

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: P322532

Luminaire Tested: **GAN-SA8C-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36661 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

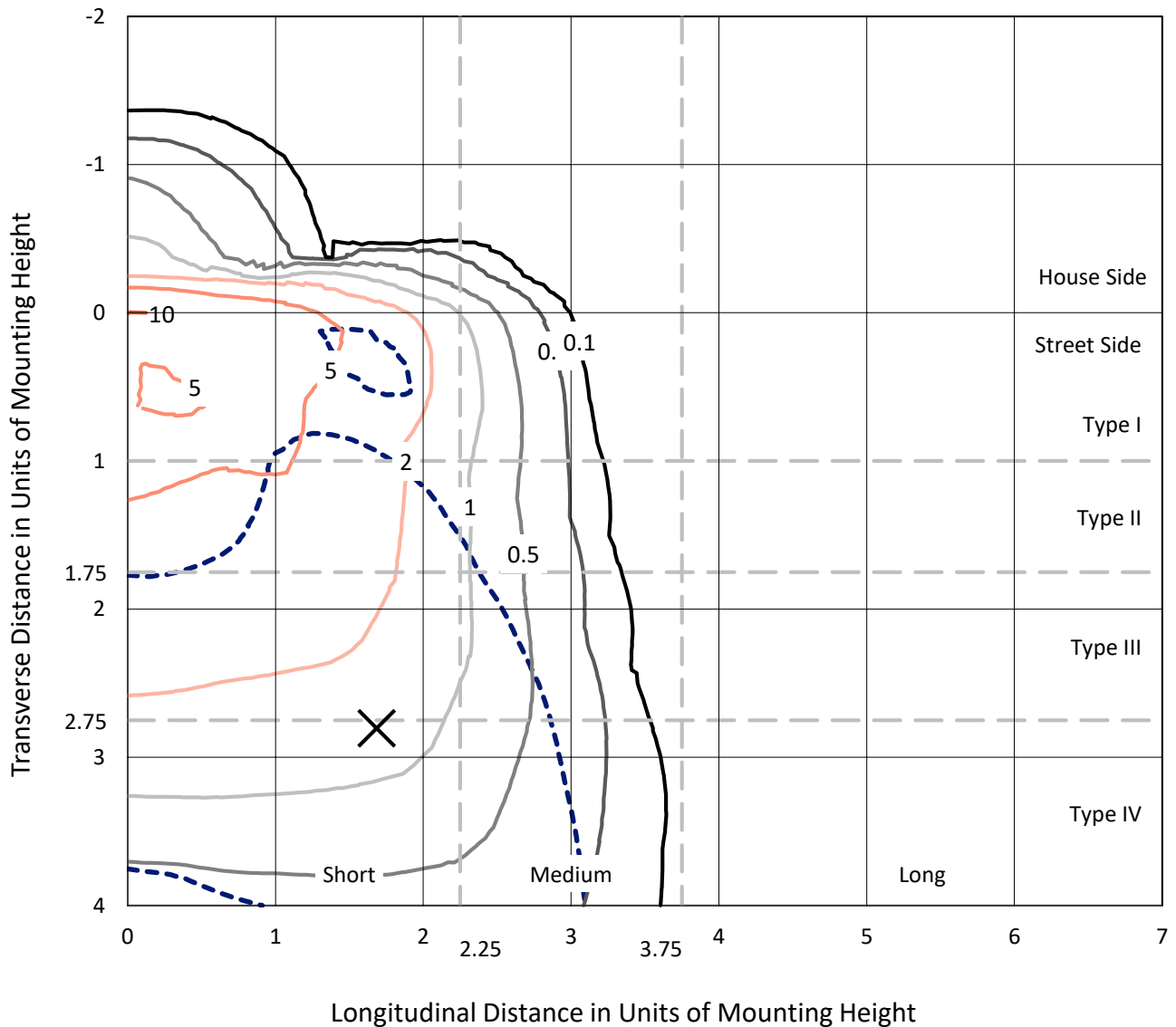
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

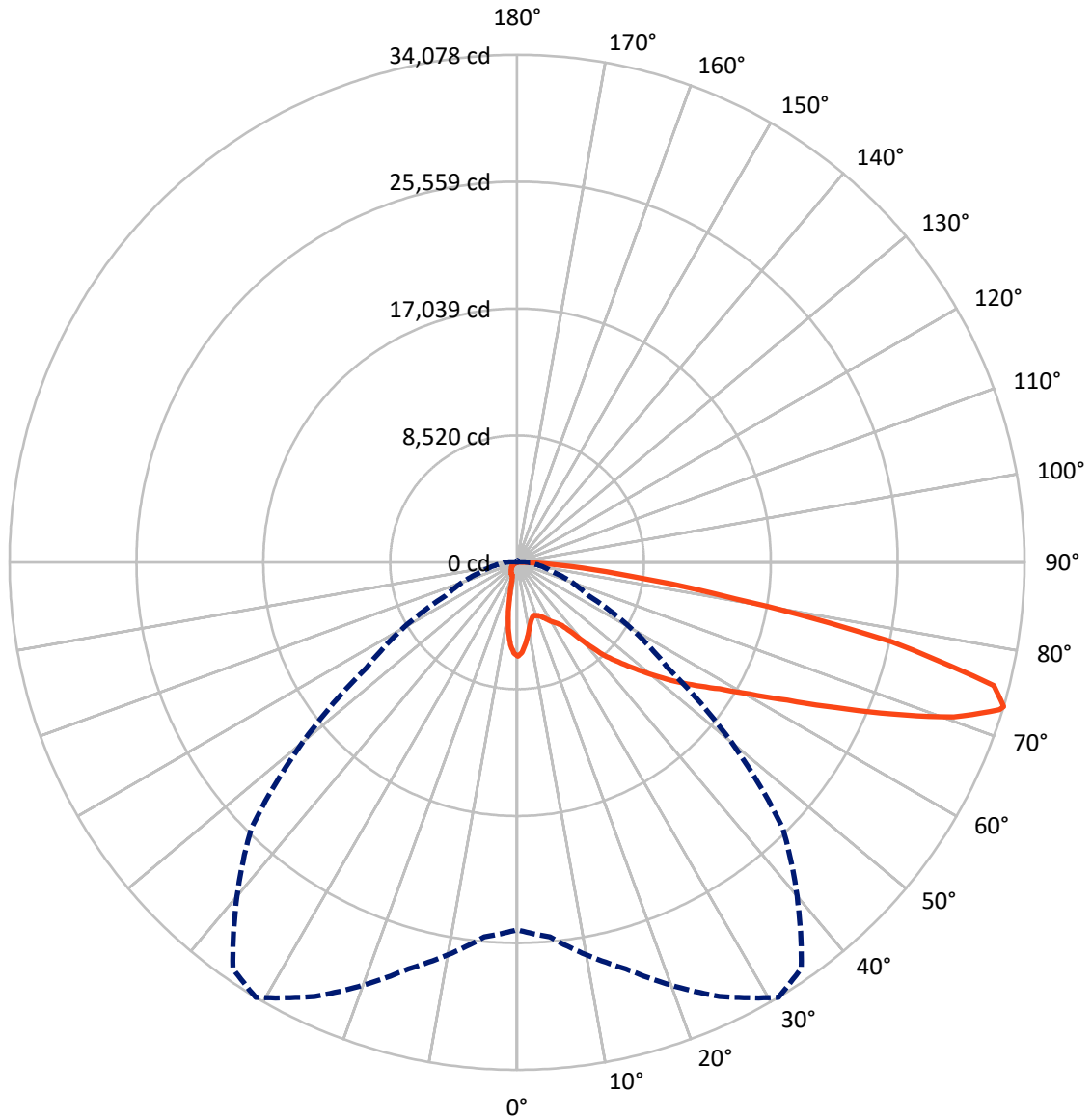
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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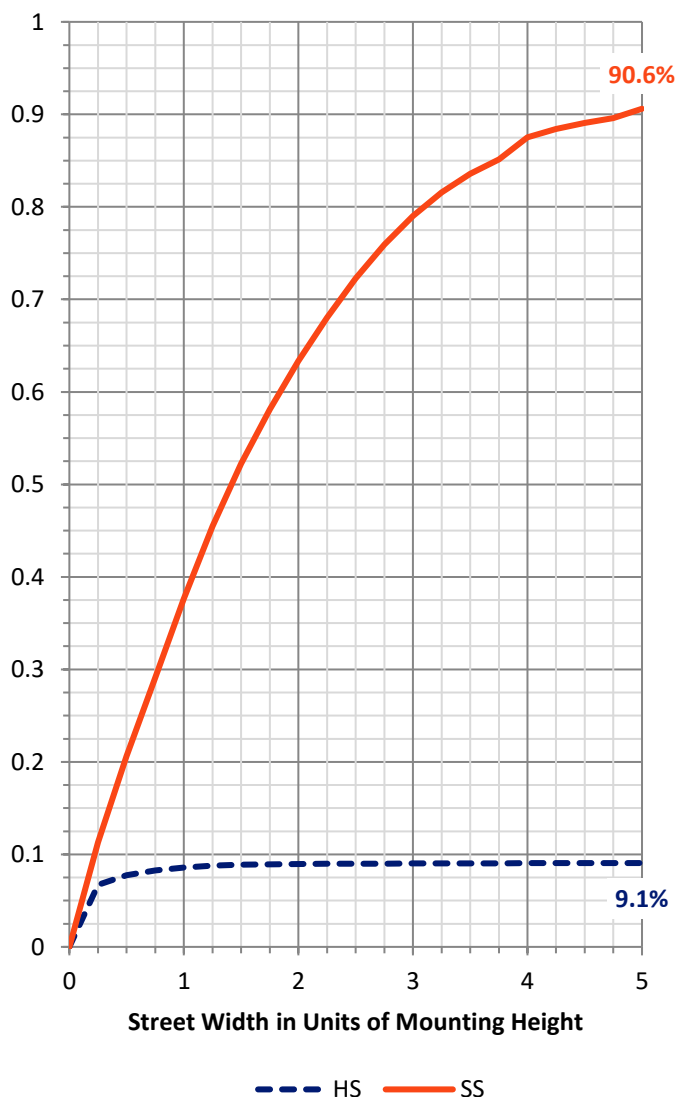
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.8	0.0	3341.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	33319.2	0.0	33319.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	36661.0	0.0	36661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.0	1.4
10°-20°	1135.6	3.1
20°-30°	1701.4	4.6
30°-40°	2706.9	7.4
40°-50°	4833.8	13.2
50°-60°	7500.7	20.5
60°-70°	9971.2	27.2
70°-80°	7500.3	20.5
80°-90°	788.1	2.1
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°	36661.0	100.0
0°-180°	36661.0	100.0

Coefficient of Utilization



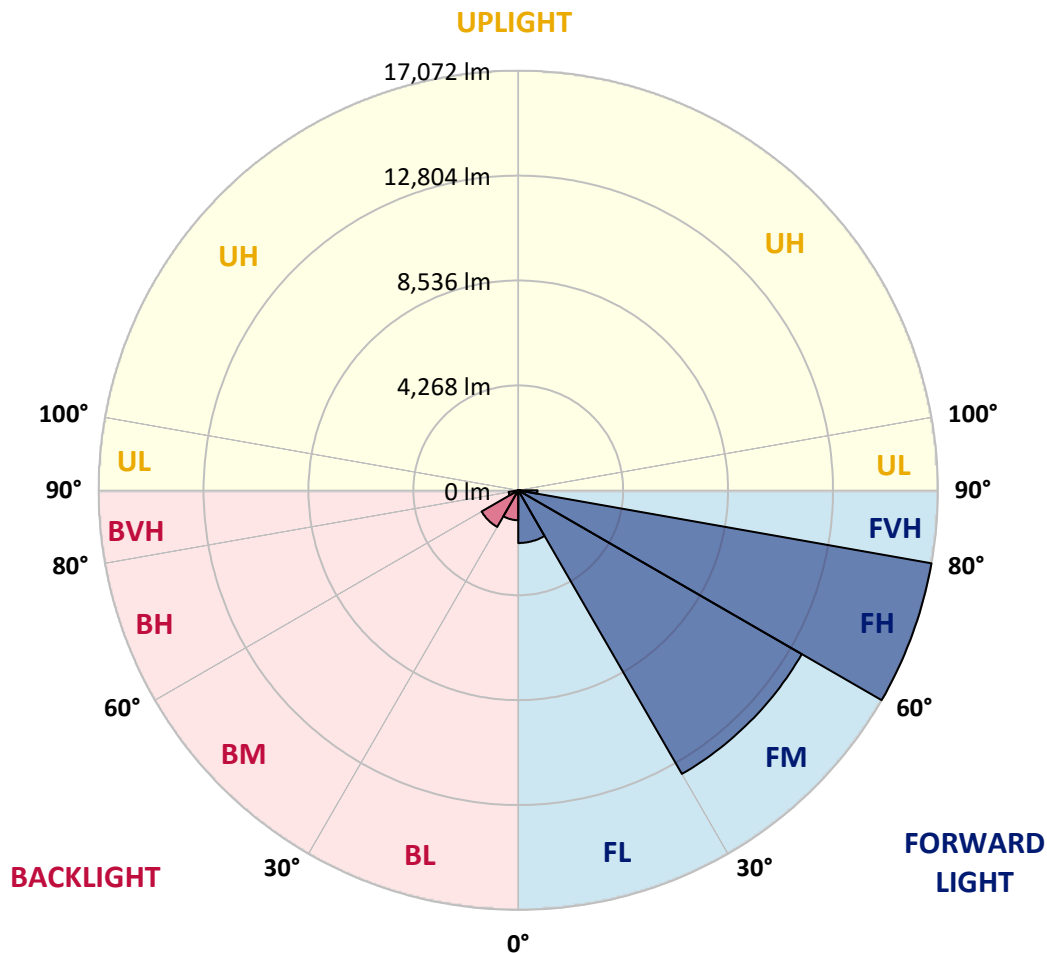
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.7	5.9			
FM (30°-60°)	13321.3	36.3			
FH (60°-80°)	17071.7	46.6			G5
FVH (80°-90°)	781.5	2.1			G5
BL (0°-30°)	1215.2	3.3	B3/2500		
BM (30°-60°)	1720.1	4.7	B2/2500		
BH (60°-80°)	399.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6
2.5°	5977.5	6002.6	6029.5	6034.9	6079.8	6081.6	6146.1	6194.6	6243.0	6289.7	6305.8
5°	5364.0	5405.2	5453.7	5502.1	5597.2	5634.9	5792.7	5954.2	6108.5	6255.6	6327.3
7.5°	4709.2	4755.8	4824.0	4944.2	5050.0	5123.6	5372.9	5660.0	5947.0	6217.9	6374.0
10°	4111.8	4154.8	4226.6	4354.0	4517.2	4617.7	4953.2	5351.4	5773.0	6183.8	6443.9
12.5°	3731.5	3754.8	3794.2	3930.6	4077.7	4190.7	4585.4	5078.7	5629.5	6182.0	6557.0
15°	3661.5	3668.7	3636.4	3697.4	3812.2	3921.6	4321.7	4858.1	5520.0	6210.7	6704.1
17.5°	3772.7	3769.1	3661.5	3654.3	3745.8	3835.5	4192.5	4705.6	5442.9	6277.1	6894.2
20°	3941.4	3928.8	3742.2	3708.1	3805.0	3889.3	4183.5	4648.2	5414.2	6388.3	7125.7
22.5°	4165.6	4144.1	3851.7	3815.8	3919.8	4007.7	4294.8	4703.8	5439.3	6537.2	7394.7
25°	4443.7	4411.4	4040.0	4000.6	4106.4	4194.3	4493.9	4863.5	5514.7	6718.4	7735.6
27.5°	4757.6	4711.0	4341.4	4239.2	4359.3	4450.8	4759.4	5107.4	5633.1	6910.4	8153.6
30°	5053.6	4992.6	4658.9	4490.3	4637.4	4739.7	5046.4	5398.1	5823.2	7206.4	8725.9
32.5°	5351.4	5283.2	4942.4	4741.5	4874.2	4985.4	5342.4	5798.1	6180.2	7658.5	9486.5
35°	6036.7	5965.0	5547.0	5215.1	5213.3	5276.1	5756.9	6345.3	6652.0	8288.1	10394.3
37.5°	7190.2	7149.0	6750.7	6121.0	5952.4	5882.4	6322.0	6998.3	7330.2	9154.6	11418.6
40°	8453.2	8417.3	7970.6	7400.1	7143.6	6971.4	7132.8	7907.8	8288.1	10213.1	12464.5
42.5°	9879.4	9709.0	8912.4	8742.0	8512.4	8381.4	8236.1	9029.1	9465.0	11364.8	13501.4
45°	11174.6	10887.6	9854.3	9595.9	9543.9	9576.2	9656.9	10536.0	10788.9	12733.6	14534.7
47.5°	11946.0	11720.0	10927.1	10679.5	10665.2	10878.6	11488.6	12238.5	12107.5	13926.6	15444.3
50°	12679.8	12475.3	11816.9	11877.9	11944.3	12234.9	13567.8	13989.4	13311.3	15008.4	16278.5
52.5°	13273.6	12961.4	12617.0	12959.6	13286.1	13754.4	15713.4	15560.9	14165.2	15869.5	16992.5
55°	13616.2	13474.5	13641.4	13985.8	14599.3	15360.0	17738.8	16868.7	14789.5	16655.2	17467.9
57.5°	14872.0	14593.9	14925.8	15223.6	16023.7	17087.6	19473.5	17842.8	15239.8	17141.4	17577.3
60°	16391.5	16167.3	16362.8	16857.9	17937.9	19188.3	21095.3	18637.6	15474.8	17453.5	17293.9
62.5°	18809.8	18513.8	18391.8	18946.1	20377.7	21742.9	22326.0	19188.3	15422.8	17315.4	16321.5
65°	22049.7	21742.9	21197.6	21699.9	23520.7	24484.1	23701.9	19304.9	15064.0	16197.8	13863.8
67.5°	25368.5	25146.1	24679.7	25526.4	27169.7	27480.0	25156.8	19021.5	13908.7	13133.7	9795.1
70°	27560.8	27465.7	27768.9	29641.8	31107.4	31017.7	26491.6	17498.4	10841.0	8076.5	4845.5
72.5°	25980.3	26435.9	28674.8	32070.8	33861.2	33129.3	25806.3	13436.8	6196.4	3107.2	1401.1
73°	24670.7	25253.7	28267.6	32162.3	34078.3	33276.4	25230.4	12333.5	5281.4	2452.4	1062.0
75°	17162.9	17878.7	23402.3	29953.9	33062.9	31704.8	21030.7	7549.0	2447.0	1087.1	428.8
77.5°	8333.0	8862.2	12886.1	21642.5	25713.0	24771.1	13092.4	2812.9	1105.1	679.9	197.3
80°	3110.7	3458.8	5593.6	11015.0	14859.5	15248.7	5758.6	1063.8	735.5	547.2	100.5
82.5°	814.5	907.7	2063.1	4911.9	7615.4	7970.6	1815.5	536.4	538.2	450.3	61.0
85°	260.1	297.8	644.0	2204.8	3587.9	3150.2	473.6	260.1	391.1	335.5	34.1
87.5°	32.3	41.3	204.5	518.5	791.1	439.5	73.6	77.1	166.8	186.6	19.7
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°	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6	6307.6
2.5°	6322.0	6313.0	6314.8	6268.1	6237.6	6176.6	6113.9	6085.1	6054.7	6042.1	6054.7
5°	6354.2	6338.1	6291.5	6147.9	5995.4	5798.1	5613.3	5473.4	5297.6	5249.2	5299.4
7.5°	6404.5	6372.2	6235.8	5943.4	5604.4	5227.6	4804.3	4495.7	4242.7	4079.5	4138.7
10°	6478.0	6417.0	6142.6	5645.6	5039.3	4371.9	3770.9	3302.7	2970.8	2834.5	2829.1
12.5°	6601.8	6487.0	6027.7	5258.1	4348.6	3458.8	2671.2	2163.5	1894.4	1720.4	1716.8
15°	6738.2	6569.5	5882.4	4793.5	3544.9	2477.5	1720.4	1334.7	1160.7	1105.1	1097.9
17.5°	6905.0	6664.6	5694.1	4221.2	2703.5	1641.5	1123.0	1011.8	1004.6	999.2	999.2
20°	7114.9	6777.6	5451.9	3566.4	1917.8	1096.1	954.4	961.6	965.2	958.0	959.8
22.5°	7358.9	6892.4	5163.0	2863.2	1297.0	916.7	913.1	922.1	925.7	922.1	923.9
25°	7642.3	7025.2	4811.4	2125.9	936.5	870.1	879.0	891.6	900.6	900.6	900.6
27.5°	7993.9	7186.6	4388.1	1483.6	809.1	821.6	846.8	870.1	882.6	886.2	886.2
30°	8451.4	7387.6	3880.4	1017.2	735.5	757.1	803.7	848.5	871.9	875.5	877.3
32.5°	9029.1	7613.6	3291.9	751.7	672.7	688.9	739.1	814.5	859.3	866.5	866.5
35°	9691.0	7875.5	2658.7	654.8	627.9	633.3	672.7	758.8	837.8	857.5	859.3
37.5°	10415.8	8133.9	2021.8	611.7	590.2	590.2	618.9	692.5	785.8	846.8	853.9
40°	11092.1	8289.9	1417.2	577.7	556.1	556.1	581.2	635.1	723.0	814.5	834.2
42.5°	11716.4	8343.8	986.7	545.4	523.8	529.2	550.7	593.8	660.2	751.7	769.6
45°	12358.7	8334.8	719.4	507.7	491.5	507.7	523.8	556.1	604.6	656.6	660.2
47.5°	12843.0	8259.4	570.5	471.8	461.1	482.6	496.9	518.5	545.4	541.8	541.8
50°	13296.9	8076.5	459.3	423.4	430.6	455.7	462.8	470.0	471.8	437.7	434.1
52.5°	13641.4	7791.2	367.8	371.4	400.1	425.2	418.0	407.2	389.3	348.0	340.9
55°	13756.2	7242.3	288.8	306.8	355.2	387.5	360.6	337.3	303.2	269.1	261.9
57.5°	13548.1	6533.6	235.0	238.6	299.6	326.5	296.0	269.1	231.4	202.7	197.3
60°	13106.7	5746.1	193.7	179.4	231.4	254.7	235.0	208.1	174.0	152.5	150.7
62.5°	12231.3	4906.5	159.7	139.9	175.8	195.5	183.0	163.3	134.5	120.2	118.4
65°	10390.7	3925.2	129.2	113.0	136.3	152.5	141.7	127.4	105.8	95.1	93.3
67.5°	7253.0	2653.3	105.8	93.3	107.6	120.2	111.2	104.1	84.3	82.5	84.3
70°	3498.2	1279.1	87.9	75.3	84.3	93.3	89.7	84.3	80.7	93.3	107.6
72.5°	1002.8	428.8	70.0	62.8	68.2	73.6	77.1	75.3	87.9	113.0	131.0
73°	771.4	346.2	66.4	59.2	64.6	71.8	75.3	73.6	89.7	114.8	131.0
75°	330.1	166.8	50.2	48.4	53.8	62.8	66.4	66.4	89.7	116.6	125.6
77.5°	148.9	89.7	32.3	37.7	46.6	50.2	55.6	55.6	71.8	89.7	89.7
80°	84.3	48.4	25.1	28.7	34.1	34.1	34.1	30.5	32.3	35.9	39.5
82.5°	53.8	32.3	19.7	23.3	21.5	17.9	14.4	14.4	12.6	14.4	17.9
85°	30.5	17.9	17.9	14.4	9.0	7.2	9.0	7.2	1.8	0.0	1.8
87.5°	17.9	10.8	5.4	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)