

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: P322852

Luminaire Tested: **GAN-SA8C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37417 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

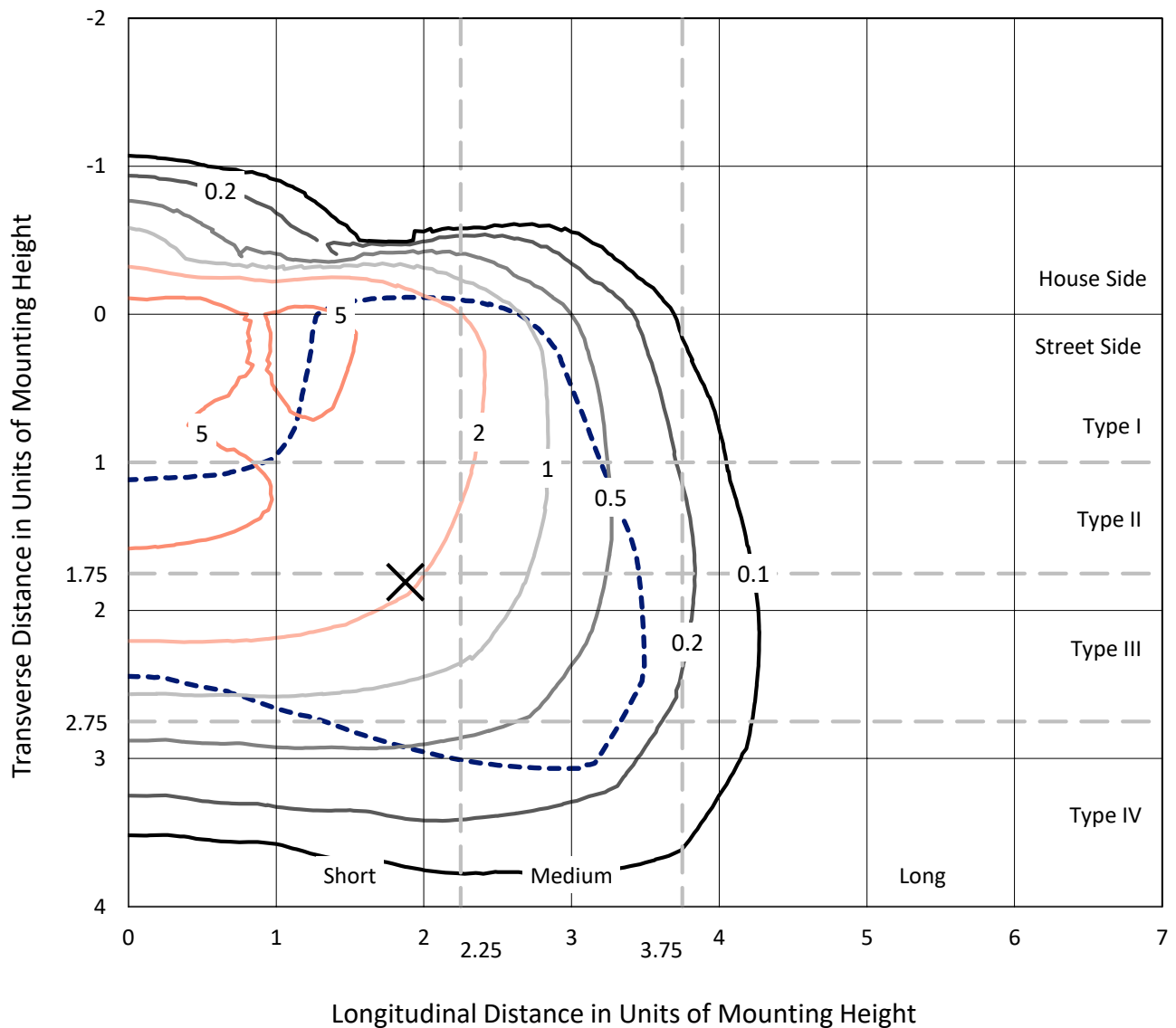
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

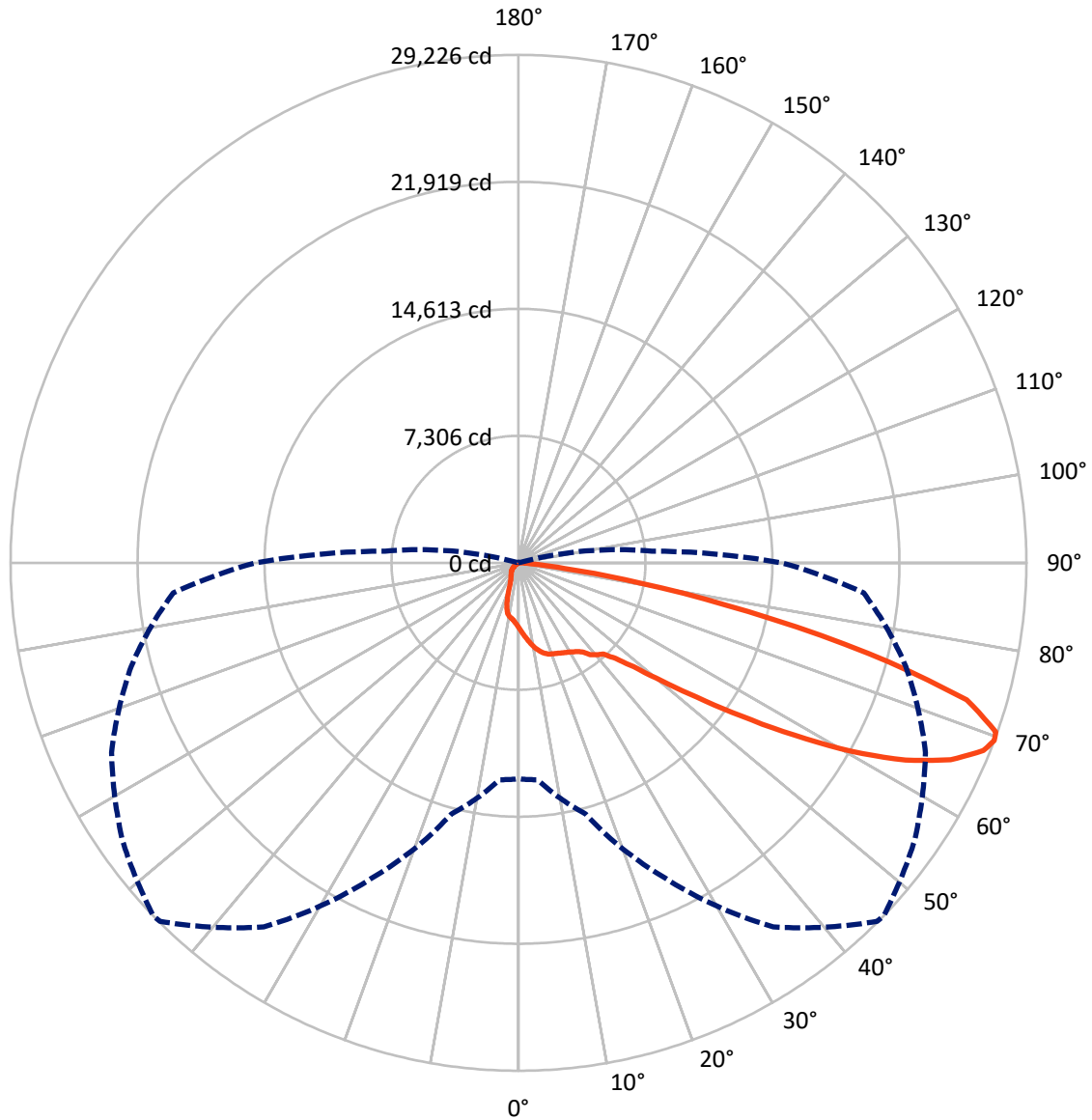
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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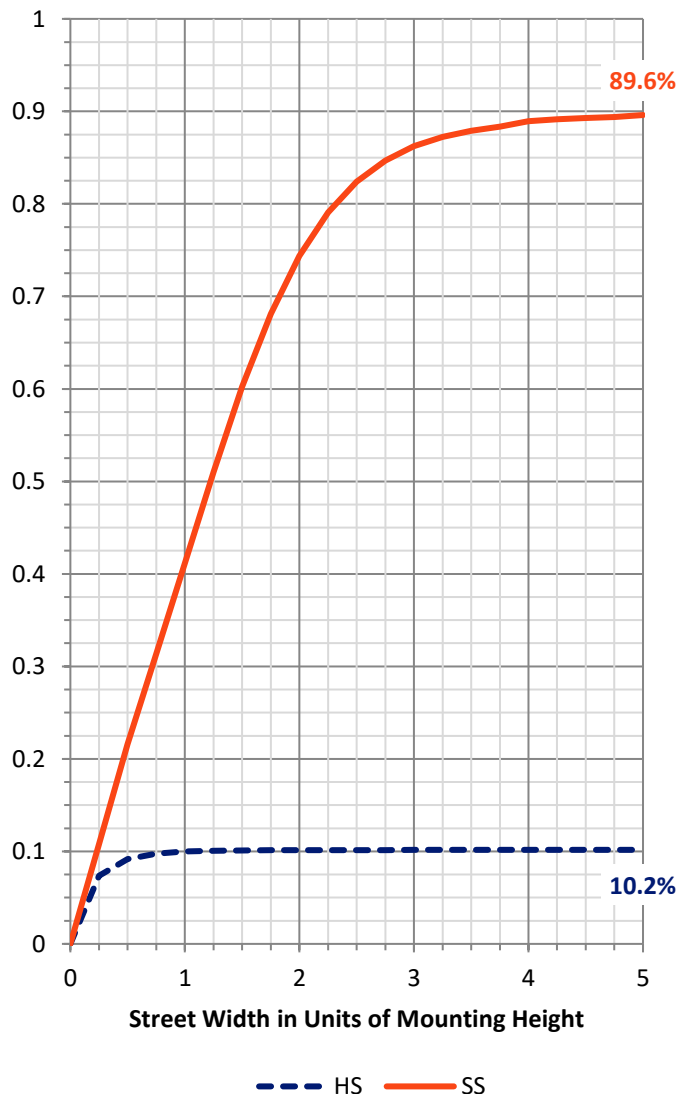
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3840.0	0.0	3840.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	33577.0	0.0	33577.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	37417.0	0.0	37417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	1.0
10°-20°	1132.1	3.0
20°-30°	1780.4	4.8
30°-40°	2553.1	6.8
40°-50°	4412.7	11.8
50°-60°	8717.6	23.3
60°-70°	12183.7	32.6
70°-80°	5886.0	15.7
80°-90°	378.3	1.0
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°	37417.0	100.0
0°-180°	37417.0	100.0

Coefficient of Utilization



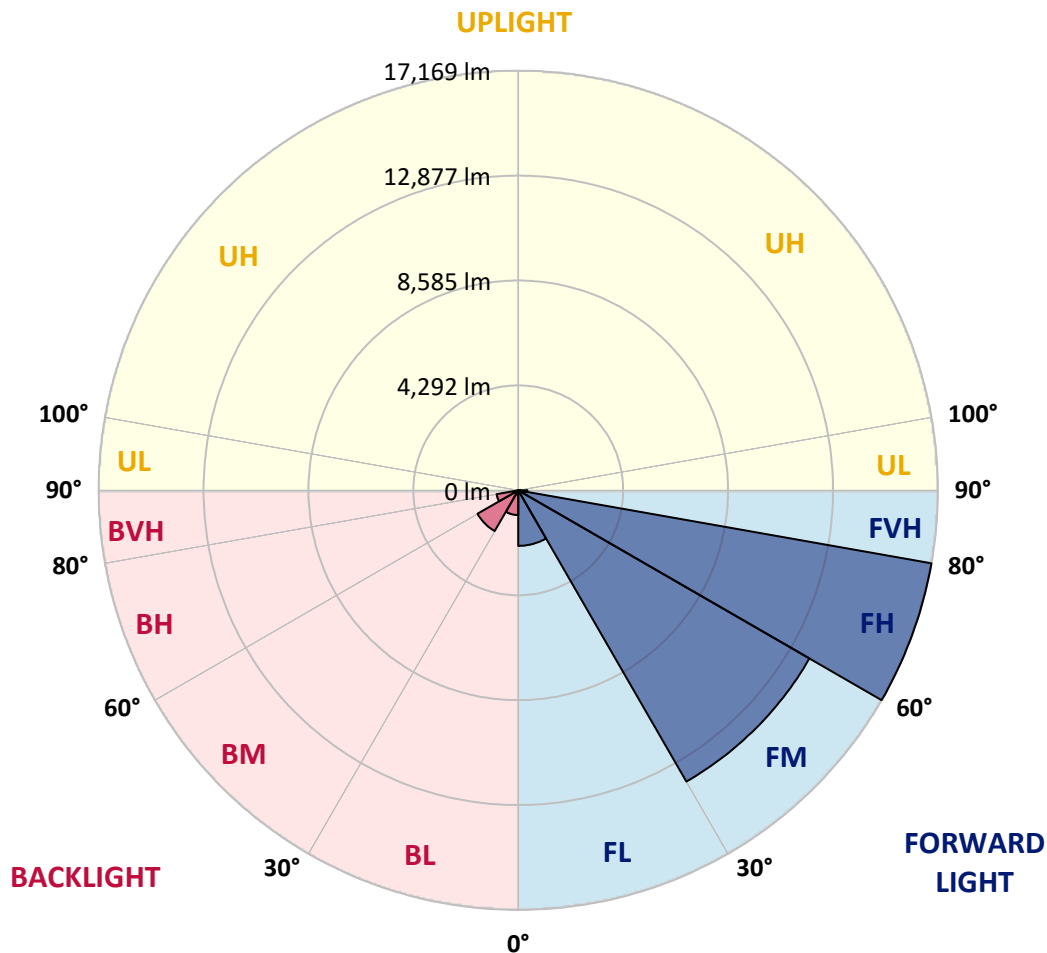
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.5	6.1			
FM (30°-60°)	13759.1	36.8			
FH (60°-80°)	17169.3	45.9			G5
FVH (80°-90°)	375.1	1.0			G3/500
BL (0°-30°)	1012.1	2.7	B3/2500		
BM (30°-60°)	1924.3	5.1	B2/2500		
BH (60°-80°)	900.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.2	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°	35°	45°	46°	55°	65°	75°	85°
0°	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0
2.5°	4164.8	4159.6	4135.0	4124.5	4064.8	4029.7	4015.7	3971.8	3908.7	3845.5	3775.4
5°	4638.5	4636.7	4591.1	4547.3	4435.0	4329.7	4310.4	4208.7	4066.6	3933.3	3799.9
7.5°	5122.7	5099.9	5054.3	4970.1	4806.9	4638.5	4622.7	4478.9	4277.1	4084.1	3892.9
10°	5533.2	5519.2	5459.5	5331.5	5140.2	4949.0	4929.7	4752.5	4524.5	4287.6	4043.8
12.5°	5852.5	5842.0	5763.0	5603.4	5399.9	5201.6	5175.3	5017.4	4773.6	4508.7	4221.0
15°	6047.2	6042.0	5945.5	5775.3	5575.3	5403.4	5380.6	5242.0	5015.7	4738.5	4413.9
17.5°	6092.9	6094.6	5994.6	5822.7	5657.8	5535.0	5517.4	5412.2	5222.7	4947.3	4606.9
20°	5991.1	6012.2	5922.7	5773.6	5671.8	5606.9	5592.9	5529.7	5370.1	5110.4	4761.3
22.5°	5847.2	5857.8	5796.4	5696.4	5654.3	5666.5	5659.5	5624.4	5489.4	5250.8	4913.9
25°	5759.5	5759.5	5722.7	5638.5	5666.5	5742.0	5743.7	5736.7	5629.7	5422.7	5099.9
27.5°	5756.0	5745.5	5703.4	5640.2	5717.4	5833.2	5840.2	5887.6	5820.9	5631.5	5331.5
30°	5896.4	5884.1	5794.6	5712.2	5810.4	5935.0	5952.5	6056.0	6022.7	5857.8	5589.4
32.5°	6224.4	6180.6	5982.3	5847.2	5920.9	6070.0	6092.9	6257.8	6310.4	6136.7	5838.5
35°	6673.5	6534.9	6249.0	6103.4	6110.4	6266.5	6287.6	6529.7	6685.8	6392.8	6031.5
37.5°	7292.8	7224.4	6759.5	6370.0	6401.6	6638.5	6699.9	6963.0	6919.2	6533.2	6250.7
40°	8650.7	8543.7	8049.0	7117.4	6680.6	6940.2	6959.5	7099.8	7103.4	6850.7	6706.9
42.5°	10499.8	10455.9	9934.9	8473.5	7229.7	7142.0	7177.0	7413.9	7678.8	7520.9	7513.9
45°	12547.1	12524.3	11971.7	10273.5	8340.2	7803.3	7847.2	8164.7	8671.7	8706.8	8929.6
47.5°	14194.4	14183.9	13866.4	12282.2	10040.1	8924.4	8938.4	9275.2	10166.5	10606.8	10962.9
50°	15696.2	15747.0	15496.2	14455.8	12355.9	10680.5	10647.1	10871.7	12303.2	13024.3	13466.4
52.5°	17783.8	17855.8	17152.3	16483.9	14785.7	12859.4	12833.1	13068.1	14871.6	15412.0	15490.9
55°	19627.7	19504.9	18948.7	18755.7	17748.7	15550.5	15543.5	15750.5	17355.8	17585.6	17731.2
57.5°	20441.7	20394.3	20662.7	21104.8	20852.2	18731.2	18715.4	18557.5	19578.5	19603.1	20050.5
60°	20955.7	21013.6	21836.4	23199.5	23829.3	22153.9	22052.2	21089.0	21701.3	21646.9	22125.8
62.5°	20569.7	20683.8	22164.4	24436.3	26057.3	25141.6	24997.7	23408.3	23515.3	23327.6	23773.2
65°	18520.7	18697.9	21124.1	24203.0	27162.6	27476.6	27331.0	25455.6	24955.6	24646.8	24399.5
67.5°	15038.3	15143.5	17676.8	22173.2	26664.3	28869.6	28839.7	27250.3	26043.3	24424.0	22504.8
69°	12427.8	12531.3	14969.9	20036.4	25567.9	29167.8	29225.7	27825.7	25836.3	23069.7	19939.9
70°	10526.1	10636.6	12908.5	18204.9	24296.0	29029.2	29132.7	27771.3	25243.3	21501.3	17689.1
72.5°	5520.9	5615.7	7947.2	12541.8	19806.6	26655.6	26969.6	25424.0	21397.8	15615.5	10459.4
75°	1735.1	1789.4	3103.4	6556.0	13561.1	20725.9	20797.8	19943.4	15194.4	8589.3	4356.0
77.5°	661.4	645.6	1033.3	2415.7	6856.0	13050.6	13490.9	12462.9	7973.5	3036.8	1005.2
80°	356.1	357.9	536.8	1000.0	2933.3	6706.9	7078.8	6040.2	2833.3	947.3	231.6
82.5°	154.4	161.4	301.7	529.8	1347.3	2473.6	2659.6	2214.0	1082.4	636.8	86.0
85°	33.3	36.8	145.6	287.7	549.1	694.7	728.1	717.5	689.5	494.7	33.3
87.5°	0.0	0.0	64.9	103.5	138.6	157.9	138.6	180.7	380.7	333.3	17.5
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°	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0	3749.0
2.5°	3752.6	3721.0	3666.6	3606.9	3564.8	3521.0	3485.9	3470.1	3452.6	3440.3	3456.1
5°	3745.5	3684.1	3578.9	3477.1	3403.4	3343.8	3294.7	3275.4	3256.1	3242.0	3240.3
7.5°	3806.9	3721.0	3559.6	3410.5	3296.4	3215.7	3149.1	3121.0	3098.2	3087.7	3078.9
10°	3924.5	3814.0	3598.2	3403.4	3256.1	3119.2	2975.4	2864.9	2792.9	2759.6	2747.3
12.5°	4077.1	3938.5	3671.9	3440.3	3226.2	2963.1	2657.8	2394.7	2224.5	2168.4	2135.0
15°	4256.1	4084.1	3768.3	3487.6	3117.5	2636.8	2119.3	1775.4	1617.5	1585.9	1550.8
17.5°	4428.0	4238.5	3884.1	3496.4	2878.9	2107.0	1552.6	1319.3	1257.9	1278.9	1284.2
20°	4578.9	4391.1	3998.2	3419.2	2445.6	1580.7	1201.7	1143.8	1166.6	1207.0	1214.0
22.5°	4731.5	4538.5	4103.4	3215.7	1891.2	1200.0	1082.4	1096.5	1119.3	1159.6	1166.6
25°	4917.4	4717.4	4201.7	2842.0	1419.3	1021.0	1028.0	1049.1	1071.9	1108.7	1112.3
27.5°	5131.5	4943.8	4266.6	2356.1	1052.6	938.6	961.4	993.0	1015.8	1050.9	1057.9
30°	5415.7	5242.0	4287.6	1852.6	882.4	864.9	875.4	914.0	947.3	978.9	984.2
32.5°	5682.3	5536.7	4217.5	1398.2	817.5	796.5	796.5	819.3	857.9	887.7	894.7
35°	5927.9	5833.2	3992.9	1022.8	768.4	733.3	715.8	715.8	740.3	764.9	771.9
37.5°	6252.5	6249.0	3629.7	815.8	721.0	680.7	643.8	615.8	607.0	612.3	615.8
40°	6808.6	6813.9	3156.1	731.6	680.7	626.3	570.2	519.3	471.9	456.1	454.4
42.5°	7677.0	7598.1	2659.6	691.2	645.6	570.2	486.0	417.5	343.9	321.0	319.3
45°	9055.9	8587.5	2133.3	654.4	608.8	507.0	401.7	308.8	249.1	231.6	231.6
47.5°	11064.7	9887.5	1652.6	614.0	559.6	435.1	303.5	222.8	182.5	173.7	175.4
50°	13141.8	11161.2	1266.6	563.1	500.0	359.6	224.6	161.4	138.6	138.6	140.3
52.5°	14983.9	12094.5	987.7	508.8	426.3	282.5	170.2	126.3	115.8	114.0	115.8
55°	16708.4	12696.2	756.1	445.6	338.6	210.5	129.8	103.5	96.5	93.0	91.2
57.5°	18371.5	12994.5	566.7	359.6	245.6	152.6	103.5	87.7	80.7	75.4	73.7
60°	19478.5	12752.4	389.5	264.9	170.2	110.5	86.0	75.4	66.7	61.4	59.6
62.5°	20103.1	12091.0	250.9	191.2	121.1	82.5	68.4	63.2	50.9	45.6	45.6
65°	19850.5	10999.8	175.4	136.8	87.7	61.4	50.9	50.9	36.8	29.8	28.1
67.5°	17590.9	9292.8	133.3	101.8	63.2	45.6	38.6	43.9	22.8	14.0	14.0
69°	15134.8	7701.6	114.0	84.2	52.6	36.8	33.3	40.4	15.8	10.5	8.8
70°	13154.1	6643.7	103.5	73.7	43.9	31.6	29.8	38.6	15.8	8.8	7.0
72.5°	7870.0	3705.2	78.9	52.6	28.1	24.6	24.6	43.9	15.8	8.8	7.0
75°	3180.6	1305.2	57.9	36.8	21.1	21.1	29.8	56.1	14.0	7.0	5.3
77.5°	721.0	286.0	33.3	22.8	14.0	21.1	35.1	43.9	8.8	3.5	0.0
80°	175.4	70.2	21.1	14.0	8.8	15.8	26.3	24.6	1.8	0.0	0.0
82.5°	57.9	24.6	8.8	7.0	1.8	5.3	12.3	7.0	0.0	0.0	0.0
85°	24.6	14.0	3.5	1.8	0.0	0.0	1.8	0.0	0.0	0.0	0.0
87.5°	15.8	5.3	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)