

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: P321264

Luminaire Tested: **GAN-SA0D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321264
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-SA0D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 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: 56453 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

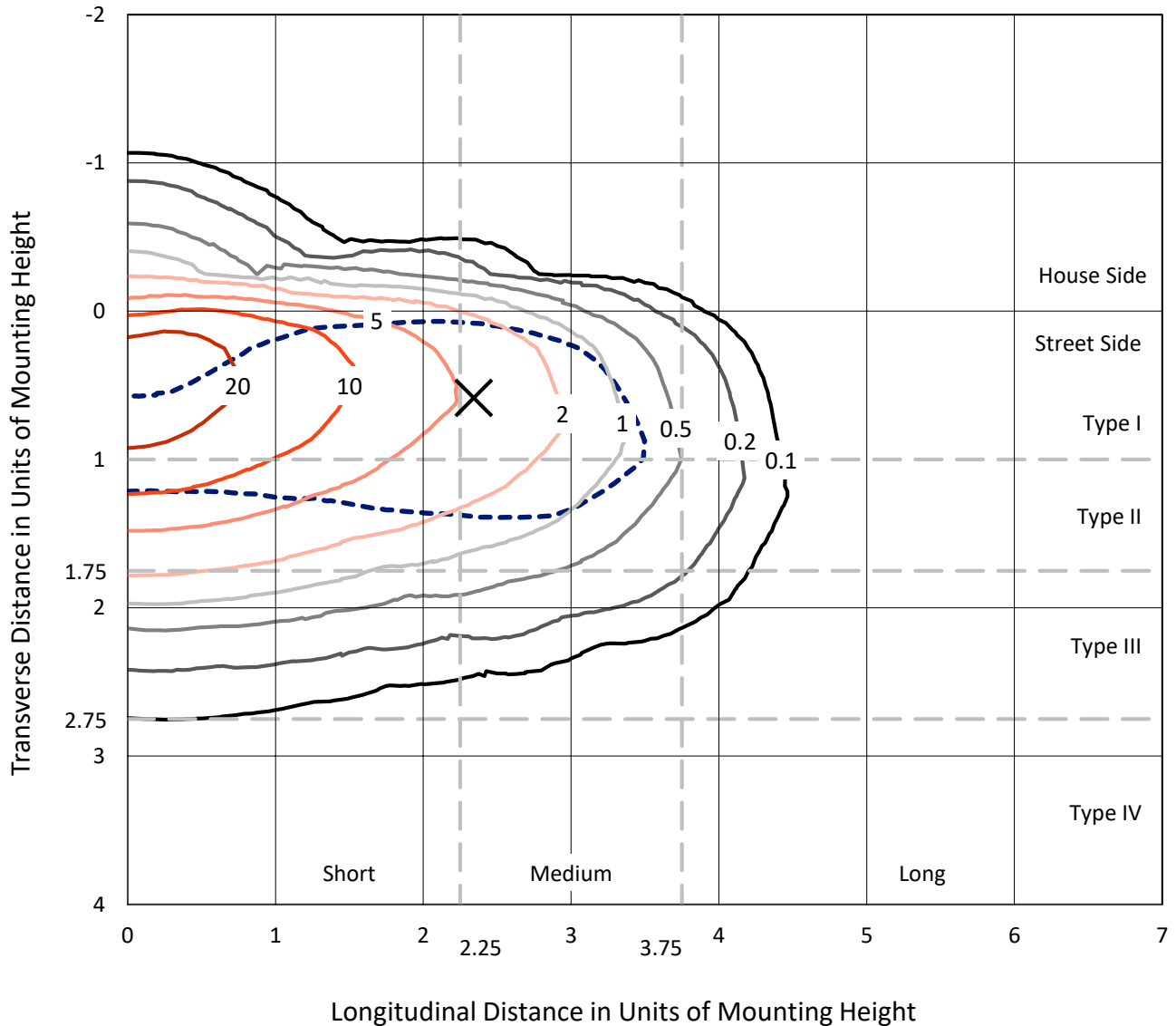
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

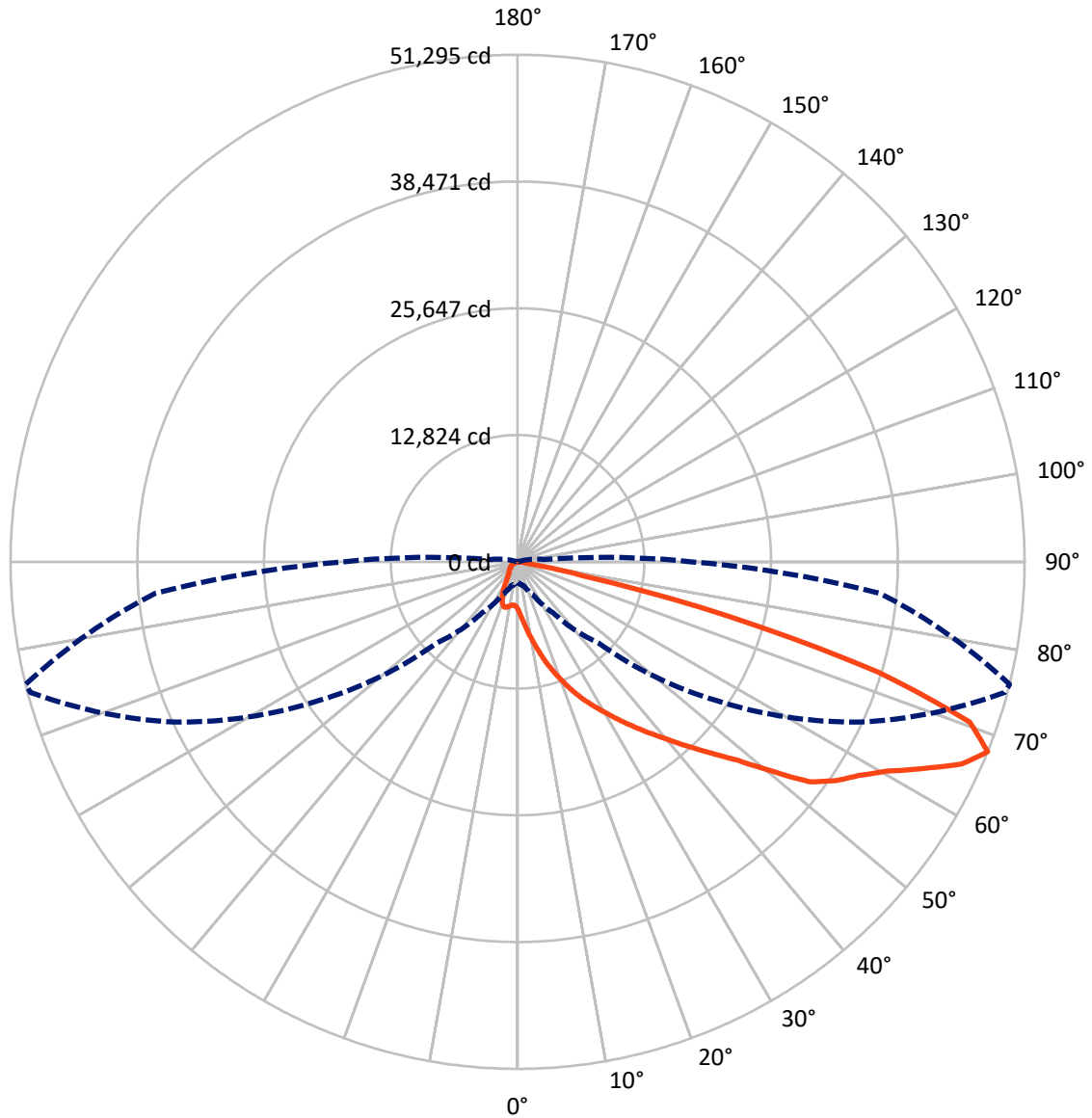
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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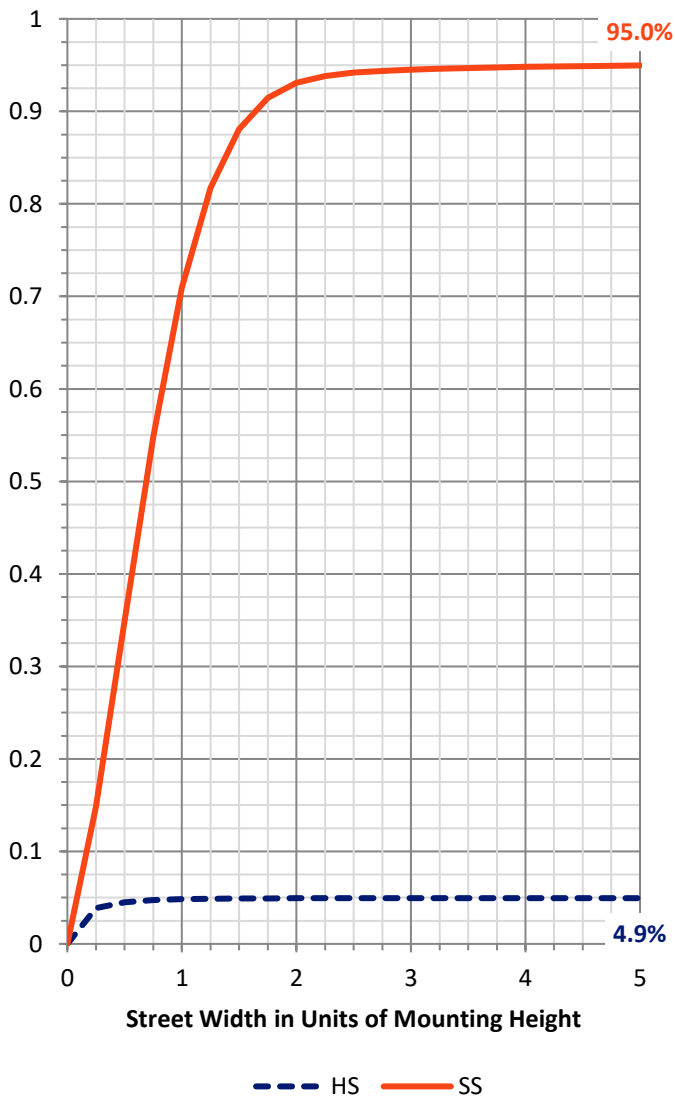
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2803.3	0.0	2803.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	53649.7	0.0	53649.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	56453.0	0.0	56453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.5	1.1
10°-20°	2360.6	4.2
20°-30°	4803.0	8.5
30°-40°	8336.5	14.8
40°-50°	11778.4	20.9
50°-60°	13357.3	23.7
60°-70°	11078.6	19.6
70°-80°	4013.0	7.1
80°-90°	130.1	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°	56453.0	100.0
0°-180°	56453.0	100.0

Coefficient of Utilization

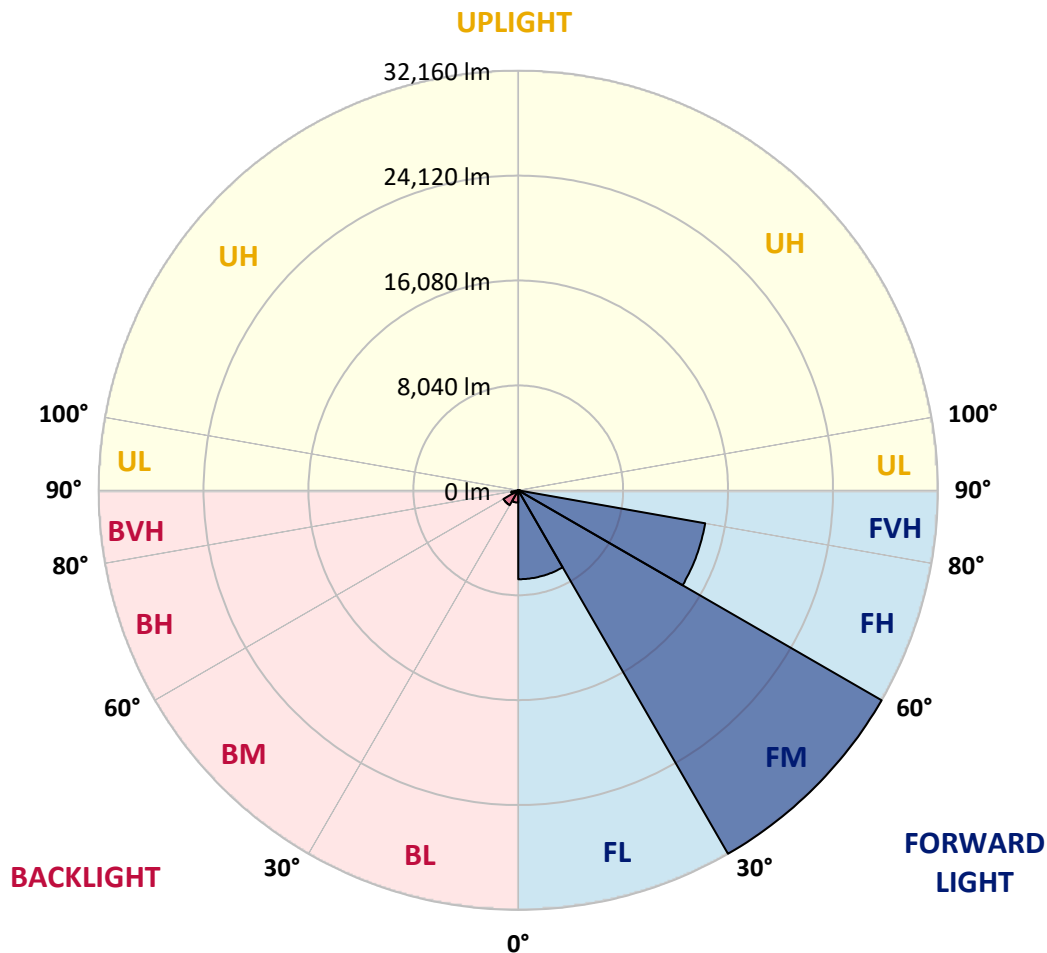


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6813.7	12.1			
FM (30°-60°)	32160.1	57.0			
FH (60°-80°)	14549.8	25.8			G5
FVH (80°-90°)	126.0	0.2			G2/225
BL (0°-30°)	945.4	1.7	B2/1000		
BM (30°-60°)	1312.0	2.3	B2/2500		
BH (60°-80°)	541.8	1.0	B2/1000		G2/1000
BVH (80°-90°)	4.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8
2.5°	7148.6	6987.9	7025.0	6921.1	6733.1	6347.2	6018.2	5706.5	5342.9	5330.6	5031.3
5°	9639.5	9503.5	9486.2	9275.9	8934.6	8279.1	7640.9	6913.7	6102.3	6043.0	5407.2
7.5°	11900.4	11791.6	11752.0	11502.1	10866.4	10228.3	9397.1	8328.5	7059.6	6950.8	5914.3
10°	13636.8	13584.9	13594.8	13416.7	12872.5	12278.8	11188.0	9825.1	8145.5	7977.3	6522.8
12.5°	14952.8	14965.2	15054.2	14945.4	14641.1	14200.8	13035.8	11420.5	9347.7	9117.6	7217.9
15°	15920.0	15981.8	16145.1	16281.1	16258.8	15877.9	14809.3	13040.7	10624.0	10369.2	7992.1
17.5°	16545.8	16615.0	16852.5	17154.3	17431.3	17342.3	16521.0	14604.0	11915.2	11620.9	8820.8
20°	17094.9	17176.5	17431.3	17829.6	18346.5	18457.8	17918.6	16120.3	13204.0	12845.3	9676.6
22.5°	18284.7	18282.2	18438.1	18670.6	19162.8	19449.8	19108.4	17527.8	14477.9	14104.3	10549.8
25°	20436.7	20355.1	20300.7	20117.6	20226.5	20404.6	20214.1	18843.7	15759.2	15380.7	11435.4
27.5°	22994.4	23043.9	22603.6	22111.3	21730.4	21547.3	21235.7	20063.2	16991.0	16575.5	12301.1
30°	25693.1	25707.9	25188.5	24560.2	23721.6	23026.5	22487.3	21228.3	18257.5	17804.8	13142.1
32.5°	28127.1	28030.6	27516.1	26660.2	25601.5	24819.9	23699.4	22529.4	19598.2	19160.3	14077.1
35°	30056.5	29942.7	29316.9	28537.7	27439.4	26652.8	25304.7	23828.0	21008.1	20580.2	15014.6
37.5°	31466.4	31332.8	30689.7	29888.3	28940.9	28483.3	27167.3	25240.4	22546.7	22086.6	16001.6
40°	31956.2	31839.9	31436.7	30850.5	30088.6	29984.7	29143.7	26865.5	24221.3	23731.5	17119.6
42.5°	31664.3	31550.5	31407.0	31209.1	30892.5	30991.5	31008.8	28718.3	26081.4	25599.1	18354.0
45°	30506.7	30405.2	30553.7	30843.1	31236.4	31726.1	32710.6	30709.5	28159.2	27644.7	19781.2
47.5°	28802.4	28728.1	29138.8	29861.0	31011.3	32361.8	34266.5	32802.1	30491.8	30014.4	21562.2
50°	26378.2	26365.9	27187.1	28505.5	30274.1	32668.6	35874.3	35181.7	33732.2	33230.1	24038.2
52.5°	22603.6	22628.3	24243.6	26353.5	28980.5	32460.8	36908.3	38239.1	37501.9	36980.0	26182.8
55°	19009.5	19157.9	20303.1	23345.6	26996.6	31689.0	37264.5	39666.3	39582.2	39087.5	27375.1
57.5°	15489.6	15759.2	16862.4	19704.5	24100.1	29910.5	37069.1	40284.7	41130.7	40752.2	28948.3
60°	11675.3	11799.0	13070.4	15727.0	20382.3	26665.2	35651.7	40621.1	43248.1	42985.9	31231.4
62.5°	7428.2	7737.4	8865.3	11427.9	15870.5	22158.3	33262.2	40616.2	45897.3	46040.7	34177.4
65°	3913.2	4274.3	4873.0	7081.9	10906.0	17124.6	29668.1	40235.2	49147.5	49347.9	36480.3
67.5°	2110.0	2213.9	2530.5	3675.7	6324.9	11601.1	24387.0	38355.3	51029.9	51294.6	36801.9
70°	1543.5	1600.4	1719.1	2033.3	3183.5	6738.0	17794.9	34093.3	48603.4	48504.4	32698.2
72.5°	1184.8	1273.9	1362.9	1489.1	1830.4	3596.6	11079.2	26697.3	38780.8	38127.8	24441.4
75°	935.0	949.9	1076.0	1189.8	1372.8	2048.1	4919.9	15548.9	23669.7	22123.7	12674.6
77.5°	747.0	756.9	831.1	930.1	1103.2	1345.6	1523.7	6117.2	7556.8	6743.0	2750.6
80°	442.8	467.5	618.4	717.3	915.2	848.4	556.6	1328.3	1179.9	1068.6	462.6
82.5°	247.4	267.1	348.8	566.4	638.2	405.7	277.0	358.7	277.0	269.6	131.1
85°	0.0	12.4	225.1	351.2	259.7	89.0	116.3	118.7	81.6	76.7	51.9
87.5°	0.0	0.0	69.3	66.8	9.9	14.8	27.2	39.6	32.2	32.2	27.2
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°	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8	4788.8
2.5°	4882.8	4749.3	4497.0	4249.6	4041.8	3871.2	3717.8	3656.0	3606.5	3599.1	3559.5
5°	5100.5	4830.9	4348.6	3952.8	3688.1	3500.1	3339.3	3240.4	3163.7	3134.0	3106.8
7.5°	5429.5	5021.4	4328.8	3873.6	3557.0	3240.4	2943.6	2622.0	2421.6	2345.0	2300.4
10°	5830.2	5273.7	4403.0	3851.4	3297.3	2629.4	2137.2	1729.0	1563.3	1508.9	1494.0
12.5°	6297.7	5587.8	4531.6	3712.8	2743.2	1867.6	1474.3	1335.7	1298.6	1281.3	1281.3
15°	6834.5	5931.6	4623.1	3312.1	2028.3	1412.4	1276.4	1212.1	1172.5	1150.2	1152.7
17.5°	7383.6	6268.0	4578.6	2730.8	1496.5	1256.6	1155.2	1085.9	1031.5	1009.2	1004.3
20°	7937.7	6579.7	4331.2	2033.3	1266.5	1140.3	1026.5	949.9	895.4	873.2	868.2
22.5°	8511.6	6844.4	3895.9	1491.6	1137.8	1011.7	900.4	823.7	771.8	752.0	742.1
25°	9070.6	7059.6	3287.4	1207.1	1016.6	890.5	784.1	712.4	665.4	645.6	643.1
27.5°	9592.5	7195.6	2582.4	1066.1	910.3	781.7	685.2	620.9	581.3	566.4	564.0
30°	10062.5	7208.0	1909.6	962.2	816.3	687.7	598.6	541.7	507.1	492.2	487.3
32.5°	10537.4	7104.1	1390.2	868.2	729.7	606.0	519.5	474.9	450.2	437.8	437.8
35°	10985.2	6864.2	1083.4	786.6	645.6	526.9	457.6	425.5	410.6	398.2	398.2
37.5°	11423.0	6520.4	920.2	714.9	566.4	460.1	403.2	383.4	371.0	358.7	358.7
40°	11868.2	6087.5	836.1	648.1	502.1	408.1	358.7	341.4	329.0	319.1	316.6
42.5°	12414.9	5587.8	781.7	586.2	445.2	361.1	316.6	296.8	286.9	277.0	272.1
45°	13048.1	5157.4	737.1	524.4	398.2	321.6	274.6	254.8	239.9	227.6	225.1
47.5°	13960.9	4845.7	677.8	457.6	353.7	279.5	237.5	215.2	192.9	180.6	178.1
50°	15125.9	4588.5	601.1	398.2	309.2	237.5	197.9	170.7	150.9	138.5	138.5
52.5°	15704.8	4252.1	531.8	346.3	259.7	200.4	160.8	128.6	118.7	106.4	106.4
55°	15937.3	3994.8	462.6	294.4	215.2	165.7	126.2	98.9	91.5	84.1	81.6
57.5°	16590.3	3920.6	403.2	249.8	178.1	131.1	96.5	74.2	69.3	59.4	59.4
60°	17641.6	3957.7	348.8	212.7	143.5	101.4	71.7	56.9	51.9	42.1	42.1
62.5°	18776.9	3910.7	294.4	183.0	111.3	74.2	49.5	42.1	42.1	24.7	22.3
65°	18994.6	3482.8	252.3	150.9	86.6	54.4	32.2	27.2	37.1	4.9	0.0
67.5°	17629.2	2701.1	217.7	116.3	64.3	42.1	24.7	12.4	32.2	0.0	0.0
70°	14096.9	1716.7	175.6	84.1	49.5	34.6	19.8	4.9	24.7	0.0	0.0
72.5°	9968.5	996.9	138.5	59.4	42.1	27.2	14.8	0.0	14.8	0.0	0.0
75°	5041.2	531.8	86.6	44.5	32.2	19.8	9.9	0.0	2.5	0.0	0.0
77.5°	1090.8	247.4	54.4	32.2	22.3	12.4	4.9	0.0	0.0	0.0	0.0
80°	237.5	108.8	34.6	19.8	12.4	7.4	0.0	0.0	0.0	0.0	0.0
82.5°	86.6	56.9	17.3	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.0	29.7	9.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.7	9.9	2.5	2.5	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)