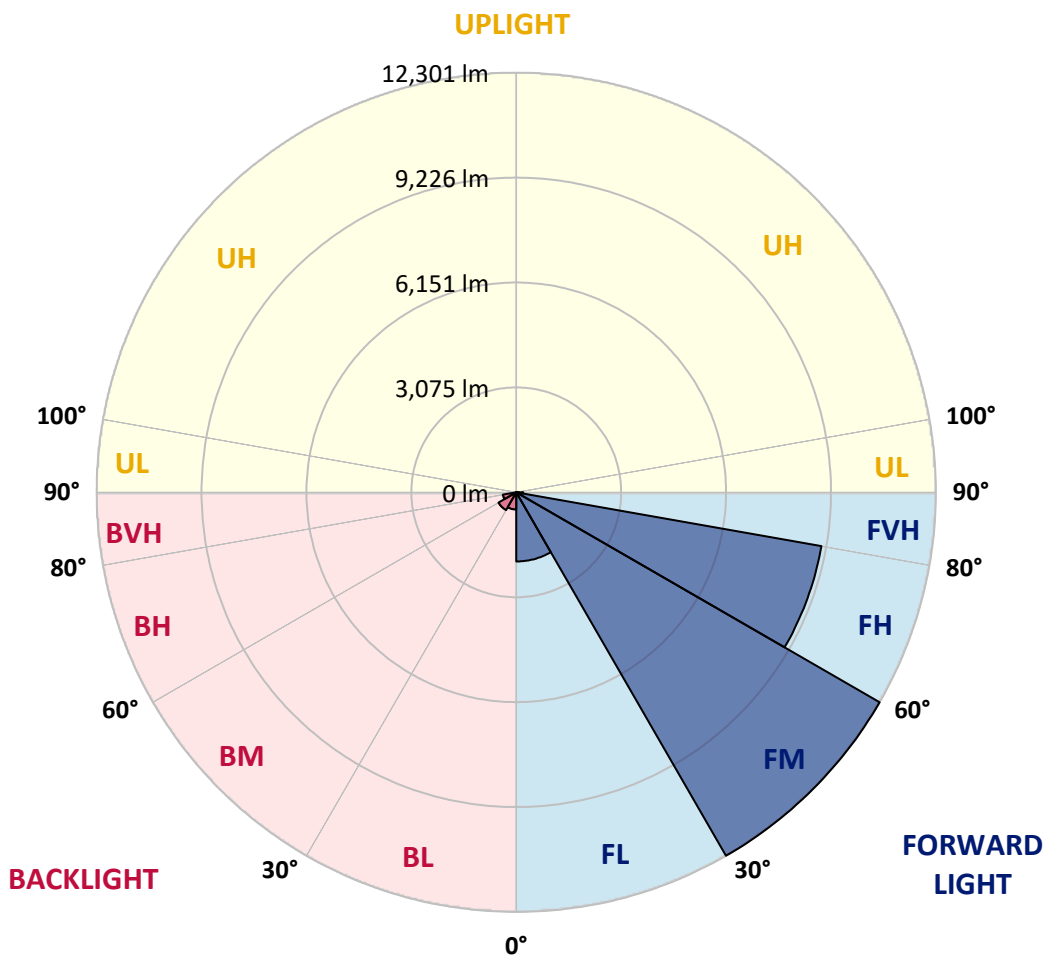


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.2	8.1			
FM (30°-60°)	12301.4	49.0			
FH (60°-80°)	9085.2	36.2			G4/12000
FVH (80°-90°)	202.2	0.8			G2/225
BL (0°-30°)	504.0	2.0	B2/1000		
BM (30°-60°)	600.9	2.4	B1/1000		
BH (60°-80°)	397.2	1.6	B1/500		G1/500
BVH (80°-90°)	5.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1
2.5°	3365.0	3350.7	3344.7	3318.5	3273.1	3238.5	3171.7	3094.2	3079.8	3004.7	2912.8
5°	3801.8	3789.8	3781.5	3744.5	3697.9	3610.8	3489.1	3344.7	3317.3	3174.1	2990.3
7.5°	4106.0	4127.5	4127.5	4103.7	4045.2	3979.6	3830.4	3633.5	3598.9	3379.3	3094.2
10°	4283.8	4310.1	4330.4	4350.7	4342.3	4316.1	4175.3	3953.3	3911.5	3620.4	3214.7
12.5°	4300.5	4326.8	4384.1	4468.8	4551.1	4610.8	4522.5	4307.7	4260.0	3899.6	3357.9
15°	4207.5	4234.9	4323.2	4487.9	4687.2	4861.4	4890.0	4700.3	4651.4	4232.5	3536.9
17.5°	4045.2	4063.1	4189.6	4417.5	4730.1	5049.9	5222.9	5121.5	5076.2	4613.2	3736.1
20°	3924.7	3937.8	4048.8	4293.4	4703.9	5168.1	5538.0	5569.0	5521.3	5021.3	3952.1
22.5°	4131.1	4155.0	4158.6	4274.3	4632.3	5226.5	5814.8	6009.3	5973.5	5454.4	4164.5
25°	4695.5	4723.0	4632.3	4560.7	4693.1	5252.8	6052.3	6460.4	6431.7	5921.0	4378.1
27.5°	5441.3	5470.0	5353.0	5139.4	5011.7	5351.8	6263.5	6918.6	6917.4	6415.0	4608.4
30°	6174.0	6202.6	6083.3	5869.7	5576.2	5632.2	6446.1	7398.3	7405.4	6924.6	4853.0
32.5°	6942.5	6978.3	6855.3	6580.9	6274.2	6116.7	6702.6	7880.4	7920.9	7515.2	5128.7
35°	7815.9	7820.7	7647.7	7360.1	7006.9	6764.7	7114.3	8420.9	8517.6	8246.7	5478.3
37.5°	8672.7	8707.3	8565.3	8111.9	7787.3	7512.8	7726.4	9096.3	9233.5	9140.5	5935.3
40°	9307.5	9380.3	9360.0	8870.8	8562.9	8367.2	8486.5	9899.4	10073.6	10181.0	6511.7
42.5°	9706.1	9761.0	9854.0	9559.3	9280.1	9312.3	9383.9	10834.9	11049.7	11367.1	7173.9
45°	10163.1	10189.3	10266.9	10136.8	9948.3	10272.9	10336.1	11888.6	12114.1	12642.7	7909.0
47.5°	10721.5	10783.6	10805.1	10685.7	10599.8	11122.5	11253.7	12846.8	13163.0	14009.0	8687.0
50°	11432.7	11449.4	11486.4	11408.9	11323.0	11852.8	12077.1	13852.7	14140.3	15380.1	9454.3
52.5°	12128.4	12188.1	12316.9	12268.0	12233.4	12474.5	12811.0	14759.6	15080.6	16523.2	10220.4
55°	12328.9	12380.2	12825.3	13129.6	13411.2	13240.5	13512.6	15572.2	15919.4	17544.7	10957.8
57.5°	11528.2	11632.0	12402.9	13195.2	14363.4	14431.4	14476.8	16406.3	16717.7	18327.5	11725.1
60°	9504.4	9524.7	10789.6	12148.7	14205.9	15470.8	15884.8	17302.4	17563.8	19056.5	12643.9
62.5°	6045.1	6251.5	7639.3	9558.1	12540.1	15320.4	17587.6	18658.0	18753.5	19931.2	13961.3
65°	2879.4	3013.0	4013.0	5905.5	9083.2	13395.7	18763.0	21110.2	21153.1	21665.0	15721.3
67.5°	1594.2	1658.6	2134.8	3178.9	5310.1	9473.4	18288.1	24014.6	24055.2	23435.8	17265.4
69°	1247.0	1301.9	1676.5	2396.1	3600.1	6808.8	16549.5	24865.4	24985.9	23943.0	17320.3
70°	1058.4	1112.1	1443.9	2023.8	2894.9	5261.1	14730.9	24654.2	24781.9	23895.3	16911.0
72.5°	647.9	679.0	961.8	1424.8	1940.3	2646.7	9084.4	20850.0	21066.0	21919.2	14534.0
75°	436.7	453.4	601.4	983.3	1387.8	1362.7	4719.4	14696.3	15164.1	17050.7	10734.7
77.5°	312.6	328.1	403.3	636.0	972.5	899.7	2137.1	9133.3	9233.5	10226.3	5854.2
80°	177.8	192.1	285.2	378.3	659.9	600.2	849.6	4362.6	4412.7	4385.3	1954.6
82.5°	93.1	105.0	156.3	249.4	423.6	392.6	353.2	1460.6	1467.7	1220.7	428.4
85°	17.9	21.5	77.6	170.6	218.4	170.6	144.4	342.5	349.6	309.1	106.2
87.5°	0.0	1.2	31.0	38.2	43.0	44.2	46.5	66.8	71.6	96.7	28.6
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°	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1	2859.1
2.5°	2872.2	2829.2	2746.9	2651.4	2577.5	2504.7	2447.4	2387.7	2366.3	2355.5	2354.3
5°	2900.8	2810.2	2635.9	2456.9	2310.2	2171.8	2072.7	1978.4	1934.3	1914.0	1905.7
7.5°	2948.6	2803.0	2522.6	2249.3	2038.1	1865.1	1727.9	1625.2	1573.9	1552.4	1544.1
10°	3004.7	2793.4	2390.1	2029.8	1760.1	1581.1	1445.1	1343.6	1287.5	1263.7	1251.7
12.5°	3070.3	2776.7	2237.4	1807.8	1522.6	1343.6	1179.0	1053.7	989.2	961.8	948.7
15°	3151.4	2760.0	2077.5	1599.0	1313.8	1095.4	915.2	830.5	817.4	812.6	813.8
17.5°	3231.4	2733.8	1903.3	1392.5	1094.2	855.6	763.7	758.9	761.3	761.3	761.3
20°	3303.0	2674.1	1713.5	1215.9	885.4	721.9	702.8	694.5	688.5	683.7	677.8
22.5°	3359.1	2594.2	1531.0	1040.5	723.1	661.1	631.2	605.0	583.5	569.2	562.0
25°	3397.2	2488.0	1363.9	872.3	650.3	601.4	547.7	503.6	470.1	449.9	441.5
27.5°	3425.9	2373.4	1214.8	730.3	600.2	532.2	461.8	409.3	374.7	356.8	349.6
30°	3446.2	2243.4	1083.5	642.0	544.1	459.4	384.2	332.9	307.9	298.3	293.5
32.5°	3465.3	2099.0	959.4	600.2	491.6	392.6	322.2	282.8	267.3	255.4	251.8
35°	3513.0	1965.3	841.3	556.1	437.9	335.3	276.8	248.2	232.7	225.5	223.1
37.5°	3626.4	1866.3	727.9	510.7	384.2	290.0	242.2	221.9	207.6	200.5	198.1
40°	3808.9	1816.2	632.4	461.8	331.7	255.4	219.6	200.5	185.0	174.2	171.8
42.5°	4077.4	1823.3	565.6	412.9	290.0	227.9	198.1	175.4	158.7	149.2	146.8
45°	4403.2	1875.8	519.1	365.1	255.4	206.4	174.2	150.4	134.8	126.5	124.1
47.5°	4756.4	1960.5	480.9	322.2	227.9	186.2	150.4	125.3	112.2	105.0	103.8
50°	5128.7	2042.9	441.5	280.4	204.0	165.9	126.5	103.8	93.1	87.1	84.7
52.5°	5505.8	2138.3	405.7	242.2	183.8	142.0	105.0	84.7	76.4	71.6	69.2
55°	5911.5	2209.9	371.1	212.4	163.5	120.5	87.1	70.4	63.2	57.3	56.1
57.5°	6388.8	2320.9	335.3	183.8	139.6	100.2	71.6	56.1	50.1	44.2	43.0
60°	7033.1	2451.0	297.1	162.3	114.6	82.3	58.5	45.3	38.2	33.4	32.2
62.5°	7882.8	2595.4	249.4	142.0	93.1	66.8	46.5	35.8	27.4	21.5	21.5
65°	8960.3	2830.4	204.0	119.3	76.4	54.9	35.8	26.3	15.5	9.5	9.5
67.5°	9589.1	2871.0	164.7	97.8	62.1	46.5	29.8	17.9	4.8	1.2	0.0
69°	9387.5	2635.9	139.6	83.5	53.7	44.2	27.4	13.1	2.4	0.0	0.0
70°	9008.0	2410.4	122.9	74.0	48.9	41.8	26.3	9.5	2.4	0.0	0.0
72.5°	7443.6	1715.9	93.1	54.9	35.8	37.0	23.9	6.0	2.4	0.0	0.0
75°	5422.2	1042.9	66.8	38.2	22.7	27.4	16.7	2.4	1.2	0.0	0.0
77.5°	3016.6	491.6	41.8	21.5	14.3	16.7	8.4	0.0	0.0	0.0	0.0
80°	979.7	133.6	19.1	11.9	8.4	9.5	3.6	0.0	0.0	0.0	0.0
82.5°	181.4	38.2	10.7	6.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	39.4	15.5	6.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	4.8	1.2	0.0	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)