

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: P318044

Luminaire Tested: **GAN-SA0B-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50550 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

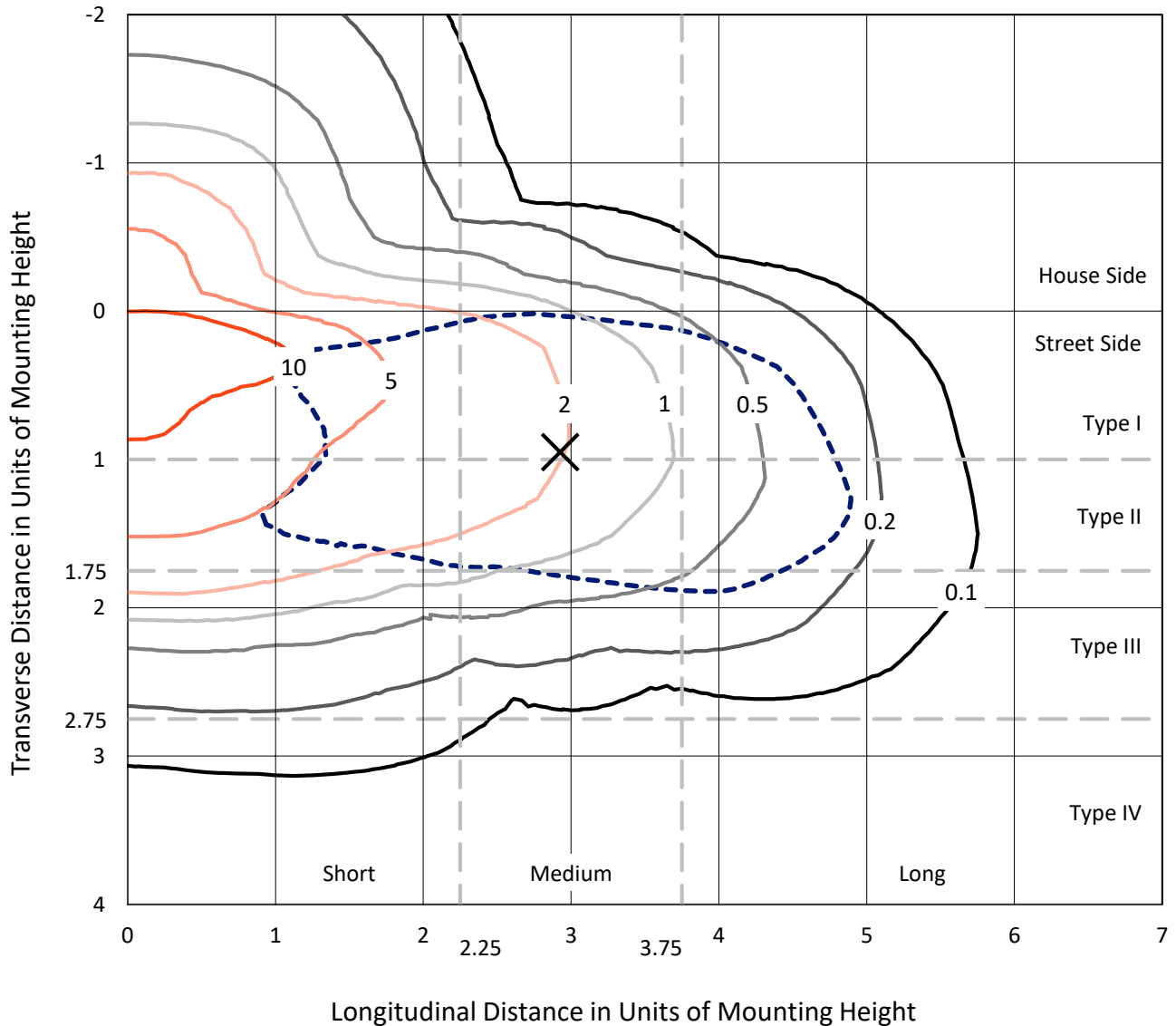
Input Watts (W): 419
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

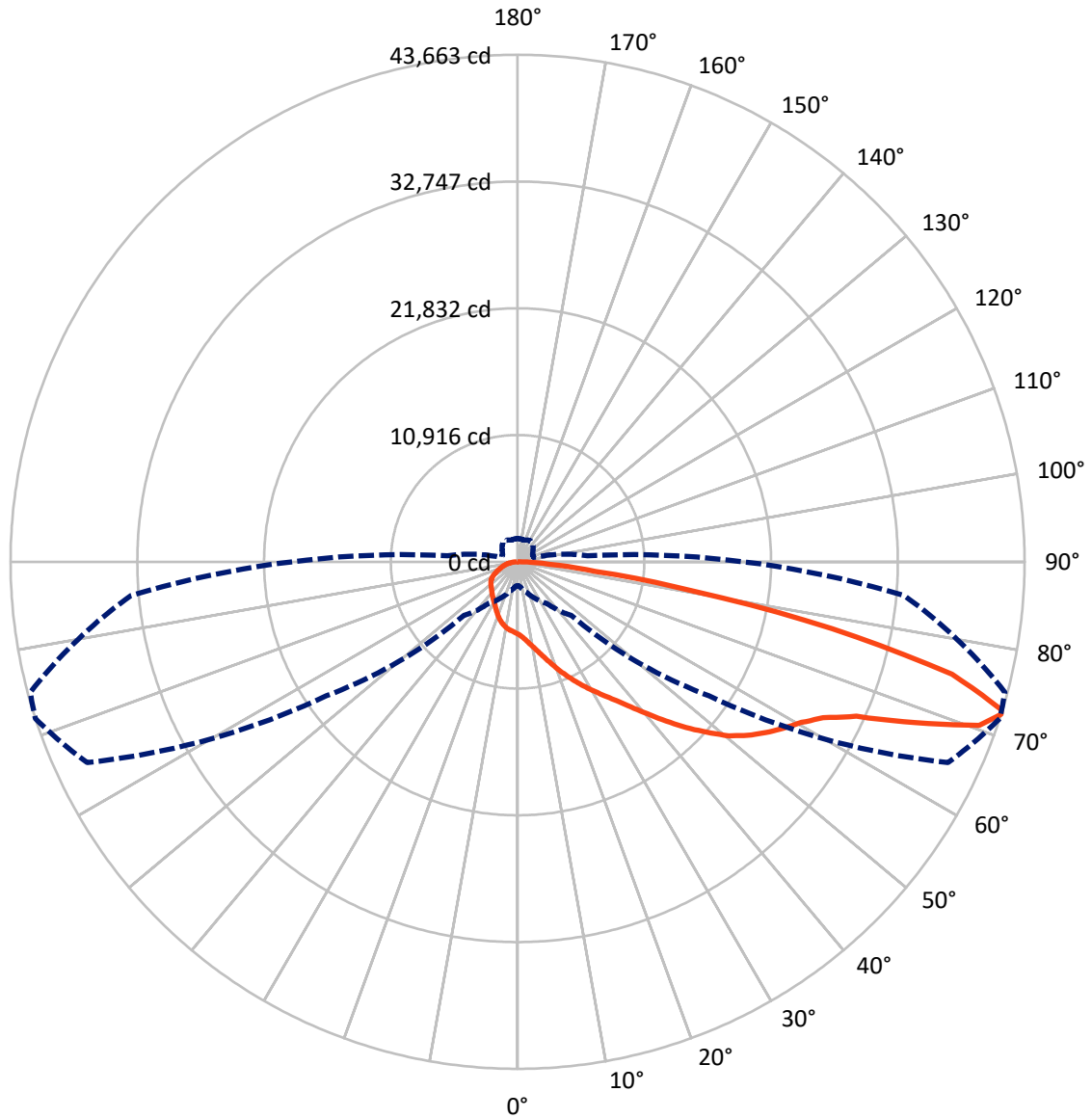
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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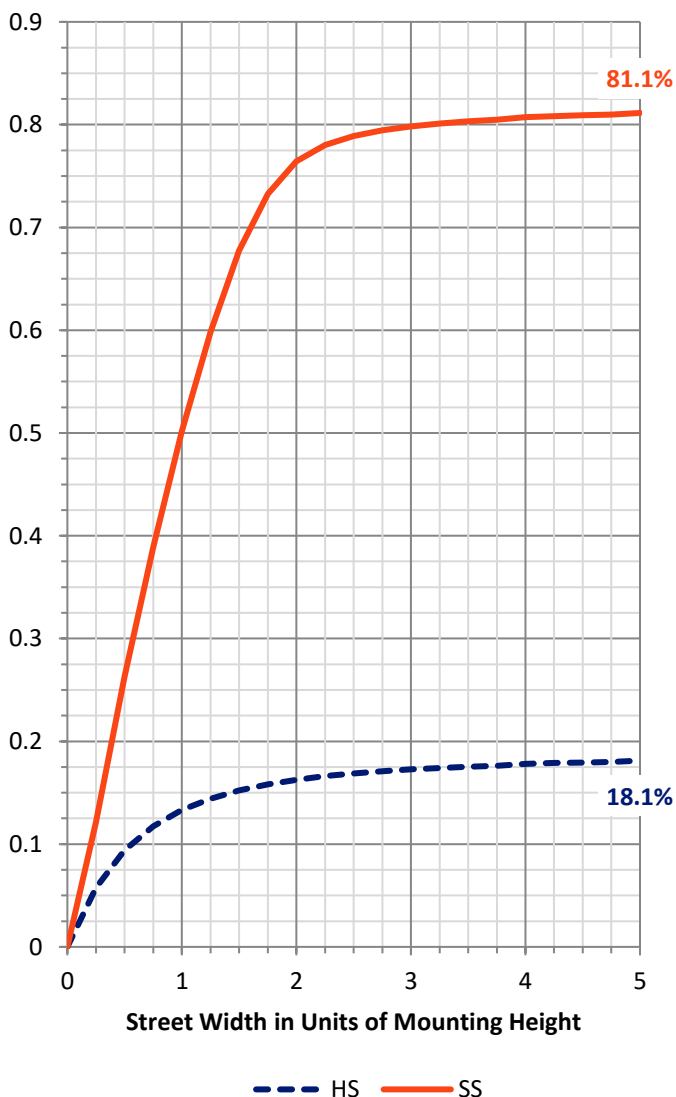
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9377.4	0.0	9377.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	41172.6	0.0	41172.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	50550.0	0.0	50550.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.2	1.2
10°-20°	2013.7	4.0
20°-30°	3528.7	7.0
30°-40°	5232.0	10.4
40°-50°	7652.2	15.1
50°-60°	10529.4	20.8
60°-70°	11722.3	23.2
70°-80°	7943.0	15.7
80°-90°	1305.5	2.6
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°	50550.0	100.0
0°-180°	50550.0	100.0

Coefficient of Utilization

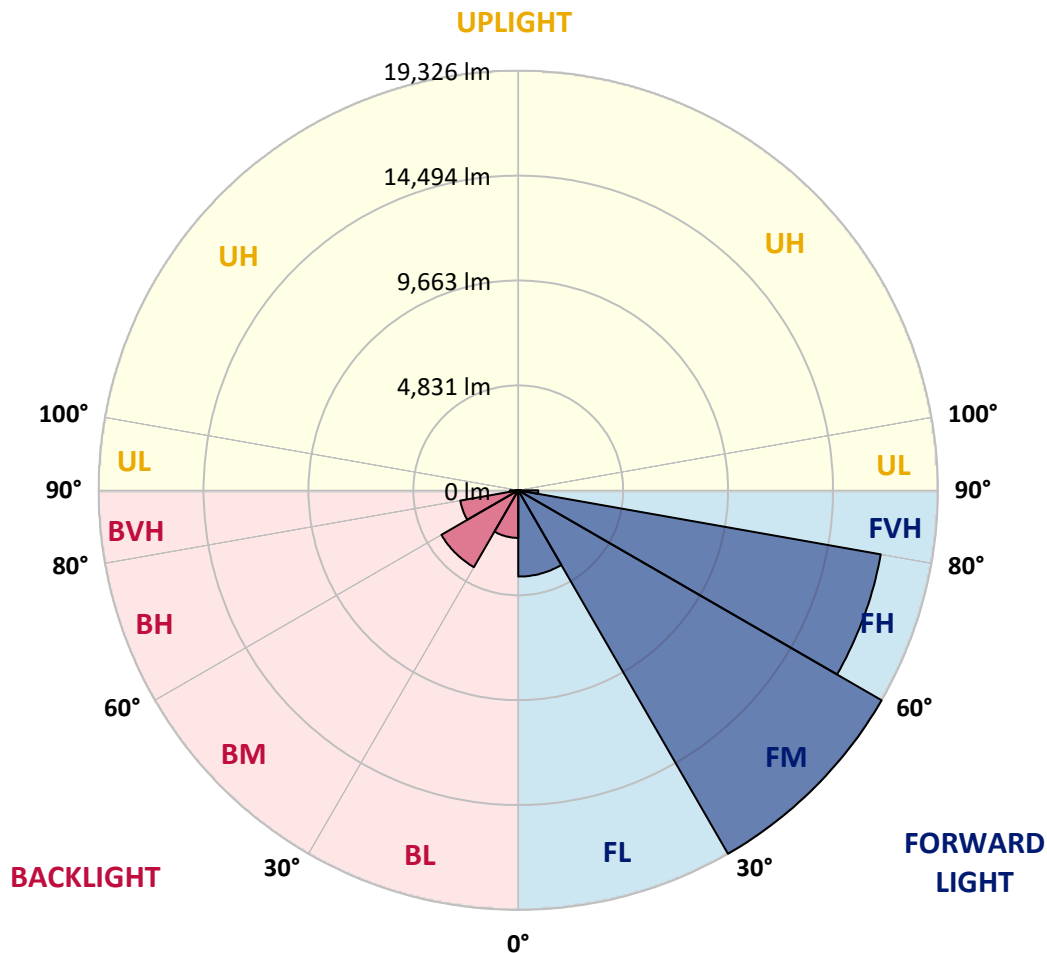


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3973.5	7.9			
FM (30°-60°)	19325.9	38.2			
FH (60°-80°)	16952.3	33.5			G5
FVH (80°-90°)	920.9	1.8			G5
BL (0°-30°)	2192.1	4.3	B3/2500		
BM (30°-60°)	4087.7	8.1	B3/5000		
BH (60°-80°)	2713.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	384.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0
2.5°	6869.9	6859.5	6822.9	6822.9	6753.3	6694.1	6582.7	6507.9	6419.1	6387.8	6283.4
5°	7534.8	7538.3	7493.0	7461.7	7359.0	7233.7	7044.0	6871.7	6699.4	6629.7	6415.7
7.5°	8093.5	8086.6	8074.4	8048.3	7952.6	7823.8	7567.9	7312.0	7057.9	6953.5	6584.5
10°	8452.1	8467.8	8478.2	8490.4	8450.3	8358.1	8116.2	7804.6	7472.2	7329.4	6786.4
12.5°	8633.1	8661.0	8709.7	8793.2	8859.4	8848.9	8673.1	8342.4	7947.3	7768.1	7038.8
15°	8739.3	8775.8	8852.4	9002.1	9188.3	9294.5	9247.5	8948.1	8507.8	8286.7	7346.8
17.5°	8805.4	8835.0	8953.4	9153.5	9430.3	9712.2	9835.8	9585.2	9141.3	8889.0	7700.2
20°	8850.7	8873.3	9021.2	9256.2	9614.8	10063.8	10408.5	10345.8	9839.3	9512.1	8069.2
22.5°	8951.6	8970.8	9111.8	9348.5	9745.3	10324.9	10960.2	11054.2	10575.6	10204.8	8464.3
25°	9233.6	9233.6	9352.0	9517.3	9889.8	10551.2	11426.7	11842.7	11327.5	10895.8	8829.8
27.5°	9771.4	9766.2	9809.7	9867.2	10149.1	10780.9	11842.7	12538.9	12107.2	11635.5	9184.9
30°	10408.5	10443.3	10448.5	10420.6	10552.9	11068.1	12227.3	13273.4	12892.2	12384.0	9548.6
32.5°	11228.3	11250.9	11224.8	11132.5	11113.4	11475.4	12605.0	14042.7	13741.6	13165.5	9881.1
35°	12269.1	12225.6	12143.8	11955.8	11776.5	12020.2	13036.7	14812.0	14695.4	14110.6	10338.8
37.5°	13384.8	13386.5	13285.6	12859.1	12612.0	12716.4	13632.0	15684.1	15849.4	15235.0	10925.4
40°	14279.4	14326.4	14389.1	13828.6	13508.4	13652.8	14389.1	16695.3	17214.0	16568.3	11689.5
42.5°	14904.3	14958.2	15135.8	14784.2	14451.7	14719.8	15280.2	17774.4	18745.7	18106.9	12584.1
45°	15565.7	15595.3	15720.6	15569.2	15356.8	15960.8	16284.5	18891.9	20366.1	19746.5	13585.0
47.5°	16261.9	16293.2	16422.0	16321.1	16209.7	17120.0	17332.4	19944.9	21918.7	21548.0	14653.7
50°	17121.7	17142.6	17264.5	17081.7	17116.5	17993.8	18268.8	20910.9	23546.1	23166.7	15725.8
52.5°	18294.9	18300.1	18468.9	18303.6	18140.0	18634.3	19074.6	21821.2	24821.9	24642.6	16798.0
55°	19213.9	19269.6	19823.1	19788.3	19694.3	19215.6	19748.2	22688.0	25960.2	26045.5	17936.3
57.5°	18627.3	18844.9	19965.8	20756.0	21525.3	20662.0	20658.5	23664.5	27018.5	27422.3	19187.8
60°	16314.1	16610.0	18261.8	20014.5	22421.7	23178.8	22548.8	24856.7	28087.2	28786.9	20756.0
62.5°	11651.2	12138.6	14376.9	17175.7	21192.9	24846.3	26395.4	26748.7	29540.5	30367.3	22794.2
65°	5890.0	6259.0	8135.3	11506.7	16932.0	23756.7	30576.2	30891.2	32066.1	32800.6	25932.4
67.5°	3578.6	3717.8	4633.3	6400.0	10380.6	18505.5	31940.7	37795.9	36953.5	37343.4	30407.3
70°	2636.9	2739.6	3310.5	4250.4	5970.1	10859.3	27753.0	42723.4	42169.9	42126.4	33714.4
72°	2053.8	2128.7	2633.4	3434.1	4365.3	6514.9	20115.5	40904.6	43663.3	43444.0	33411.5
72.5°	1947.7	2013.8	2473.3	3232.2	4125.1	5905.7	18086.0	39677.5	43555.4	43456.2	33019.9
75°	1533.4	1580.4	1831.1	2499.4	3228.7	3350.5	9910.7	30748.5	38638.4	40244.9	29698.9
77.5°	1268.9	1275.8	1408.1	1818.9	2516.8	2368.9	4868.3	21333.9	27667.7	29434.4	21038.0
80°	1033.9	1042.6	1105.2	1275.8	1904.2	1752.7	2311.4	12267.4	15490.9	15510.0	10004.7
82.5°	823.3	825.0	894.6	932.9	1368.1	1253.2	1324.6	5759.5	6769.0	6511.4	3596.0
85°	579.6	567.4	873.8	765.8	894.6	804.1	731.0	2280.1	2798.8	2677.0	1126.1
87.5°	193.2	200.2	388.1	496.1	522.2	456.0	325.5	873.8	1056.5	1047.8	356.8
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°	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0	6219.0
2.5°	6250.3	6194.6	6112.8	6022.3	5950.9	5877.8	5823.9	5796.0	5764.7	5738.6	5769.9
5°	6316.4	6212.0	6038.0	5867.4	5742.1	5630.7	5550.6	5508.8	5470.5	5444.4	5447.9
7.5°	6424.4	6255.5	5963.1	5714.2	5540.2	5420.1	5338.3	5310.4	5286.0	5279.1	5287.8
10°	6539.2	6290.3	5863.9	5533.2	5334.8	5235.6	5199.0	5218.2	5235.6	5251.2	5268.6
12.5°	6669.8	6321.7	5719.4	5320.8	5152.0	5113.7	5150.3	5233.8	5294.7	5331.3	5353.9
15°	6840.3	6349.5	5552.3	5108.5	4995.4	5038.9	5162.5	5306.9	5413.1	5481.0	5491.4
17.5°	6997.0	6347.8	5338.3	4894.4	4868.3	4995.4	5181.6	5385.2	5528.0	5623.7	5642.8
20°	7158.9	6300.8	5089.4	4685.5	4739.5	4948.4	5190.3	5435.7	5608.0	5719.4	5745.5
22.5°	7310.3	6219.0	4816.1	4495.8	4631.6	4885.7	5157.2	5406.1	5578.4	5669.0	5696.8
25°	7413.0	6076.2	4539.3	4335.7	4535.9	4809.1	5049.3	5249.5	5378.3	5423.5	5430.5
27.5°	7465.2	5890.0	4278.3	4196.5	4436.7	4683.8	4849.2	4948.4	4984.9	4981.4	4974.5
30°	7472.2	5644.6	4053.7	4083.3	4321.8	4499.3	4577.6	4558.5	4511.5	4431.4	4438.4
32.5°	7449.5	5367.8	3865.8	3975.4	4175.6	4274.8	4278.3	4186.0	4060.7	3933.6	3898.8
35°	7456.5	5096.3	3700.4	3853.6	3998.0	4041.5	4001.5	3865.8	3695.2	3531.6	3496.8
37.5°	7533.1	4859.6	3557.7	3712.6	3801.4	3811.8	3754.4	3611.6	3486.3	3326.2	3312.3
40°	7715.8	4690.8	3421.9	3554.2	3604.7	3609.9	3528.1	3427.1	3437.6	3352.3	3350.5
42.5°	8044.8	4617.7	3301.8	3388.8	3420.2	3430.6	3368.0	3303.6	3394.1	3338.4	3319.2
45°	8469.5	4635.1	3200.9	3227.0	3284.4	3333.1	3294.9	3216.5	3251.3	3009.4	2929.3
47.5°	8960.3	4746.5	3120.8	3087.7	3186.9	3279.2	3220.0	3101.7	2978.1	2737.9	2692.6
50°	9534.7	4918.8	3047.7	2950.2	3080.8	3206.1	3146.9	2978.1	2791.8	2675.2	2659.6
52.5°	10133.5	5129.4	2974.6	2798.8	2946.7	3150.4	3120.8	2950.2	2720.5	2605.6	2584.7
55°	10812.3	5341.7	2882.3	2623.0	2802.3	3124.3	3108.6	2849.3	2666.5	2602.1	2586.5
57.5°	11656.4	5583.7	2760.5	2440.2	2666.5	3030.3	2981.6	2788.4	2610.8	2562.1	2556.9
60°	12756.5	5940.5	2584.7	2245.3	2501.2	2885.8	2875.4	2699.6	2522.1	2487.2	2480.3
62.5°	14406.5	6530.5	2342.8	2050.4	2316.7	2640.4	2736.1	2579.5	2428.1	2426.3	2429.8
65°	16965.1	7418.2	2080.0	1879.8	2130.4	2433.3	2574.3	2455.9	2332.3	2367.1	2372.4
67.5°	19931.0	8154.5	1822.4	1712.7	1940.7	2236.6	2428.1	2332.3	2205.3	2295.8	2297.5
70°	20917.9	7496.5	1596.1	1547.3	1744.0	2046.9	2269.7	2196.6	2067.8	2158.3	2149.6
72°	19466.3	6051.9	1449.9	1422.0	1596.1	1890.2	2128.7	2069.5	1942.4	2003.4	1980.7
72.5°	19008.5	5769.9	1413.3	1390.7	1556.0	1850.2	2092.1	2038.2	1911.1	1963.3	1942.4
75°	16956.4	5011.0	1214.9	1220.1	1357.6	1655.3	1886.8	1869.3	1738.8	1744.0	1737.1
77.5°	12298.7	3674.3	1023.4	1058.3	1155.7	1455.1	1679.6	1669.2	1526.5	1500.4	1495.1
80°	5707.2	1874.6	833.7	849.4	950.3	1216.6	1432.5	1418.5	1303.7	1270.6	1251.5
82.5°	1954.6	891.2	626.6	637.0	736.3	979.9	1242.7	1234.0	1138.3	1073.9	1033.9
85°	698.0	443.8	438.6	428.2	525.6	771.1	1082.6	1035.6	894.6	762.4	758.9
87.5°	226.3	189.7	226.3	224.5	306.3	522.2	786.7	670.1	649.2	539.6	529.1
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)