

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: P321572

Luminaire Tested: **GAN-SA8C-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39705 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

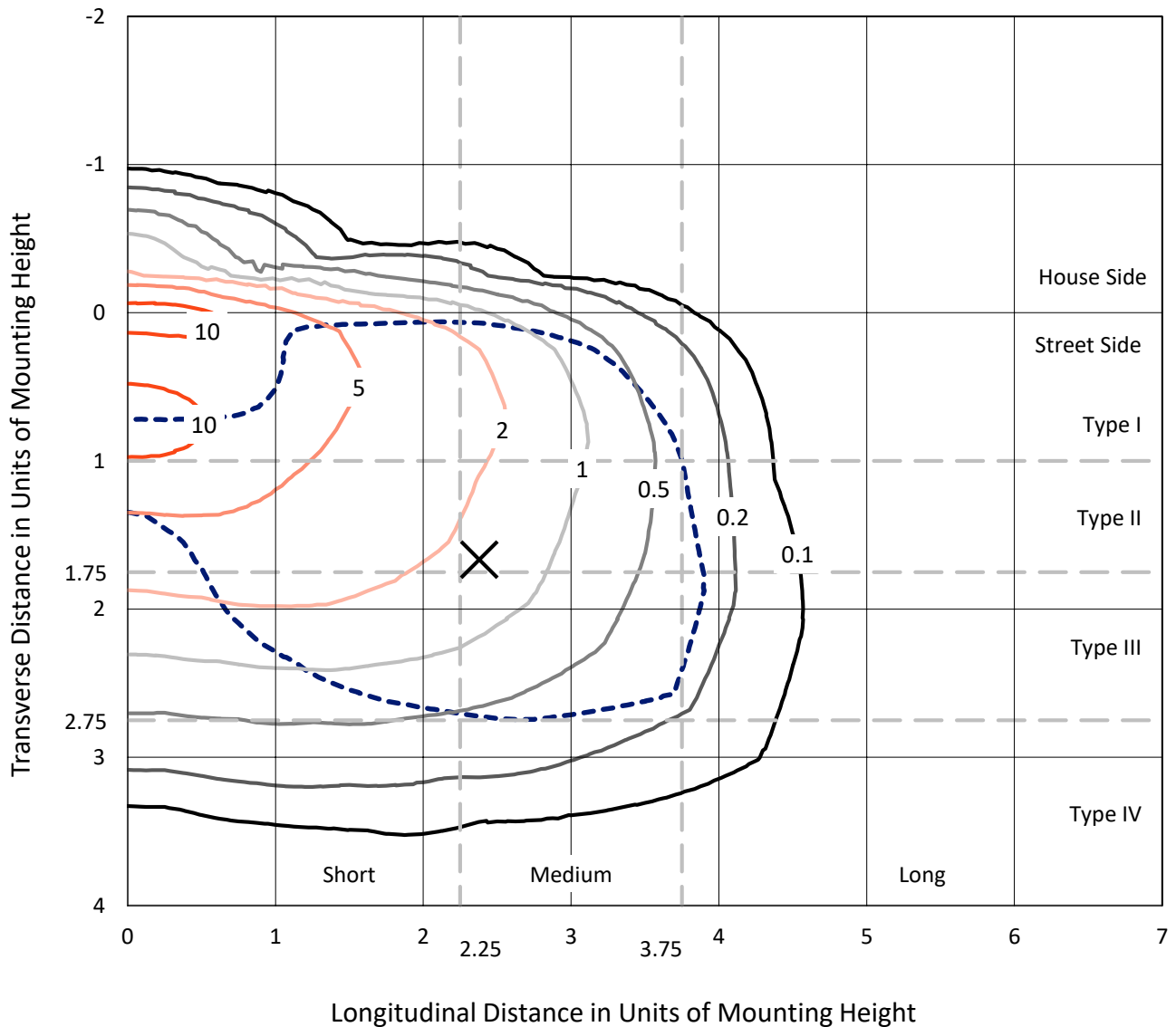
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

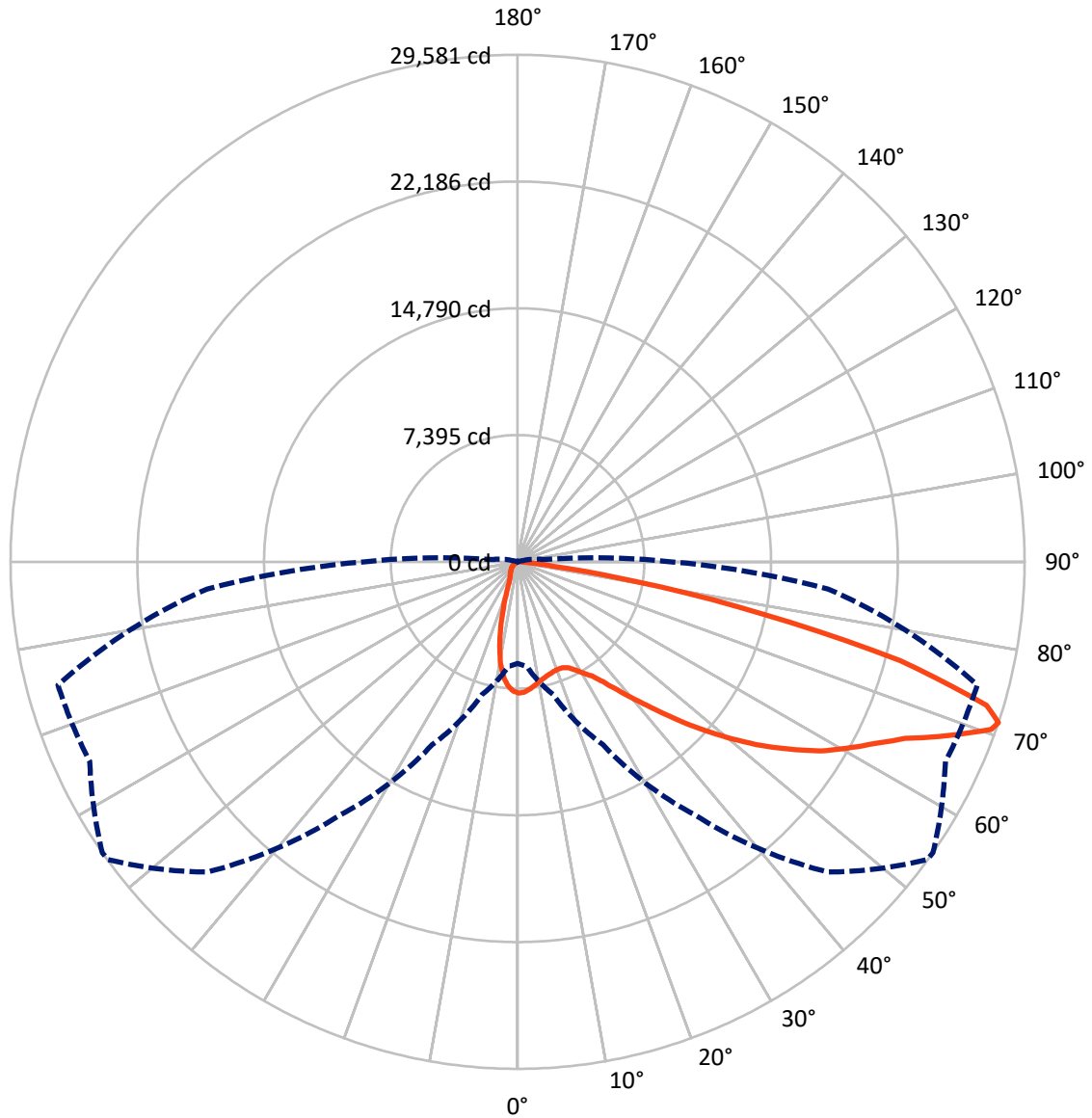
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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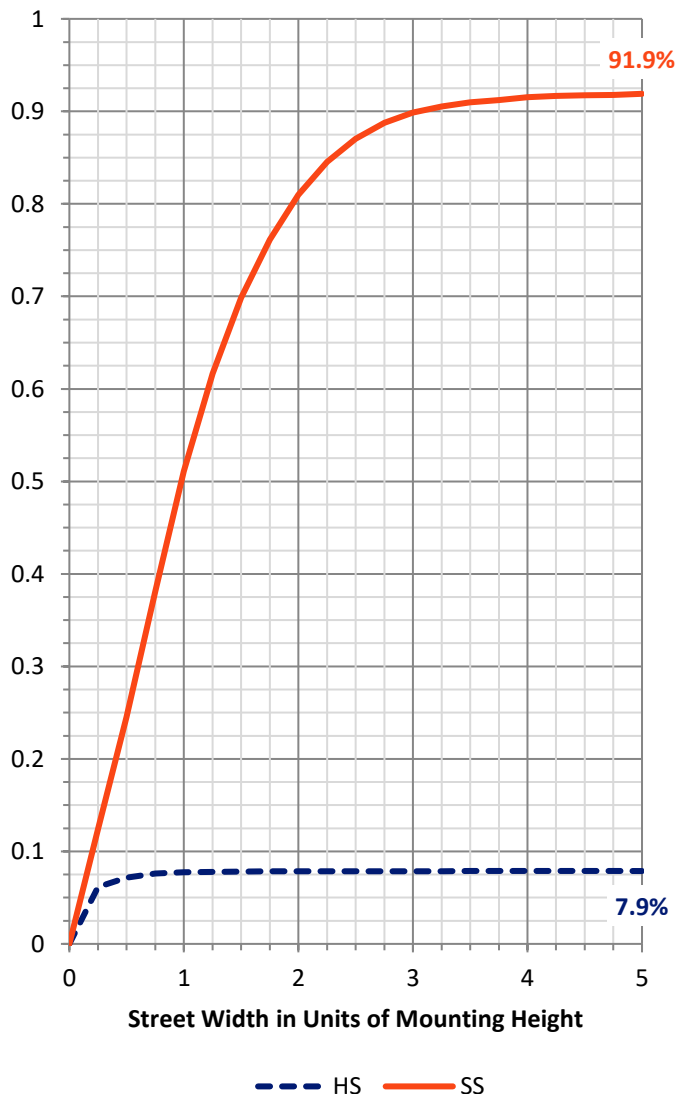
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3143.5	0.0	3143.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	36561.5	0.0	36561.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	39705.0	0.0	39705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.9	1.6
10°-20°	1473.9	3.7
20°-30°	2368.7	6.0
30°-40°	4024.5	10.1
40°-50°	6246.5	15.7
50°-60°	8398.2	21.2
60°-70°	10273.8	25.9
70°-80°	6006.9	15.1
80°-90°	259.7	0.7
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°	39705.0	100.0
0°-180°	39705.0	100.0

Coefficient of Utilization

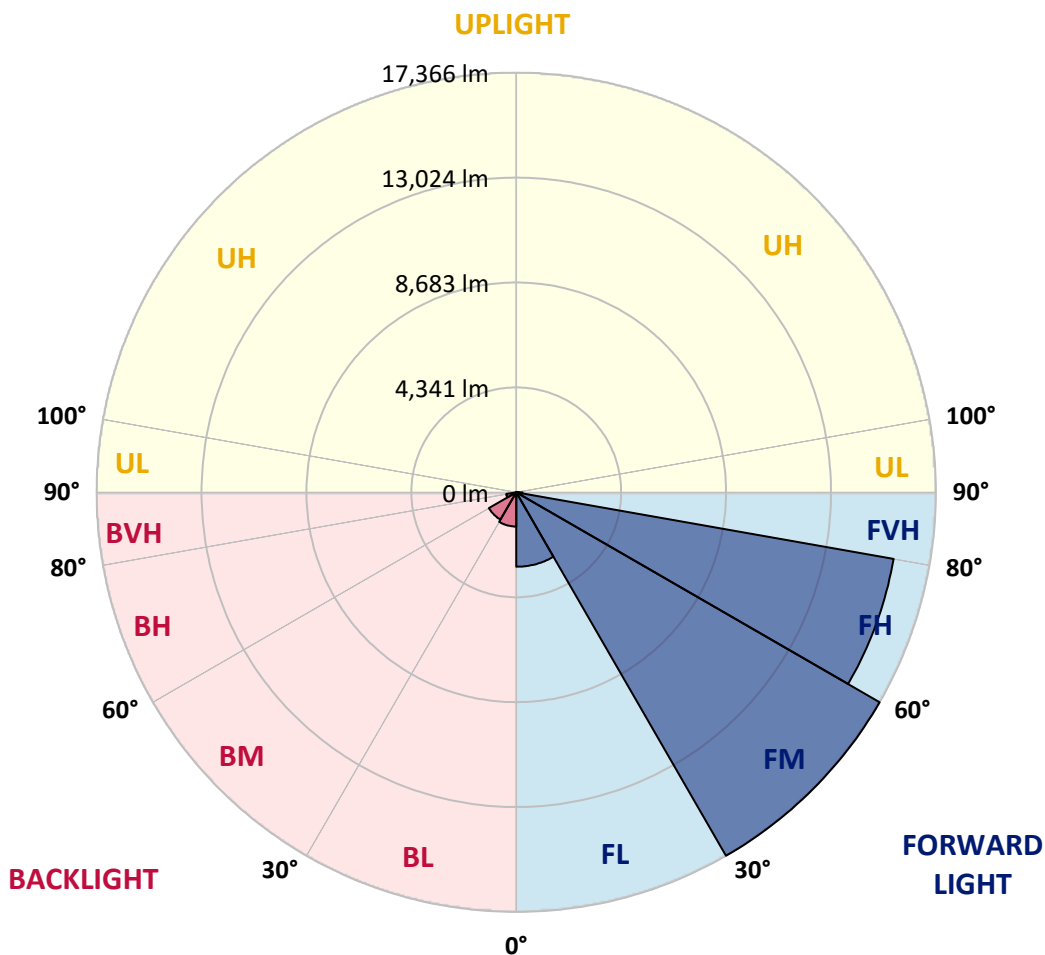


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3080.6	7.8			
FM (30°-60°)	17365.8	43.7			
FH (60°-80°)	15859.5	39.9			G5
FVH (80°-90°)	255.6	0.6			G3/500
BL (0°-30°)	1414.9	3.6	B3/2500		
BM (30°-60°)	1303.4	3.3	B2/2500		
BH (60°-80°)	421.2	1.1	B1/500		G1/500
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: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3
2.5°	7432.6	7441.5	7473.6	7487.9	7521.8	7578.8	7607.3	7609.1	7655.5	7673.3	7687.6
5°	6906.7	6960.2	7013.7	7070.7	7174.1	7311.4	7446.9	7459.4	7609.1	7719.7	7778.5
7.5°	6453.8	6502.0	6566.2	6657.1	6803.3	7019.0	7245.4	7272.2	7555.6	7807.0	7938.9
10°	5988.5	6027.7	6120.5	6254.2	6455.6	6744.4	7049.3	7093.9	7507.5	7924.7	8156.4
12.5°	5491.1	5514.3	5626.6	5819.2	6115.1	6482.4	6883.5	6942.3	7477.2	8060.2	8413.2
15°	5113.2	5123.9	5230.8	5430.5	5769.2	6247.0	6755.1	6826.5	7484.3	8222.4	8693.1
17.5°	5016.9	5022.2	5079.3	5216.6	5516.1	6036.7	6653.5	6740.9	7505.7	8381.1	8974.8
20°	5407.3	5369.9	5311.0	5289.7	5418.0	5910.1	6592.9	6691.0	7534.2	8521.9	9227.9
22.5°	6478.8	6368.3	6124.0	5797.8	5599.9	5919.0	6608.9	6707.0	7625.2	8694.9	9520.3
25°	8069.1	7915.8	7500.4	6858.5	6241.7	6175.7	6742.7	6842.5	7801.7	8901.7	9800.2
27.5°	9878.7	9727.1	9219.0	8302.6	7250.8	6683.8	7049.3	7142.0	8063.7	9085.3	10014.2
30°	11611.6	11568.8	10969.7	9928.6	8520.1	7507.5	7445.1	7523.5	8258.1	9195.8	10183.5
32.5°	13080.6	13012.9	12531.5	11518.9	9973.1	8497.0	7910.4	7933.6	8404.3	9338.5	10404.6
35°	14442.7	14358.9	13936.4	12979.0	11463.6	9705.7	8627.1	8593.2	8723.4	9625.5	10725.5
37.5°	15631.8	15708.5	15239.6	14328.6	12800.7	10962.6	9593.4	9491.8	9222.6	10092.6	11190.8
40°	16626.7	16626.7	16382.4	15622.9	14244.8	12262.3	10686.3	10552.6	9973.1	10812.9	11780.9
42.5°	16985.0	17061.7	17152.6	16722.9	15537.4	13613.7	11904.0	11764.9	11030.4	11834.4	12526.2
45°	17006.4	17127.6	17593.0	17591.2	16705.1	14956.2	13276.7	13210.8	12385.3	13146.6	13449.7
47.5°	16705.1	16856.7	17623.3	18058.3	17630.4	16205.9	14777.9	14695.9	13977.4	14754.7	14416.0
50°	16239.8	16407.4	17298.8	18241.9	18259.7	17293.4	16359.2	16236.2	15729.9	16592.8	15414.3
52.5°	15407.2	15731.7	17008.2	18284.7	18673.4	18233.0	17863.9	17810.5	17691.0	18363.1	16209.5
55°	13626.2	13986.3	16279.0	18299.0	19056.7	19065.6	19274.2	19288.4	19529.1	20017.6	16801.4
57.5°	12784.7	12987.9	15006.1	18366.7	19625.4	20010.5	20711.1	20821.7	21194.3	21588.3	17477.1
60°	12255.2	12495.9	14378.5	18274.0	20518.6	21249.5	22042.9	22080.3	22479.7	23208.9	18391.7
62.5°	11832.6	12069.8	13982.7	17917.4	21522.3	22740.0	23344.4	23347.9	23647.4	25139.7	19431.1
65°	10789.7	10989.4	13182.2	17516.3	22185.5	24214.4	24856.2	24833.0	25077.3	27175.7	20638.0
67.5°	9281.4	9434.7	11547.4	15995.5	21935.9	25555.1	27138.2	27061.6	26765.6	28935.3	21112.3
70°	7175.9	7231.2	9101.3	13330.2	19596.9	26070.3	29343.6	29304.4	27801.4	28619.8	19374.0
71°	5931.5	6113.3	8020.9	11764.9	18029.8	25594.3	29557.5	29580.7	27541.1	27760.4	18177.7
72.5°	3444.4	3599.5	5813.8	9035.4	15307.4	23608.2	28448.6	28616.2	26325.3	25250.2	15526.7
75°	738.1	789.8	2155.4	4373.3	8420.3	16546.4	22454.7	23052.0	21456.4	17177.6	9358.1
77.5°	513.5	554.5	923.5	1984.3	2783.0	8176.1	13948.9	14622.8	12818.5	6455.6	2995.2
80°	406.5	452.8	720.3	980.6	752.4	2636.8	6534.1	6945.9	4275.2	1440.5	504.5
82.5°	226.4	269.2	561.6	529.5	288.8	501.0	1829.2	2068.1	855.8	290.6	119.4
85°	66.0	80.2	361.9	385.1	123.0	96.3	312.0	386.9	162.2	76.7	53.5
87.5°	0.0	0.0	174.7	148.0	35.7	14.3	28.5	32.1	32.1	32.1	35.7
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°	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3	7657.3
2.5°	7687.6	7700.0	7655.5	7596.6	7534.2	7457.6	7377.3	7314.9	7313.2	7282.9	7252.5
5°	7782.0	7774.9	7651.9	7464.7	7243.6	7013.7	6794.4	6546.5	6464.5	6362.9	6329.0
7.5°	7956.8	7906.8	7646.6	7236.5	6751.6	6270.2	5772.8	5271.8	5057.9	4865.3	4831.5
10°	8176.1	8081.6	7612.7	6894.2	6004.6	5116.7	4366.1	3685.1	3385.6	3155.6	3144.9
12.5°	8404.3	8259.8	7518.2	6377.2	5025.8	3777.8	2913.1	2242.8	1993.2	1832.7	1847.0
15°	8643.2	8427.4	7314.9	5680.1	3911.5	2563.7	1790.0	1396.0	1296.1	1255.1	1265.8
17.5°	8887.4	8543.3	7031.5	4840.4	2811.5	1654.5	1239.1	1128.5	1128.5	1137.4	1141.0
20°	9099.6	8605.7	6614.3	3899.0	1905.8	1205.2	1084.0	1067.9	1076.8	1091.1	1092.9
22.5°	9309.9	8609.3	6070.5	2945.2	1333.6	1055.4	1032.3	1025.1	1030.5	1046.5	1048.3
25°	9481.1	8566.5	5389.5	2094.8	1064.3	994.8	984.1	980.6	984.1	1003.7	1003.7
27.5°	9550.6	8411.4	4558.7	1472.6	953.8	927.1	923.5	927.1	932.4	946.7	948.5
30°	9557.7	8140.4	3653.0	1066.1	864.7	836.1	843.3	855.8	850.4	846.8	850.4
32.5°	9575.6	7826.6	2770.5	877.2	789.8	745.2	736.3	736.3	714.9	702.4	695.3
35°	9634.4	7457.6	2009.2	788.0	713.1	661.4	627.6	588.3	547.3	525.9	520.6
37.5°	9727.1	7070.7	1438.7	729.2	645.4	586.6	522.4	452.8	394.0	378.0	378.0
40°	9896.5	6671.3	1064.3	682.8	591.9	518.8	422.5	331.6	278.1	269.2	269.2
42.5°	10163.9	6250.6	848.6	641.8	545.5	449.3	322.7	240.7	201.5	196.1	194.3
45°	10442.0	5787.1	741.7	602.6	495.6	369.0	238.9	178.3	155.1	149.8	149.8
47.5°	10720.2	5293.2	690.0	565.2	447.5	287.0	178.3	140.8	130.1	130.1	131.9
50°	10955.5	4778.0	652.5	524.2	385.1	217.5	140.8	119.4	115.9	123.0	124.8
52.5°	11014.3	4271.7	606.2	472.4	308.4	165.8	115.9	105.2	105.2	105.2	105.2
55°	10978.7	3879.4	545.5	408.3	228.2	131.9	99.8	92.7	90.9	90.9	90.9
57.5°	11099.9	3647.7	436.8	317.3	164.0	107.0	87.4	82.0	78.4	76.7	76.7
60°	11344.1	3496.1	312.0	228.2	123.0	89.1	74.9	69.5	64.2	60.6	60.6
62.5°	11668.6	3364.2	231.8	169.4	94.5	71.3	62.4	57.1	49.9	46.4	46.4
65°	11918.2	3128.9	176.5	126.6	71.3	57.1	48.1	46.4	35.7	32.1	30.3
67.5°	11536.7	2611.8	142.6	92.7	53.5	44.6	37.4	35.7	21.4	17.8	17.8
70°	9894.7	1818.5	114.1	67.7	39.2	35.7	30.3	23.2	16.0	14.3	14.3
71°	8973.0	1519.0	103.4	57.1	33.9	33.9	28.5	19.6	14.3	12.5	12.5
72.5°	7454.0	1078.6	87.4	44.6	30.3	35.7	30.3	17.8	14.3	12.5	10.7
75°	4326.9	451.1	60.6	30.3	23.2	42.8	39.2	16.0	10.7	8.9	8.9
77.5°	1301.5	165.8	33.9	19.6	17.8	37.4	44.6	14.3	5.3	1.8	1.8
80°	237.1	71.3	21.4	12.5	12.5	23.2	33.9	7.1	0.0	0.0	0.0
82.5°	83.8	35.7	12.5	7.1	5.3	10.7	16.0	0.0	0.0	0.0	0.0
85°	48.1	25.0	7.1	3.6	0.0	1.8	3.6	0.0	0.0	0.0	0.0
87.5°	32.1	7.1	0.0	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)