

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: P317744

Luminaire Tested: **GAN-SA0D-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71509 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

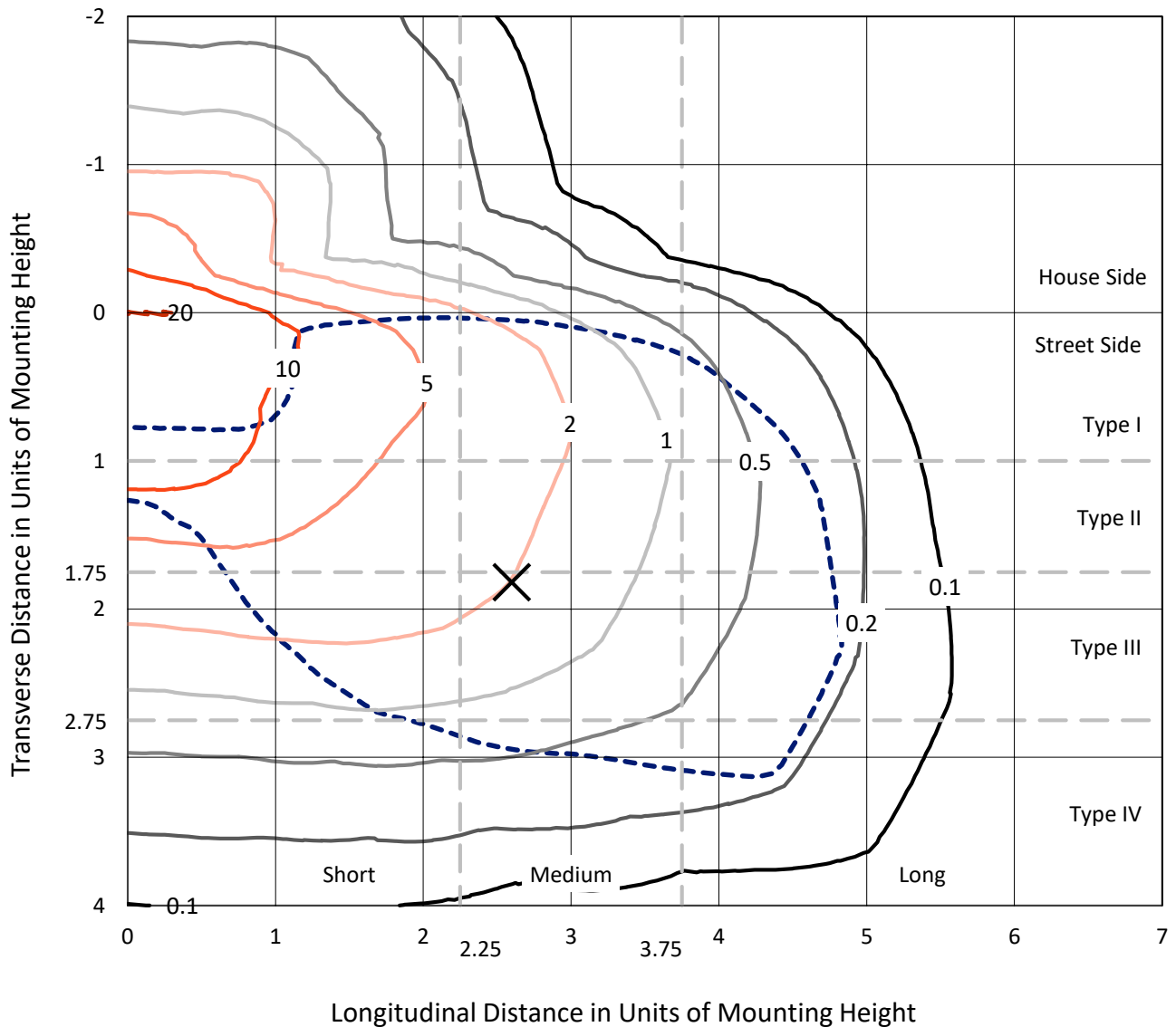
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

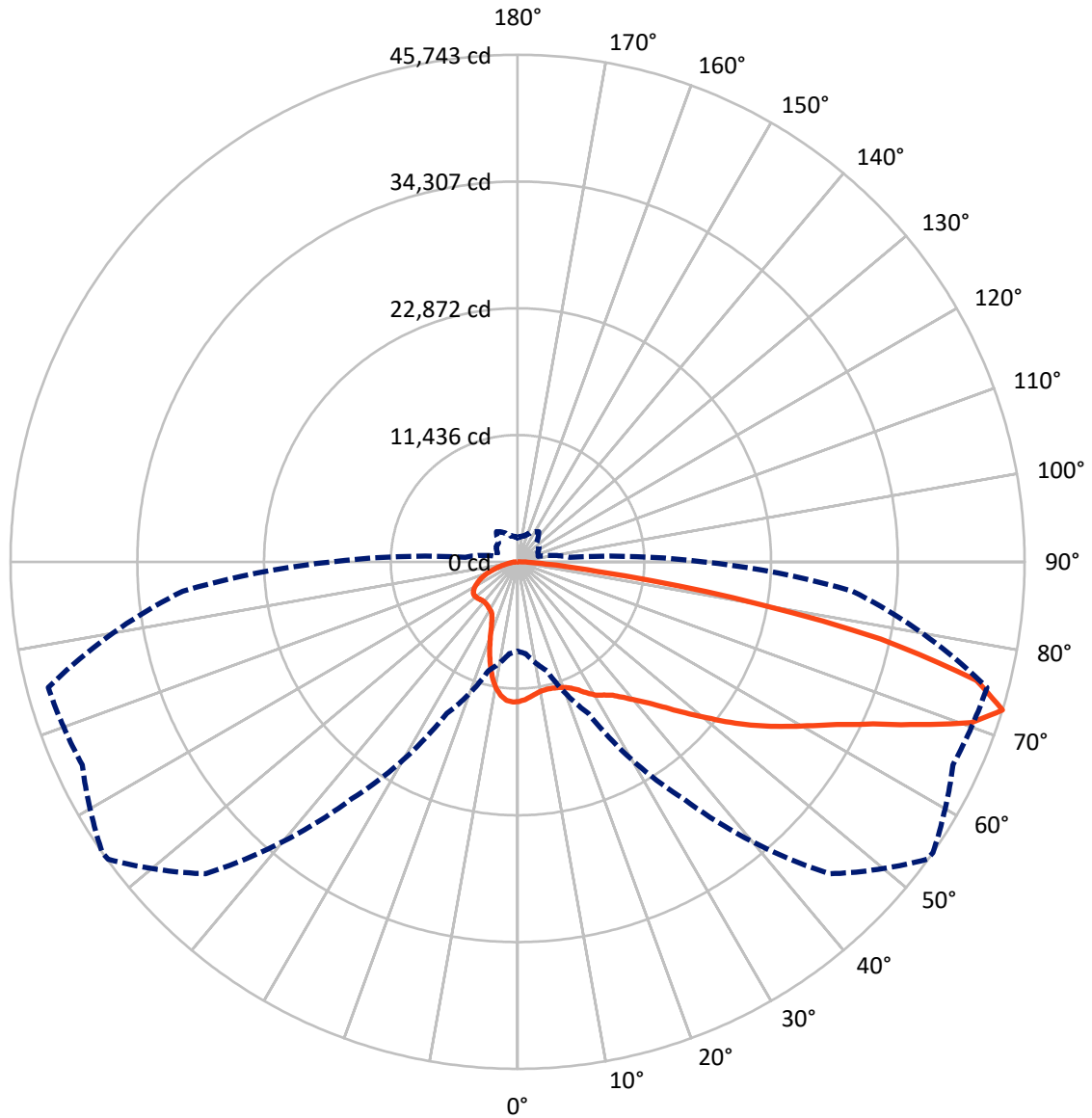
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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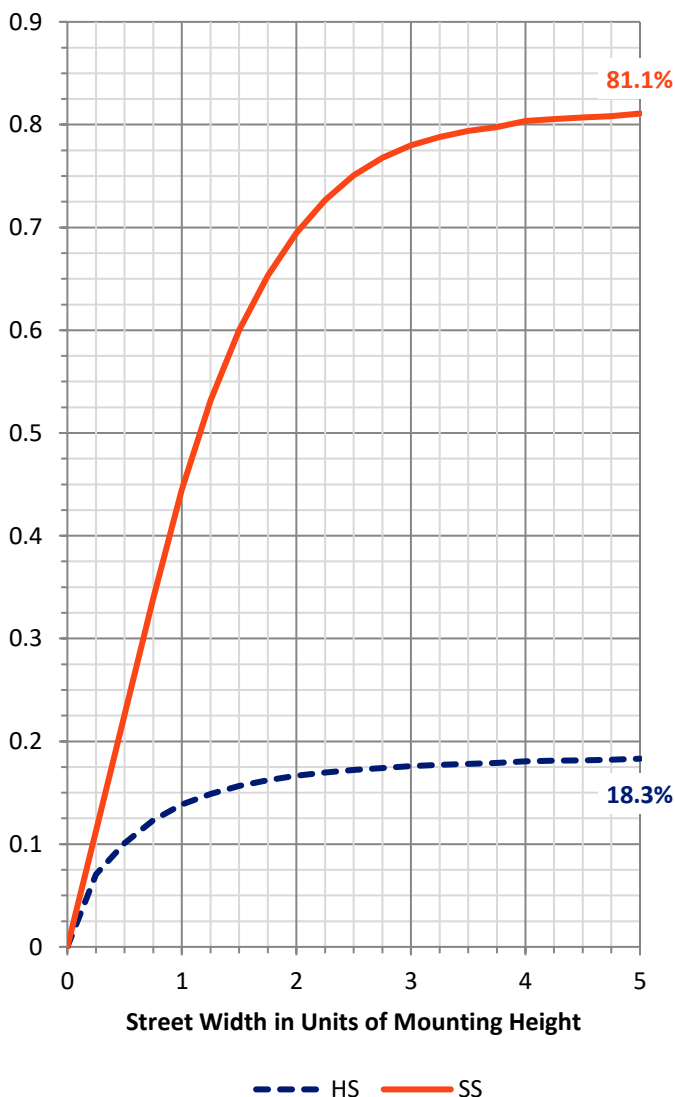
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13291.2	0.0	13291.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	58217.8	0.0	58217.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	71509.0	0.0	71509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.3	1.6
10°-20°	3038.5	4.2
20°-30°	5009.8	7.0
30°-40°	7410.8	10.4
40°-50°	10343.9	14.5
50°-60°	13468.1	18.8
60°-70°	16551.8	23.1
70°-80°	12974.7	18.1
80°-90°	1570.1	2.2
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°	71509.0	100.0
0°-180°	71509.0	100.0

Coefficient of Utilization

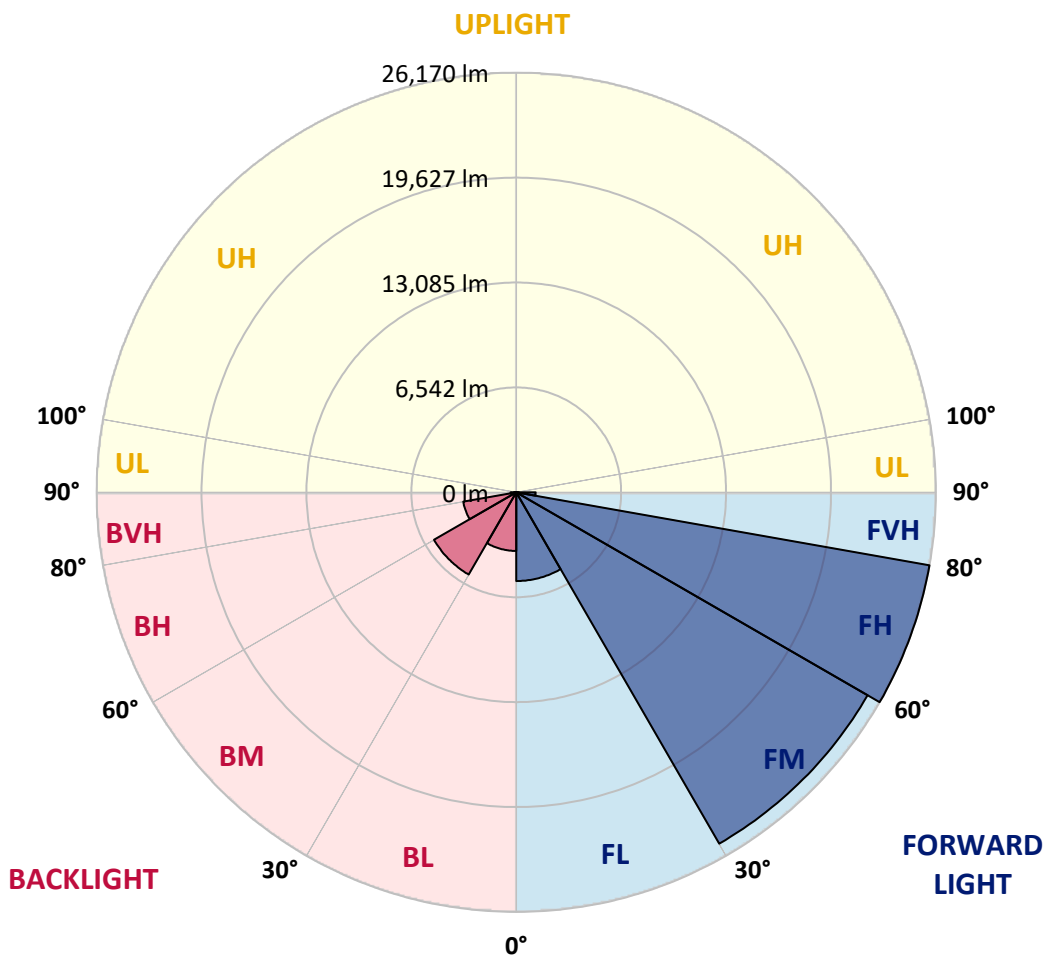


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5532.7	7.7			
FM (30°-60°)	25301.3	35.4			
FH (60°-80°)	26169.9	36.6			G5
FVH (80°-90°)	1213.9	1.7			G5
BL (0°-30°)	3657.0	5.1	B4/5000		
BM (30°-60°)	5921.4	8.3	B4/8500		
BH (60°-80°)	3356.6	4.7	B4/5000		G4/5000
BVH (80°-90°)	356.2	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6
2.5°	12202.0	12173.1	12209.3	12260.0	12315.6	12390.4	12433.9	12453.2	12528.1	12557.1	12619.9
5°	11636.9	11622.4	11682.8	11769.7	11892.9	12066.8	12206.9	12233.4	12431.5	12571.6	12699.6
7.5°	11226.3	11226.3	11296.3	11400.2	11537.8	11772.1	11970.2	12006.4	12342.1	12644.0	12880.7
10°	10900.2	10912.3	10994.4	11117.6	11279.4	11528.2	11791.5	11832.5	12318.0	12813.1	13189.9
12.5°	10682.8	10711.8	10786.7	10897.8	11098.3	11400.2	11733.5	11789.0	12368.7	13054.6	13561.9
15°	10820.5	10868.8	10876.1	10921.9	11033.0	11361.5	11767.3	11825.3	12477.4	13301.0	13984.5
17.5°	11424.3	11441.2	11366.4	11269.7	11216.6	11426.7	11868.7	11929.1	12607.8	13545.0	14390.3
20°	12342.1	12332.5	12170.7	11909.8	11639.3	11673.1	12035.4	12098.2	12784.1	13759.9	14796.1
22.5°	13501.5	13467.7	13218.9	12738.2	12276.9	12083.7	12327.6	12380.8	13049.8	14066.7	15230.8
25°	14907.2	14832.3	14503.8	13858.9	13180.2	12682.7	12767.2	12817.9	13436.3	14409.6	15629.3
27.5°	16390.2	16315.3	15897.4	15117.3	14214.0	13438.7	13373.5	13416.9	13875.8	14663.2	15924.0
30°	17940.8	17861.1	17479.5	16605.1	15310.5	14221.2	13938.6	13955.6	14185.0	14800.9	16165.5
32.5°	19498.6	19423.8	18996.3	17981.8	16501.3	15061.8	14346.8	14325.1	14371.0	14943.4	16438.5
35°	21078.2	21107.2	20607.3	19484.2	17820.0	15996.5	14829.9	14784.0	14682.6	15235.7	16824.9
37.5°	22768.9	22749.6	22102.3	20928.5	19199.1	17010.9	15523.1	15515.8	15165.6	15788.8	17431.2
40°	23899.3	23911.4	23517.7	22406.7	20592.8	18134.0	16411.9	16395.0	15936.1	16617.2	18225.8
42.5°	24341.3	24421.0	24522.4	23817.2	22051.6	19435.8	17472.2	17448.1	17010.9	17805.5	19160.5
45°	24372.7	24532.1	25160.1	25070.7	23529.8	20926.1	18827.2	18759.6	18445.6	19385.1	20276.4
47.5°	24102.2	24266.4	25309.8	25817.0	24850.9	22498.4	20411.6	20358.5	20088.0	21360.8	21484.0
50°	23510.4	23667.4	25000.7	26181.8	25937.8	24010.4	22237.6	22097.5	21952.6	23643.3	22865.6
52.5°	22401.8	22703.7	24587.7	26268.7	26587.5	25353.3	24157.7	24066.0	24145.7	26051.3	24249.5
55°	19776.4	20114.5	23522.5	26196.2	27068.2	26481.2	26077.9	26073.1	26486.1	28577.7	25734.9
57.5°	18305.5	18544.6	21353.6	26073.1	27638.2	27601.9	27978.7	28024.6	28828.9	31328.7	27290.4
60°	17474.6	17725.8	20254.6	25616.6	28522.2	29051.1	29918.2	30010.0	31210.4	34374.4	29162.2
62.5°	16718.6	16994.0	19573.5	24686.7	29563.2	31123.4	32241.7	32323.8	33732.0	37504.6	30971.3
65°	15426.5	15738.0	18576.0	24075.6	30510.0	33826.1	35195.6	35251.2	36627.9	40784.6	32355.2
67.5°	13600.5	13885.5	16694.5	22725.5	31210.4	37108.5	39122.9	39154.3	39499.7	43100.9	33062.9
70°	11467.8	11576.5	14013.5	19938.2	30381.9	40178.4	43426.9	43434.2	42117.8	44583.9	32947.0
72.5°	8057.4	8313.4	10173.2	15093.2	26109.3	39804.0	45661.1	45743.2	43335.1	43835.1	30314.3
75°	4941.7	5212.2	6381.2	9146.7	16564.1	31304.6	42187.9	42757.9	41052.7	39084.2	24764.0
77.5°	3304.1	3405.6	4164.0	5333.0	7504.3	18010.8	32434.9	33507.3	34103.9	28502.8	15837.1
80°	1842.9	2036.1	2760.7	3313.8	3337.9	7156.5	19447.9	19699.1	18974.5	11349.5	4886.1
82.5°	975.8	1082.1	1842.9	1946.7	1821.1	2396.0	7248.3	7255.5	6062.4	3043.3	1451.6
85°	756.0	845.4	1263.2	1188.3	929.9	1062.7	2391.1	2521.6	2062.7	1246.3	473.4
87.5°	376.8	468.6	857.4	753.6	364.7	304.3	855.0	913.0	814.0	487.9	171.5
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°	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6	12612.6
2.5°	12644.0	12665.8	12692.4	12663.4	12653.7	12615.1	12549.9	12535.4	12501.5	12504.0	12523.3
5°	12755.2	12791.4	12776.9	12665.8	12532.9	12347.0	12153.7	11989.5	11880.8	11873.6	11866.3
7.5°	12967.7	12991.8	12878.3	12561.9	12190.0	11760.1	11354.3	10999.2	10784.3	10731.1	10719.1
10°	13301.0	13296.2	12984.6	12347.0	11605.5	10837.4	10185.3	9692.6	9405.1	9320.6	9298.9
12.5°	13673.0	13617.4	13020.8	11955.7	10779.4	9714.3	8888.3	8340.0	8040.5	7943.9	7919.7
15°	14057.0	13919.3	12931.5	11371.2	9765.0	8504.2	7637.1	7129.9	6968.1	6915.0	6905.3
17.5°	14414.5	14148.8	12675.4	10579.0	8608.1	7299.0	6622.7	6419.8	6458.5	6528.5	6530.9
20°	14764.7	14303.4	12264.8	9579.0	7388.4	6306.3	6076.9	6226.6	6410.2	6552.7	6572.0
22.5°	15110.1	14412.0	11735.9	8424.5	6296.7	5748.4	5910.2	6183.1	6393.3	6547.9	6574.4
25°	15399.9	14438.6	11006.5	7192.7	5538.3	5538.3	5830.5	6088.9	6296.7	6448.8	6475.4
27.5°	15506.2	14259.9	9977.6	6052.7	5156.6	5441.7	5719.4	5934.4	6110.7	6272.5	6301.5
30°	15547.2	13929.0	8789.2	5137.3	4999.7	5337.8	5569.7	5753.2	5919.9	6072.0	6098.6
32.5°	15554.5	13530.5	7528.5	4618.0	4891.0	5229.1	5383.7	5545.5	5724.2	5784.6	5794.3
35°	15600.4	13059.5	6200.1	4352.4	4789.5	5127.7	5250.8	5366.8	5076.9	5098.7	5118.0
37.5°	15733.2	12593.3	5089.0	4202.6	4724.3	5074.5	5221.9	4801.6	4574.6	4521.4	4514.2
40°	15982.0	12095.8	4265.4	4081.8	4700.2	5101.1	5035.9	4482.8	4091.5	3799.3	3755.8
42.5°	16327.4	11559.6	3738.9	4002.1	4717.1	5229.1	4777.4	4176.0	3526.3	3337.9	3313.8
45°	16716.2	10996.8	3453.9	3946.6	4775.0	5328.1	4724.3	3767.9	3263.1	3120.6	3108.5
47.5°	17093.0	10308.5	3306.5	3922.4	4854.7	5248.4	4499.7	3642.3	3137.5	3062.6	3069.8
50°	17525.4	9687.7	3217.2	3895.9	4924.8	5197.7	4246.1	3577.0	3089.2	3180.9	3277.5
52.5°	17890.1	9045.3	3137.5	3842.7	4951.3	5108.3	4180.9	3589.1	3089.2	3265.5	3357.3
55°	18322.4	8559.8	3045.7	3731.6	4900.6	4854.7	4135.0	3661.6	3125.4	3014.3	3023.9
57.5°	18880.3	8400.4	2944.2	3557.7	4731.6	4485.2	4113.2	3731.6	3103.6	3033.6	3057.8
60°	19653.2	8569.5	2903.2	3330.7	4468.3	4195.4	4115.7	3695.4	2951.5	2830.7	2833.1
62.5°	20389.9	8757.8	2900.8	3188.2	4144.6	3936.9	4060.1	3577.0	2874.2	2804.2	2830.7
65°	20631.4	8567.0	2784.8	3028.8	3779.9	3627.8	3958.7	3451.5	2816.2	2710.0	2705.1
67.5°	20307.8	7975.3	2550.5	2770.3	3362.1	3267.9	3825.8	3301.7	2724.4	2637.5	2623.0
70°	19346.5	6654.1	2260.7	2429.8	2886.3	2862.1	3615.7	3127.8	2601.3	2526.4	2463.6
72.5°	16759.7	4741.2	1905.7	2021.6	2350.1	2427.4	3325.9	2900.8	2427.4	2265.5	2168.9
75°	13764.7	3509.4	1565.1	1589.3	1784.9	1995.0	2927.3	2635.1	2222.1	1946.7	1871.9
77.5°	8429.4	2147.2	1246.3	1256.0	1280.1	1591.7	2410.5	2338.0	1961.2	1623.1	1569.9
80°	2729.3	1171.4	900.9	946.8	874.3	1166.6	1864.6	1990.2	1683.5	1357.4	1299.4
82.5°	1038.6	683.5	608.7	640.1	606.2	782.6	1359.8	1594.1	1379.1	1115.9	908.1
85°	502.4	386.4	359.9	403.4	374.4	400.9	869.5	1173.8	1045.8	727.0	676.3
87.5°	178.7	171.5	137.7	186.0	159.4	142.5	265.7	591.7	690.8	500.0	446.8
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)