

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: P322541

Luminaire Tested: **GAN-SA7D-730-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322541
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-SA7D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 35493 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

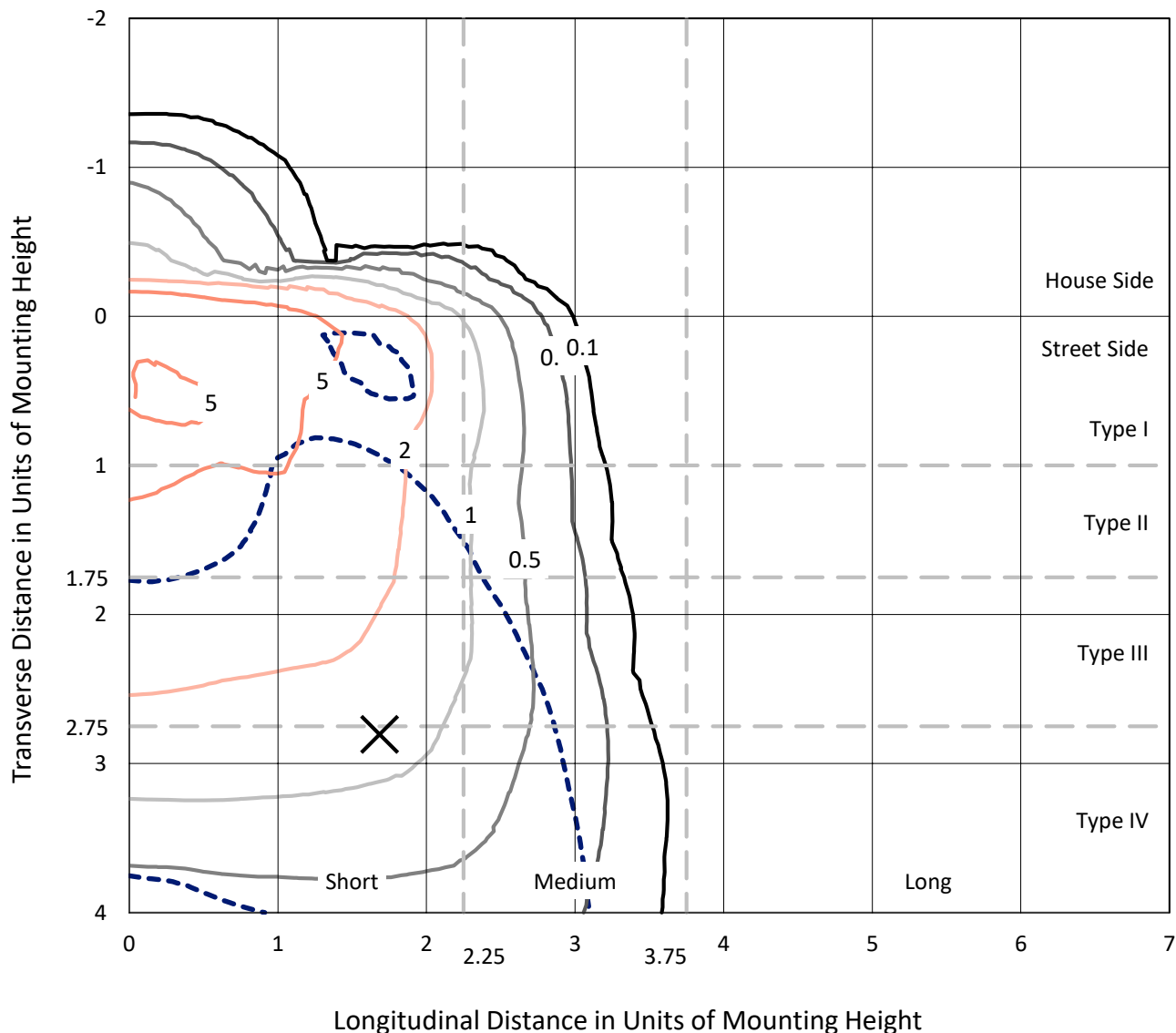
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

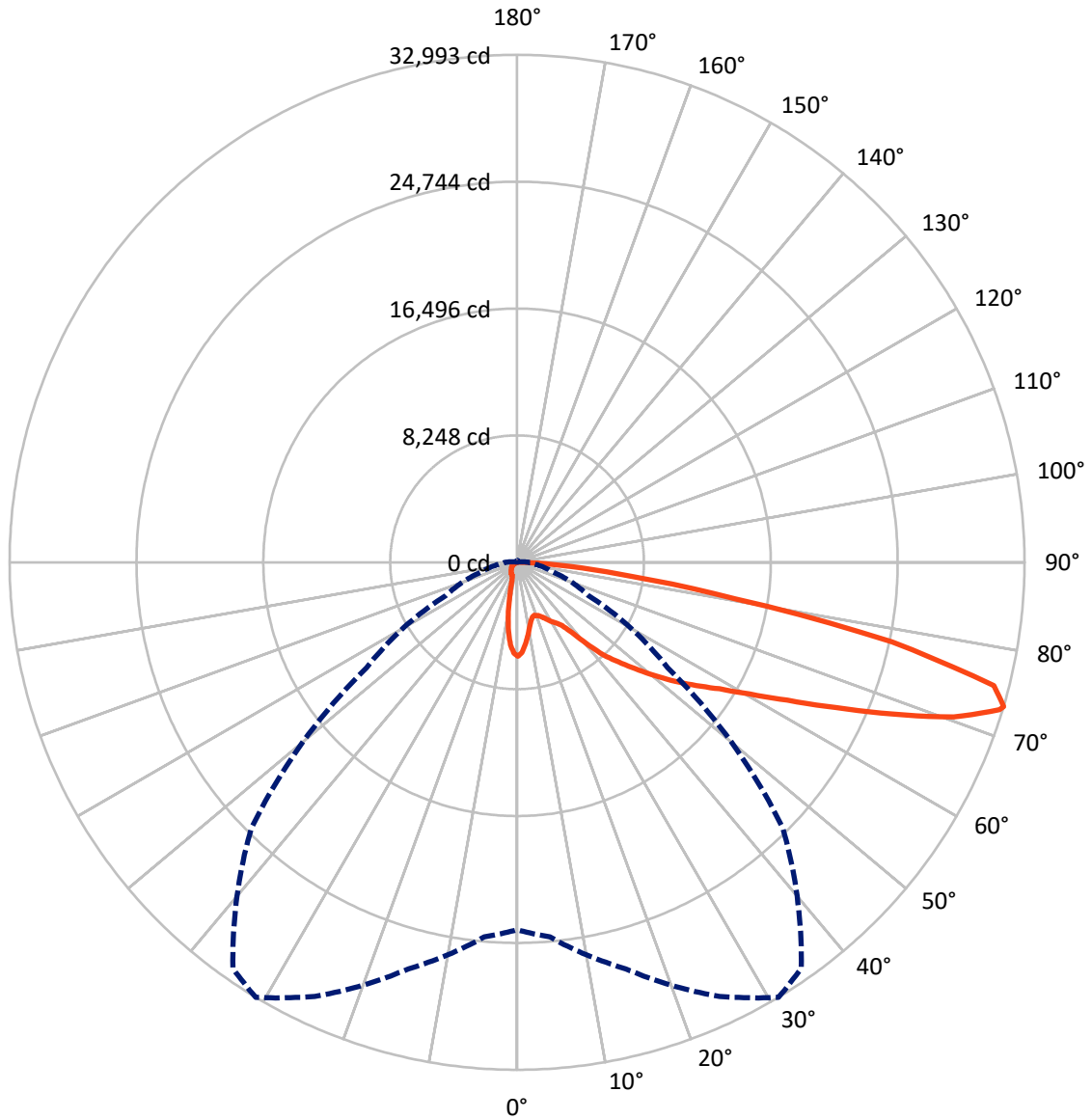
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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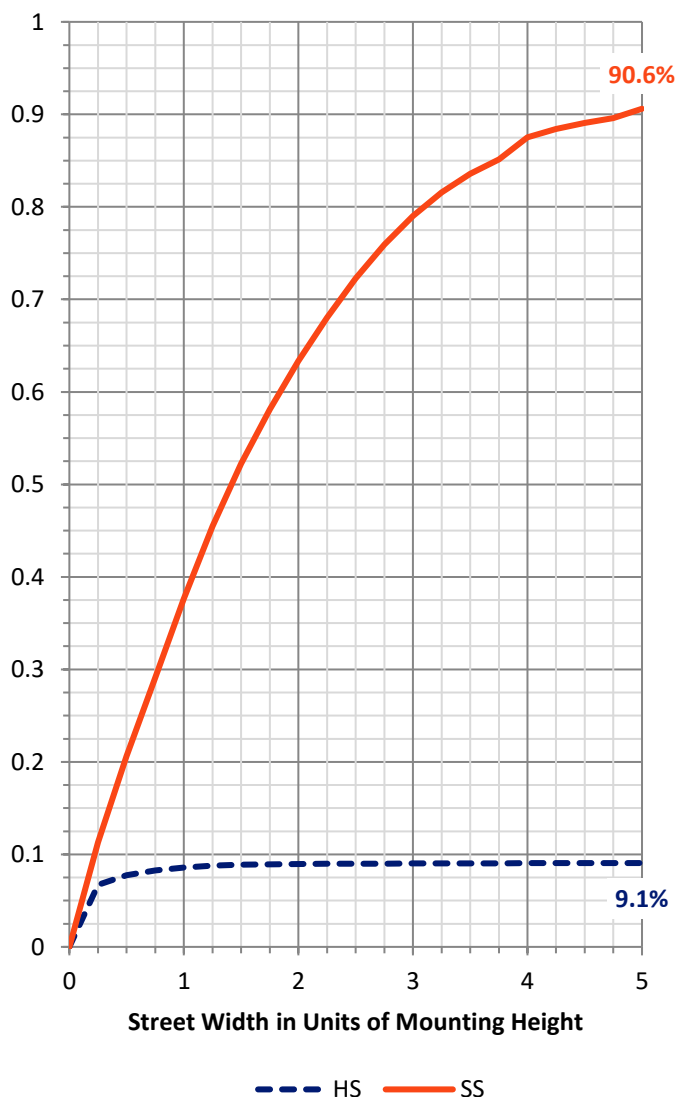
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3235.3	0.0	3235.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32257.7	0.0	32257.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	35493.0	0.0	35493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.3	1.4
10°-20°	1099.4	3.1
20°-30°	1647.2	4.6
30°-40°	2620.7	7.4
40°-50°	4679.8	13.2
50°-60°	7261.7	20.5
60°-70°	9653.5	27.2
70°-80°	7261.4	20.5
80°-90°	763.0	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°	35493.0	100.0
0°-180°	35493.0	100.0

Coefficient of Utilization



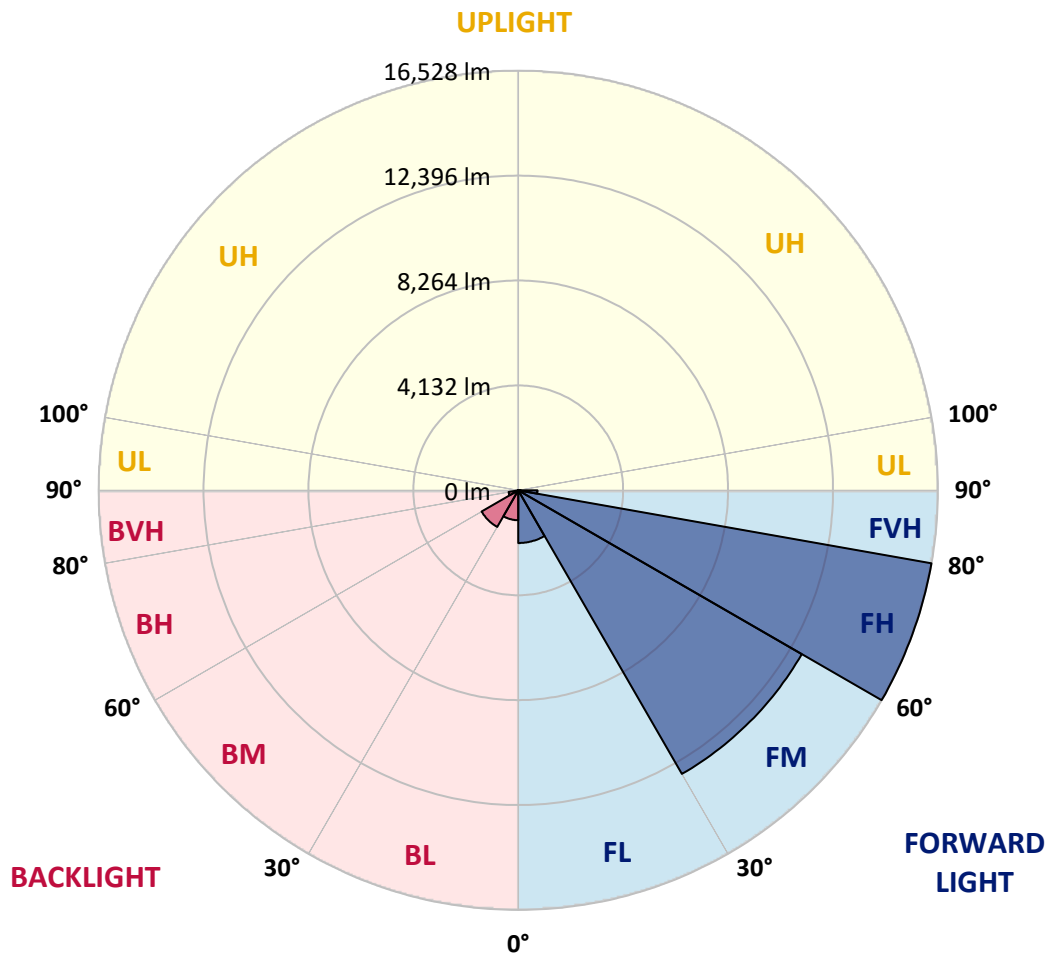
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.4	5.9			
FM (30°-60°)	12896.9	36.3			
FH (60°-80°)	16527.8	46.6			G5
FVH (80°-90°)	756.6	2.1			G5
BL (0°-30°)	1176.5	3.3	B3/2500		
BM (30°-60°)	1665.3	4.7	B2/2500		
BH (60°-80°)	387.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.4	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°	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6
2.5°	5787.1	5811.4	5837.4	5842.6	5886.1	5887.8	5950.3	5997.2	6044.1	6089.3	6104.9
5°	5193.1	5233.0	5279.9	5326.8	5418.9	5455.3	5608.2	5764.5	5913.9	6056.3	6125.7
7.5°	4559.1	4604.3	4670.3	4786.7	4889.1	4960.3	5201.8	5479.7	5757.5	6019.8	6170.9
10°	3980.8	4022.5	4091.9	4215.3	4373.3	4470.6	4795.3	5180.9	5589.1	5986.8	6238.6
12.5°	3612.6	3635.2	3673.4	3805.4	3947.8	4057.2	4439.3	4916.9	5450.1	5985.1	6348.1
15°	3544.8	3551.8	3520.5	3579.6	3690.7	3796.7	4184.0	4703.3	5344.2	6012.9	6490.5
17.5°	3652.5	3649.0	3544.8	3537.9	3626.5	3713.3	4058.9	4555.7	5269.5	6077.1	6674.6
20°	3815.8	3803.6	3623.0	3590.0	3683.8	3765.4	4050.3	4500.1	5241.7	6184.8	6898.6
22.5°	4032.9	4012.0	3728.9	3694.2	3794.9	3880.0	4157.9	4553.9	5266.0	6329.0	7159.2
25°	4302.1	4270.8	3911.3	3873.1	3975.6	4060.7	4350.7	4708.5	5339.0	6504.4	7489.1
27.5°	4606.0	4560.9	4203.1	4104.1	4220.5	4309.0	4607.8	4944.7	5453.6	6690.2	7893.8
30°	4892.6	4833.6	4510.5	4347.2	4489.7	4588.7	4885.7	5226.1	5637.7	6976.8	8447.9
32.5°	5180.9	5114.9	4784.9	4590.4	4718.9	4826.6	5172.2	5613.4	5983.3	7414.5	9184.3
35°	5844.4	5774.9	5370.2	5048.9	5047.2	5108.0	5573.4	6143.1	6440.1	8024.1	10063.1
37.5°	6961.2	6921.2	6535.6	5926.0	5762.8	5695.0	6120.5	6775.3	7096.6	8863.0	11054.8
40°	8183.9	8149.1	7716.7	7164.4	6916.0	6749.3	6905.6	7655.9	8024.1	9887.7	12067.4
42.5°	9564.6	9399.6	8628.5	8463.5	8241.2	8114.4	7973.7	8741.4	9163.4	11002.7	13071.3
45°	10818.6	10540.7	9540.3	9290.2	9239.9	9271.1	9349.3	10200.3	10445.2	12327.9	14071.7
47.5°	11565.5	11346.6	10578.9	10339.3	10325.4	10532.0	11122.6	11848.6	11721.8	13482.9	14952.2
50°	12275.8	12077.8	11440.4	11499.5	11563.7	11845.1	13135.5	13543.7	12887.2	14530.2	15759.9
52.5°	12850.7	12548.5	12215.0	12546.8	12862.9	13316.2	15212.8	15065.1	13713.9	15363.9	16451.1
55°	13182.4	13045.2	13206.7	13540.2	14134.2	14870.6	17173.6	16331.3	14318.3	16124.6	16911.4
57.5°	14398.2	14129.0	14450.3	14738.6	15513.2	16543.2	18853.1	17274.4	14754.2	16595.3	17017.3
60°	15869.3	15652.2	15841.5	16320.9	17366.4	18577.0	20423.2	18043.8	14981.8	16897.5	16742.9
62.5°	18210.5	17923.9	17805.8	18342.5	19728.5	21050.2	21614.7	18577.0	14931.4	16763.7	15801.5
65°	21347.2	21050.2	20522.2	21008.5	22771.4	23704.1	22946.8	18689.9	14584.0	15681.7	13422.1
67.5°	24560.3	24344.9	23893.4	24713.1	26304.1	26604.5	24355.4	18415.5	13465.5	12715.2	9483.0
70°	26682.7	26590.6	26884.2	28697.4	30116.4	30029.5	25647.6	16940.9	10495.6	7819.1	4691.1
72.5°	25152.6	25593.7	27761.3	31049.1	32782.4	32073.8	24984.1	13008.7	5999.0	3008.2	1356.5
73°	23884.7	24449.2	27367.0	31137.6	32992.5	32216.2	24426.6	11940.6	5113.2	2374.2	1028.2
75°	16616.1	17309.1	22656.8	28999.6	32009.5	30694.7	20360.7	7308.5	2369.0	1052.5	415.1
77.5°	8067.5	8579.9	12475.5	20952.9	24893.8	23981.9	12675.3	2723.3	1069.9	658.3	191.0
80°	3011.6	3348.6	5415.4	10664.0	14386.0	14762.9	5575.2	1029.9	712.1	529.7	97.3
82.5°	788.5	878.8	1997.3	4755.4	7372.8	7716.7	1757.7	519.3	521.0	435.9	59.1
85°	251.8	288.3	623.5	2134.5	3473.6	3049.8	458.5	251.8	378.6	324.8	33.0
87.5°	31.3	39.9	198.0	501.9	765.9	425.5	71.2	74.7	161.5	180.6	19.1
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°	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6	6106.6
2.5°	6120.5	6111.9	6113.6	6068.4	6038.9	5979.9	5919.1	5891.3	5861.8	5849.6	5861.8
5°	6151.8	6136.2	6091.0	5952.1	5804.4	5613.4	5434.5	5299.0	5128.8	5081.9	5130.6
7.5°	6200.4	6169.2	6037.2	5754.1	5425.8	5061.1	4651.2	4352.5	4107.6	3949.5	4006.8
10°	6271.6	6212.6	5946.9	5465.8	4878.7	4232.6	3650.8	3197.5	2876.2	2744.2	2739.0
12.5°	6391.5	6280.3	5835.7	5090.6	4210.0	3348.6	2586.1	2094.6	1834.1	1665.6	1662.1
15°	6523.5	6360.2	5695.0	4640.8	3431.9	2398.5	1665.6	1292.2	1123.7	1069.9	1062.9
17.5°	6685.0	6452.3	5512.7	4086.7	2617.4	1589.2	1087.2	979.6	972.6	967.4	967.4
20°	6888.2	6561.7	5278.2	3452.8	1856.7	1061.2	924.0	930.9	934.4	927.5	929.2
22.5°	7124.4	6672.8	4998.6	2772.0	1255.7	887.5	884.0	892.7	896.2	892.7	894.5
25°	7398.8	6801.4	4658.1	2058.1	906.6	842.4	851.0	863.2	871.9	871.9	871.9
27.5°	7739.2	6957.7	4248.3	1436.3	783.3	795.5	819.8	842.4	854.5	858.0	858.0
30°	8182.1	7152.2	3756.7	984.8	712.1	732.9	778.1	821.5	844.1	847.6	849.3
32.5°	8741.4	7371.0	3187.1	727.7	651.3	666.9	715.6	788.5	831.9	838.9	838.9
35°	9382.3	7624.6	2574.0	633.9	607.9	613.1	651.3	734.7	811.1	830.2	831.9
37.5°	10084.0	7874.7	1957.4	592.3	571.4	571.4	599.2	670.4	760.7	819.8	826.7
40°	10738.7	8025.8	1372.1	559.3	538.4	538.4	562.7	614.8	699.9	788.5	807.6
42.5°	11343.1	8077.9	955.2	528.0	507.2	512.4	533.2	574.9	639.1	727.7	745.1
45°	11964.9	8069.2	696.5	491.5	475.9	491.5	507.2	538.4	585.3	635.7	639.1
47.5°	12433.9	7996.3	552.3	456.8	446.4	467.2	481.1	501.9	528.0	524.5	524.5
50°	12873.3	7819.1	444.6	409.9	416.8	441.2	448.1	455.0	456.8	423.8	420.3
52.5°	13206.7	7543.0	356.0	359.5	387.3	411.6	404.7	394.3	376.9	336.9	330.0
55°	13317.9	7011.5	279.6	297.0	343.9	375.2	349.1	326.5	293.5	260.5	253.6
57.5°	13116.4	6325.5	227.5	231.0	290.0	316.1	286.6	260.5	224.0	196.3	191.0
60°	12689.2	5563.0	187.6	173.7	224.0	246.6	227.5	201.5	168.5	147.6	145.9
62.5°	11841.6	4750.2	154.6	135.5	170.2	189.3	177.2	158.1	130.3	116.4	114.6
65°	10059.6	3800.2	125.1	109.4	132.0	147.6	137.2	123.3	102.5	92.1	90.3
67.5°	7021.9	2568.8	102.5	90.3	104.2	116.4	107.7	100.7	81.6	79.9	81.6
70°	3386.8	1238.3	85.1	72.9	81.6	90.3	86.8	81.6	78.2	90.3	104.2
72.5°	970.9	415.1	67.7	60.8	66.0	71.2	74.7	72.9	85.1	109.4	126.8
73°	746.8	335.2	64.3	57.3	62.5	69.5	72.9	71.2	86.8	111.2	126.8
75°	319.6	161.5	48.6	46.9	52.1	60.8	64.3	64.3	86.8	112.9	121.6
77.5°	144.2	86.8	31.3	36.5	45.2	48.6	53.8	53.8	69.5	86.8	86.8
80°	81.6	46.9	24.3	27.8	33.0	33.0	33.0	29.5	31.3	34.7	38.2
82.5°	52.1	31.3	19.1	22.6	20.8	17.4	13.9	13.9	12.2	13.9	17.4
85°	29.5	17.4	17.4	13.9	8.7	6.9	8.7	6.9	1.7	0.0	1.7
87.5°	17.4	10.4	5.2	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)