

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: P321941

Luminaire Tested: **GAN-SA7D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39043 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

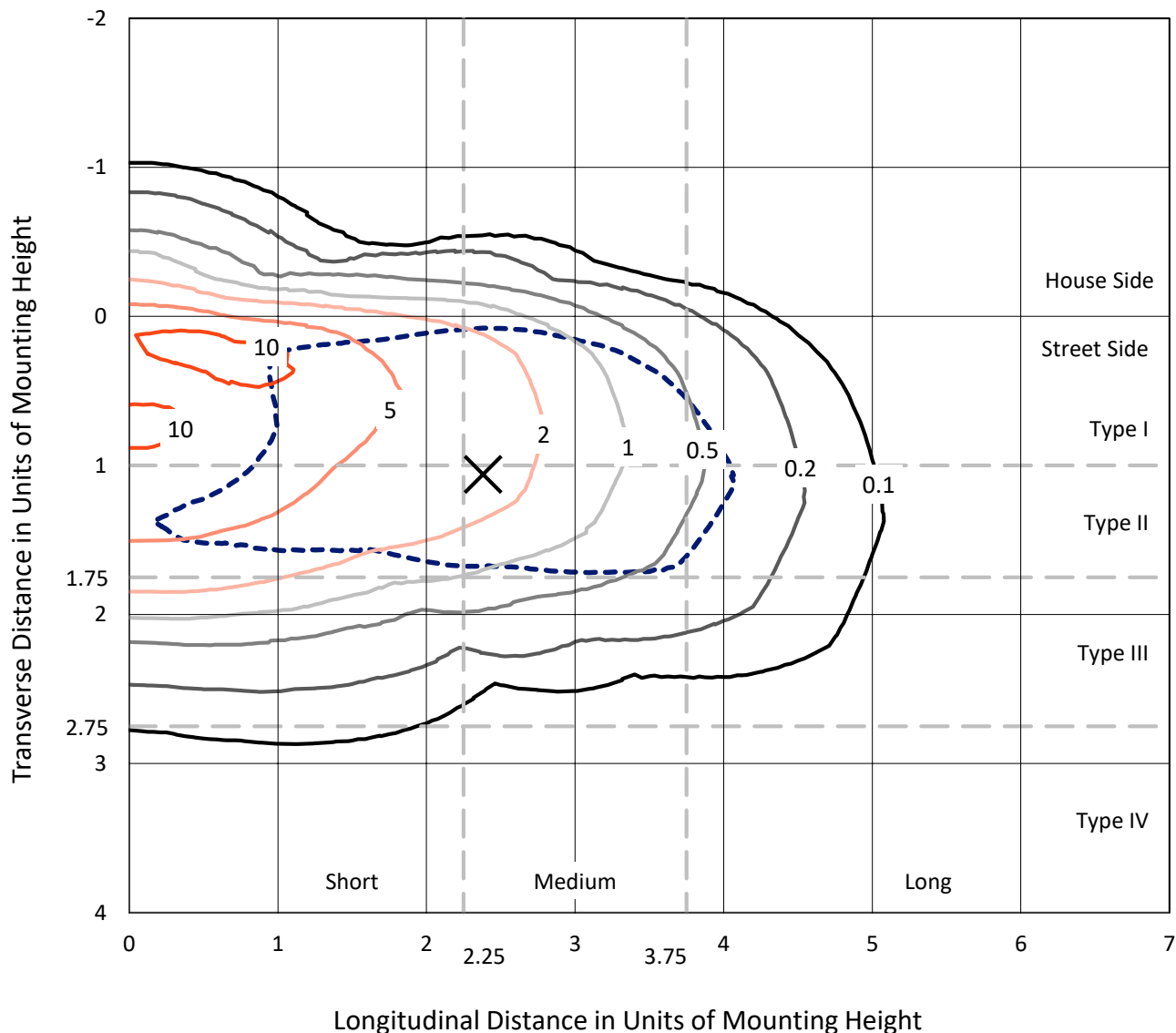
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

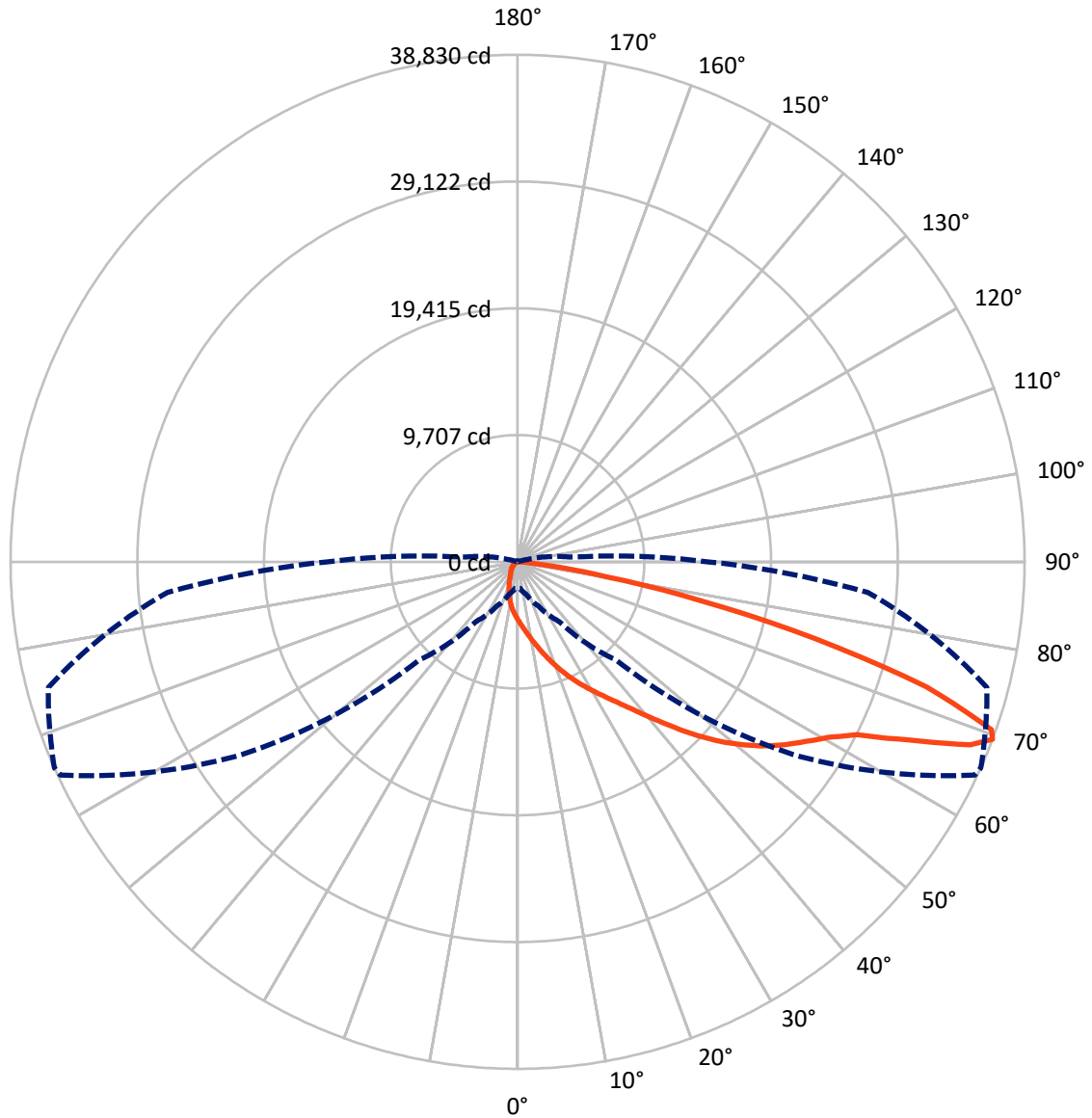
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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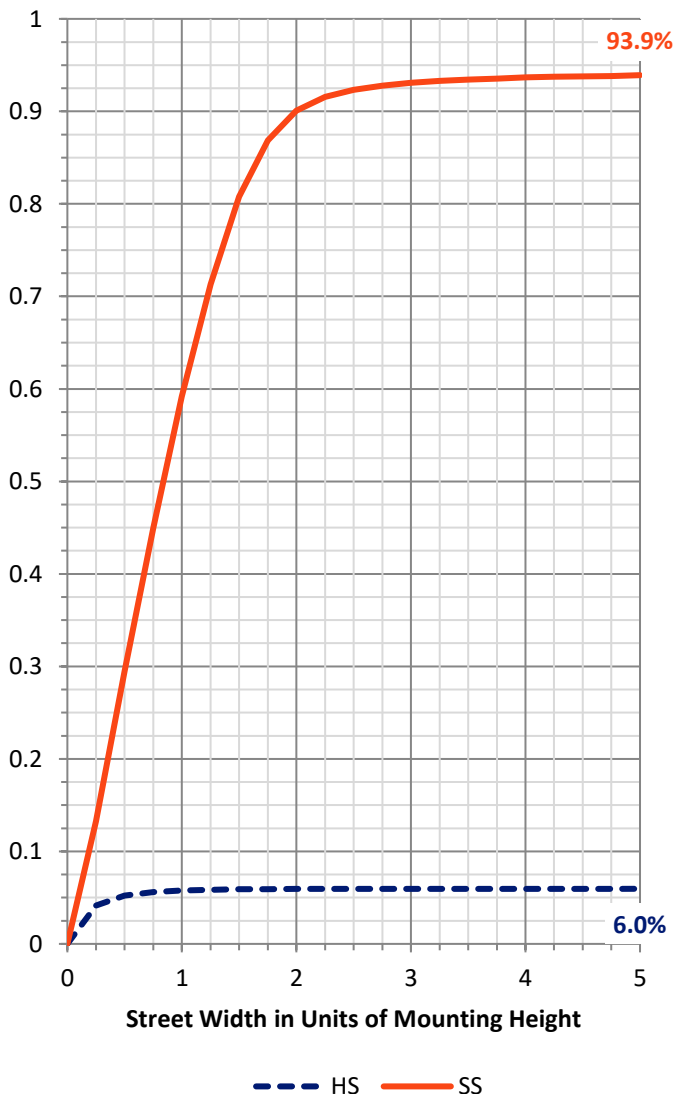
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2342.0	0.0	2342.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	36701.0	0.0	36701.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	39043.0	0.0	39043.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.1
10°-20°	1278.3	3.3
20°-30°	2225.9	5.7
30°-40°	3905.4	10.0
40°-50°	6537.0	16.7
50°-60°	9608.8	24.6
60°-70°	9865.8	25.3
70°-80°	4870.5	12.5
80°-90°	322.0	0.8
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°	39043.0	100.0
0°-180°	39043.0	100.0

Coefficient of Utilization

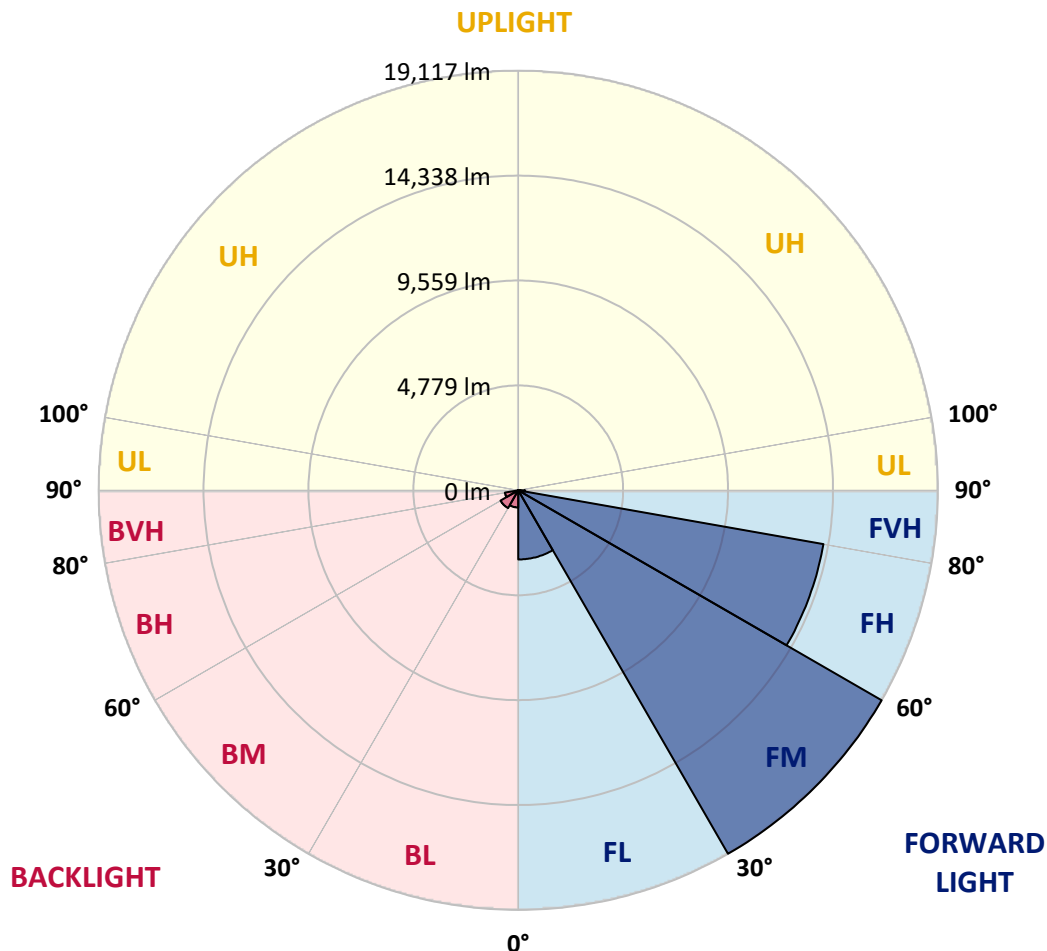


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3150.4	8.1			
FM (30°-60°)	19117.3	49.0			
FH (60°-80°)	14119.0	36.2			G5
FVH (80°-90°)	314.3	0.8			G3/500
BL (0°-30°)	783.3	2.0	B2/1000		
BM (30°-60°)	933.8	2.4	B1/1000		
BH (60°-80°)	617.2	1.6	B2/1000		G2/1000
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	5229.5	5207.2	5198.0	5157.2	5086.7	5032.9	4929.1	4808.5	4786.3	4669.5	4526.7
5°	5908.2	5889.7	5876.7	5819.2	5746.9	5611.5	5422.4	5198.0	5155.3	4932.8	4647.2
7.5°	6381.1	6414.5	6414.5	6377.4	6286.5	6184.5	5952.7	5646.7	5593.0	5251.8	4808.5
10°	6657.4	6698.2	6729.7	6761.3	6748.3	6707.5	6488.7	6143.7	6078.8	5626.3	4995.8
12.5°	6683.4	6724.2	6813.2	6944.8	7072.8	7165.5	7028.3	6694.5	6620.3	6060.3	5218.4
15°	6538.7	6581.4	6718.6	6974.5	7284.2	7555.0	7599.5	7304.6	7228.6	6577.7	5496.5
17.5°	6286.5	6314.3	6510.9	6865.1	7351.0	7848.0	8116.8	7959.2	7888.8	7169.2	5806.2
20°	6099.2	6119.6	6292.1	6672.2	7310.2	8031.5	8606.4	8654.6	8580.5	7803.4	6141.9
22.5°	6420.0	6457.1	6462.7	6642.6	7198.9	8122.4	9036.6	9338.9	9283.3	8476.6	6472.0
25°	7297.2	7339.8	7198.9	7087.6	7293.5	8163.2	9405.7	10039.9	9995.4	9201.7	6803.9
27.5°	8456.2	8500.7	8319.0	7987.0	7788.6	8317.1	9733.9	10752.0	10750.1	9969.4	7161.8
30°	9594.8	9639.3	9453.9	9122.0	8665.8	8752.9	10017.6	11497.5	11508.6	10761.3	7542.0
32.5°	10789.1	10844.7	10653.7	10227.2	9750.6	9505.8	10416.3	12246.7	12309.7	11679.2	7970.3
35°	12146.5	12153.9	11885.1	11438.1	10889.2	10512.8	11056.1	13086.7	13236.9	12816.0	8513.7
37.5°	13478.0	13531.8	13311.1	12606.4	12102.0	11675.5	12007.4	14136.3	14349.6	14204.9	9223.9
40°	14464.6	14577.7	14546.2	13785.8	13307.4	13003.3	13188.7	15384.4	15655.1	15822.0	10119.6
42.5°	15083.9	15169.3	15313.9	14855.9	14421.9	14472.0	14583.3	16838.2	17172.0	17665.3	11148.8
45°	15794.2	15835.0	15955.5	15753.4	15460.4	15964.8	16063.1	18475.7	18826.2	19647.7	12291.2
47.5°	16662.1	16758.5	16791.9	16606.4	16472.9	17285.2	17489.1	19964.8	20456.2	21771.0	13500.3
50°	17767.3	17793.3	17850.8	17730.2	17596.7	18420.1	18768.7	21528.1	21975.0	23901.8	14692.7
52.5°	18848.4	18941.2	19141.4	19065.4	19011.6	19386.2	19909.2	22937.5	23436.3	25678.3	15883.2
55°	19160.0	19239.7	19931.4	20404.3	20842.0	20576.8	20999.6	24200.3	24740.0	27265.7	17029.2
57.5°	17915.7	18077.0	19275.0	20506.3	22321.8	22427.5	22498.0	25496.6	25980.6	28482.2	18221.6
60°	14770.5	14802.1	16767.8	18880.0	22077.0	24042.7	24686.2	26889.3	27295.4	29615.3	19649.6
62.5°	9394.6	9715.4	11872.1	14854.0	19488.2	23809.1	27332.5	28995.9	29144.3	30974.6	21696.9
65°	4474.7	4682.4	6236.5	9177.6	14115.9	20817.9	29159.1	32806.8	32873.5	33669.1	24432.1
67.5°	2477.5	2577.7	3317.6	4940.2	8252.2	14722.3	28421.0	37320.4	37383.5	36421.0	26831.8
69°	1937.9	2023.2	2605.5	3723.7	5594.8	10581.4	25719.1	38642.7	38829.9	37209.2	26917.1
70°	1644.9	1728.3	2243.9	3145.1	4498.9	8176.2	22893.0	38314.4	38512.8	37135.0	26281.0
72.5°	1007.0	1055.2	1494.7	2214.2	3015.3	4113.1	14117.8	32402.5	32738.1	34064.1	22587.0
75°	678.7	704.7	934.6	1528.1	2156.7	2117.8	7334.3	22839.2	23566.1	26498.0	16682.5
77.5°	485.9	510.0	626.8	988.4	1511.4	1398.2	3321.3	14193.8	14349.6	15892.5	9097.8
80°	276.3	298.6	443.2	587.9	1025.5	932.8	1320.4	6779.8	6857.7	6815.0	3037.6
82.5°	144.6	163.2	242.9	387.6	658.3	610.1	548.9	2269.8	2281.0	1897.1	665.7
85°	27.8	33.4	120.5	265.2	339.4	265.2	224.4	532.2	543.3	480.3	165.0
87.5°	0.0	1.9	48.2	59.3	66.8	68.6	72.3	103.8	111.3	150.2	44.5
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°	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2	4443.2
2.5°	4463.6	4396.9	4268.9	4120.5	4005.6	3892.5	3803.4	3710.7	3677.3	3660.6	3658.8
5°	4508.1	4367.2	4096.4	3818.3	3590.2	3375.1	3221.1	3074.6	3006.0	2974.5	2961.5
7.5°	4582.3	4356.1	3920.3	3495.6	3167.4	2898.5	2685.2	2525.7	2446.0	2412.6	2399.6
10°	4669.5	4341.2	3714.4	3154.4	2735.3	2457.1	2245.7	2088.1	2000.9	1963.8	1945.3
12.5°	4771.5	4315.3	3477.1	2809.5	2366.3	2088.1	1832.2	1637.5	1537.3	1494.7	1474.3
15°	4897.6	4289.3	3228.6	2484.9	2041.7	1702.4	1422.3	1290.7	1270.3	1262.9	1264.7
17.5°	5021.8	4248.5	2957.8	2164.1	1700.5	1329.6	1186.8	1179.4	1183.1	1183.1	1183.1
20°	5133.1	4155.8	2663.0	1889.7	1376.0	1121.9	1092.3	1079.3	1070.0	1062.6	1053.3
22.5°	5220.2	4031.5	2379.2	1617.1	1123.8	1027.4	981.0	940.2	906.8	884.6	873.4
25°	5279.6	3866.5	2119.6	1355.6	1010.7	934.6	851.2	782.6	730.6	699.1	686.1
27.5°	5324.1	3688.5	1887.8	1134.9	932.8	827.1	717.7	636.1	582.3	554.5	543.3
30°	5355.6	3486.3	1683.8	997.7	845.6	714.0	597.1	517.4	478.4	463.6	456.2
32.5°	5385.3	3261.9	1491.0	932.8	764.0	610.1	500.7	439.5	415.4	396.8	391.3
35°	5459.4	3054.2	1307.4	864.2	680.6	521.1	430.2	385.7	361.6	350.5	346.8
37.5°	5635.6	2900.3	1131.2	793.7	597.1	450.6	376.4	344.9	322.7	311.5	307.8
40°	5919.3	2822.4	982.8	717.7	515.5	396.8	341.2	311.5	287.4	270.7	267.0
42.5°	6336.6	2833.6	879.0	641.6	450.6	354.2	307.8	272.6	246.6	231.8	228.1
45°	6842.9	2915.2	806.7	567.5	396.8	320.8	270.7	233.7	209.6	196.6	192.9
47.5°	7391.8	3046.8	747.3	500.7	354.2	289.3	233.7	194.7	174.3	163.2	161.3
50°	7970.3	3174.8	686.1	435.8	317.1	257.8	196.6	161.3	144.6	135.4	131.7
52.5°	8556.3	3323.1	630.5	376.4	285.6	220.7	163.2	131.7	118.7	111.3	107.6
55°	9186.9	3434.4	576.7	330.1	254.1	187.3	135.4	109.4	98.3	89.0	87.2
57.5°	9928.6	3606.9	521.1	285.6	217.0	155.8	111.3	87.2	77.9	68.6	66.8
60°	10930.0	3809.0	461.8	252.2	178.0	128.0	90.9	70.5	59.3	51.9	50.1
62.5°	12250.4	4033.4	387.6	220.7	144.6	103.8	72.3	55.6	42.7	33.4	33.4
65°	13924.9	4398.7	317.1	185.4	118.7	85.3	55.6	40.8	24.1	14.8	14.8
67.5°	14902.2	4461.8	255.9	152.1	96.4	72.3	46.4	27.8	7.4	1.9	0.0
69°	14588.8	4096.4	217.0	129.8	83.4	68.6	42.7	20.4	3.7	0.0	0.0
70°	13999.1	3746.0	191.0	115.0	76.0	64.9	40.8	14.8	3.7	0.0	0.0
72.5°	11567.9	2666.7	144.6	85.3	55.6	57.5	37.1	9.3	3.7	0.0	0.0
75°	8426.5	1620.8	103.8	59.3	35.2	42.7	26.0	3.7	1.9	0.0	0.0
77.5°	4688.0	764.0	64.9	33.4	22.3	26.0	13.0	0.0	0.0	0.0	0.0
80°	1522.5	207.7	29.7	18.5	13.0	14.8	5.6	0.0	0.0	0.0	0.0
82.5°	281.9	59.3	16.7	9.3	3.7	3.7	0.0	0.0	0.0	0.0	0.0
85°	61.2	24.1	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.4	7.4	1.9	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)