

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: P322563

Luminaire Tested: **GAN-SA9B-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322563
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-SA9B-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 36281 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

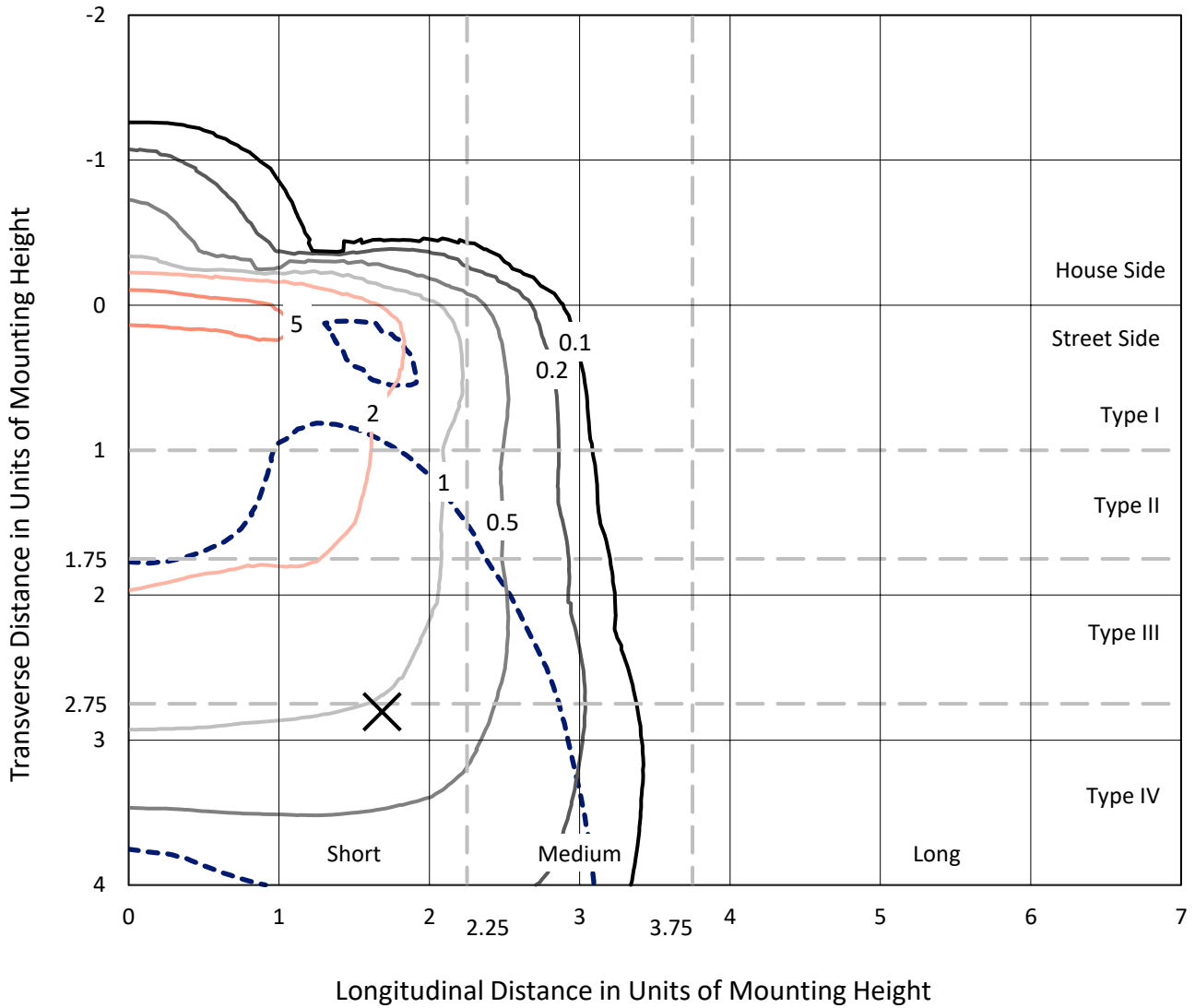
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

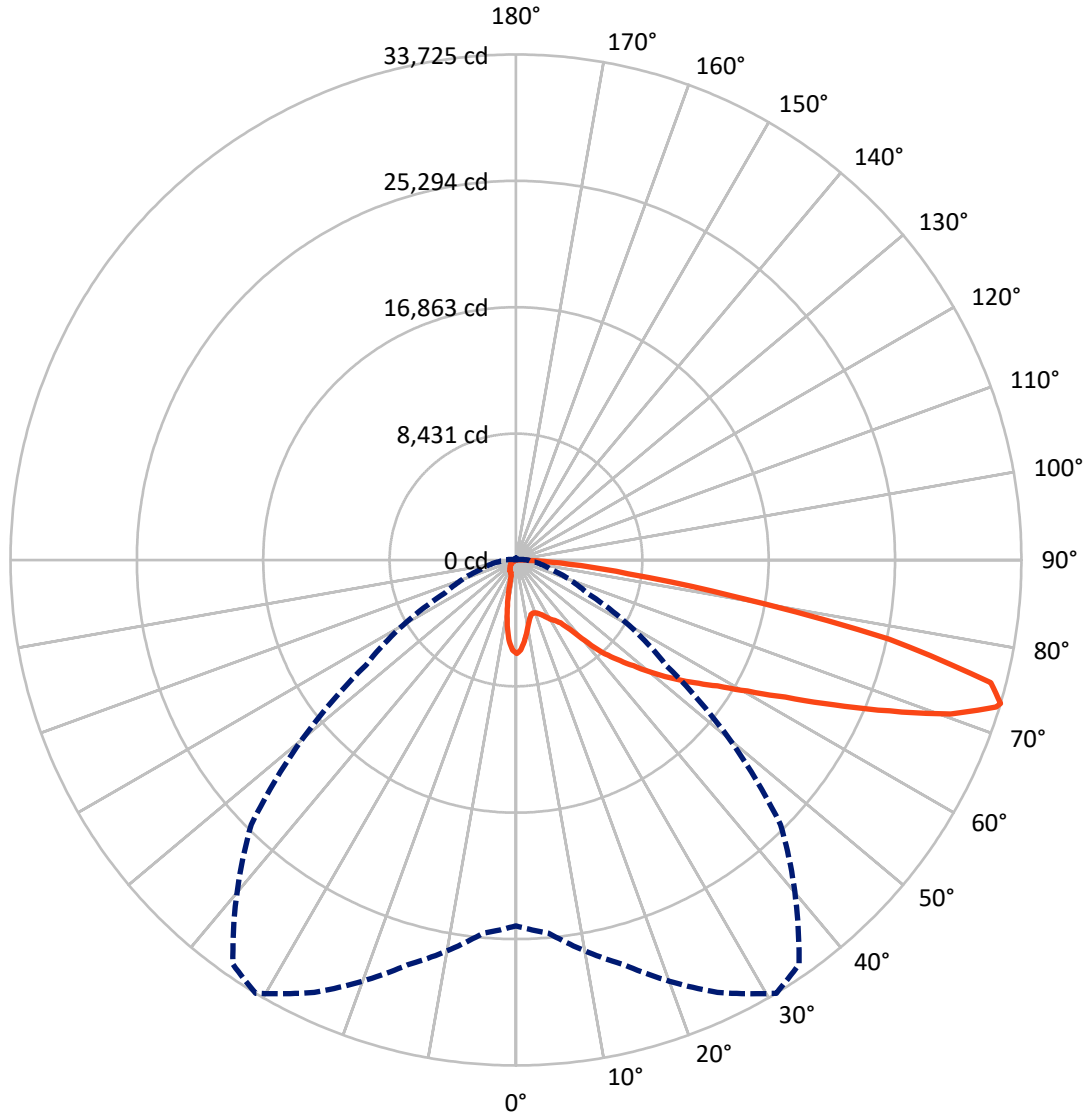
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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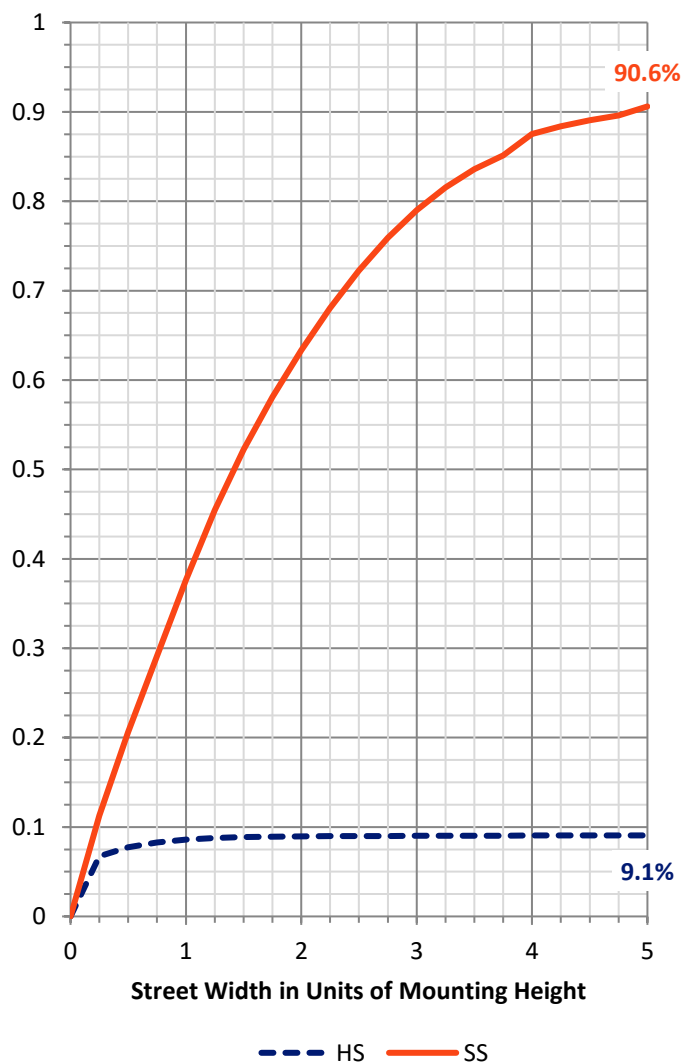
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.1	0.0	3307.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32973.9	0.0	32973.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	36281.0	0.0	36281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.6	1.4
10°-20°	1123.8	3.1
20°-30°	1683.8	4.6
30°-40°	2678.9	7.4
40°-50°	4783.7	13.2
50°-60°	7423.0	20.5
60°-70°	9867.8	27.2
70°-80°	7422.6	20.5
80°-90°	780.0	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°	36281.0	100.0
0°-180°	36281.0	100.0

Coefficient of Utilization



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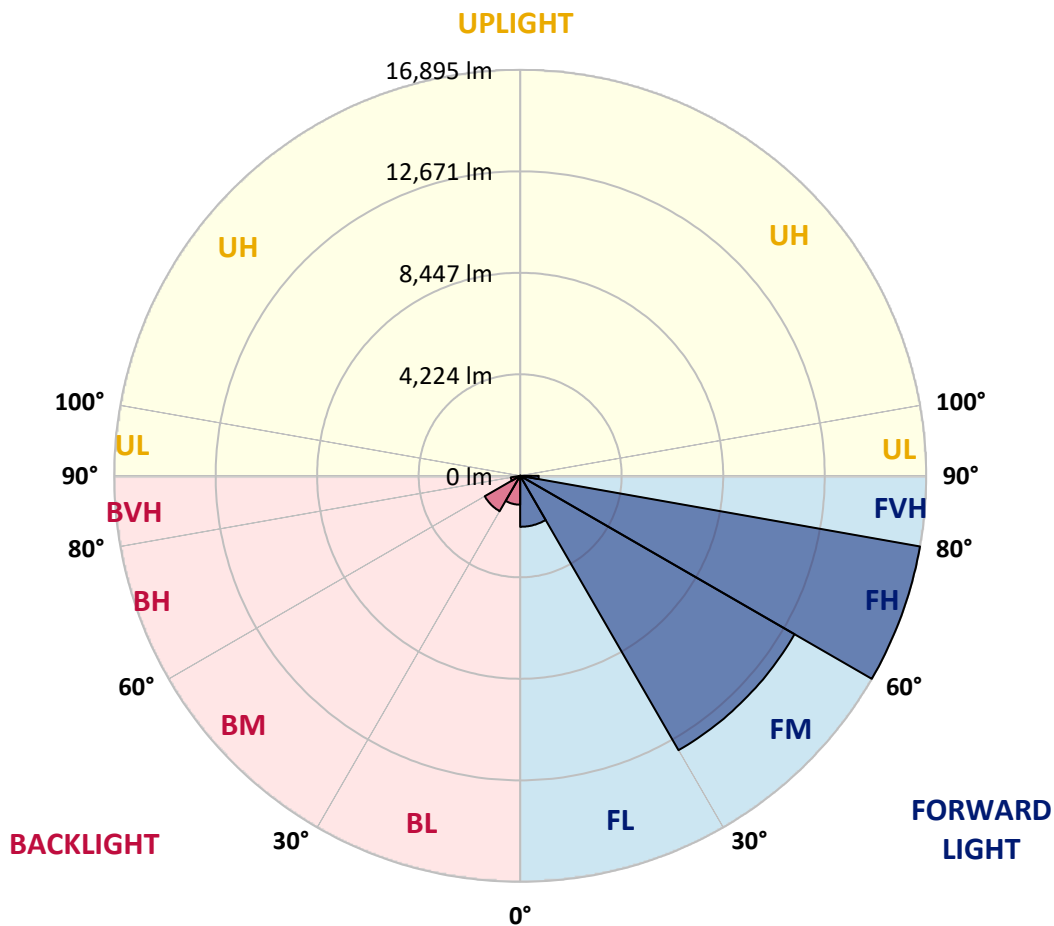
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2122.5	5.9			
FM (30°-60°)	13183.3	36.3			
FH (60°-80°)	16894.7	46.6			G5
FVH (80°-90°)	773.4	2.1			G5
BL (0°-30°)	1202.6	3.3	B3/2500		
BM (30°-60°)	1702.3	4.7	B2/2500		
BH (60°-80°)	395.7	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°	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2
2.5°	5915.6	5940.4	5967.0	5972.4	6016.7	6018.5	6082.4	6130.4	6178.3	6224.5	6240.4
5°	5308.4	5349.2	5397.1	5445.1	5539.2	5576.5	5732.7	5892.5	6045.2	6190.7	6261.7
7.5°	4660.4	4706.5	4774.0	4892.9	4997.7	5070.5	5317.2	5601.3	5885.4	6153.5	6307.9
10°	4069.2	4111.8	4182.8	4308.8	4470.4	4569.8	4901.8	5295.9	5713.2	6119.7	6377.1
12.5°	3692.8	3715.9	3754.9	3889.8	4035.4	4147.3	4537.9	5026.1	5571.1	6117.9	6489.0
15°	3623.5	3630.6	3598.7	3659.0	3772.7	3881.0	4276.9	4807.7	5462.8	6146.4	6634.6
17.5°	3733.6	3730.1	3623.5	3616.4	3707.0	3795.8	4149.1	4656.8	5386.5	6212.0	6822.8
20°	3900.5	3888.1	3703.4	3669.7	3765.6	3849.0	4140.2	4600.0	5358.1	6322.1	7051.8
22.5°	4122.4	4101.1	3811.7	3776.2	3879.2	3966.2	4250.2	4655.0	5382.9	6469.5	7318.1
25°	4397.6	4365.6	3998.1	3959.1	4063.8	4150.8	4447.3	4813.0	5457.5	6648.8	7655.4
27.5°	4708.3	4662.1	4296.4	4195.2	4314.2	4404.7	4710.1	5054.5	5574.7	6838.7	8069.1
30°	5001.2	4940.9	4610.7	4443.8	4589.3	4690.5	4994.1	5342.1	5762.9	7131.7	8635.4
32.5°	5295.9	5228.5	4891.2	4692.3	4823.7	4933.8	5287.1	5738.0	6116.2	7579.1	9388.2
35°	5974.1	5903.1	5489.5	5161.0	5159.2	5221.4	5697.2	6279.5	6583.1	8202.2	10286.5
37.5°	7115.7	7074.9	6680.7	6057.6	5890.7	5821.5	6256.4	6925.7	7254.2	9059.7	11300.3
40°	8365.6	8330.1	7888.0	7323.4	7069.5	6899.1	7058.9	7825.9	8202.2	10107.2	12335.3
42.5°	9777.0	9608.3	8820.1	8651.4	8424.2	8294.6	8150.7	8935.5	9366.9	11247.0	13361.5
45°	11058.8	10774.8	9752.1	9496.5	9445.0	9477.0	9556.8	10426.8	10677.1	12601.6	14384.1
47.5°	11822.2	11598.5	10813.8	10568.8	10554.6	10765.9	11369.5	12111.6	11982.0	13782.2	15284.2
50°	12548.4	12346.0	11694.4	11754.8	11820.5	12108.1	13427.2	13844.4	13173.3	14852.8	16109.8
52.5°	13136.0	12827.1	12486.2	12825.3	13148.4	13611.8	15550.5	15399.6	14018.4	15705.0	16816.4
55°	13475.1	13334.8	13500.0	13840.8	14448.0	15200.8	17554.9	16693.9	14636.2	16482.6	17286.8
57.5°	14717.9	14442.7	14771.1	15065.8	15857.7	16910.5	19271.7	17657.9	15081.8	16963.7	17395.1
60°	16221.6	15999.7	16193.2	16683.2	17752.0	18989.4	20876.6	18444.4	15314.4	17272.6	17114.6
62.5°	18614.8	18321.9	18201.2	18749.7	20166.5	21517.6	22094.5	18989.4	15262.9	17135.9	16152.4
65°	21821.1	21517.6	20977.8	21474.9	23276.9	24230.3	23456.3	19104.8	14907.8	16029.9	13720.1
67.5°	25105.6	24885.4	24423.8	25261.8	26888.1	27195.2	24896.1	18824.3	13764.5	12997.5	9693.6
70°	27275.1	27181.0	27481.0	29334.5	30785.0	30696.2	26217.0	17317.0	10728.6	7992.7	4795.3
72.5°	25711.0	26161.9	28377.6	31738.4	33510.2	32785.9	25538.8	13297.6	6132.1	3075.0	1386.6
73°	24415.0	24992.0	27974.6	31828.9	33725.0	32931.4	24968.9	12205.7	5226.7	2426.9	1051.0
75°	16985.0	17693.4	23159.8	29643.4	32720.2	31376.2	20812.7	7470.8	2421.6	1075.9	424.3
77.5°	8246.6	8770.4	12752.5	21418.1	25446.5	24514.4	12956.7	2783.8	1093.6	672.9	195.3
80°	3078.5	3422.9	5535.6	10900.8	14705.4	15090.7	5699.0	1052.8	727.9	541.5	99.4
82.5°	806.0	898.3	2041.7	4861.0	7536.5	7888.0	1796.7	530.8	532.6	445.6	60.4
85°	257.4	294.7	637.4	2181.9	3550.8	3117.6	468.7	257.4	387.0	332.0	33.7
87.5°	32.0	40.8	202.4	513.1	782.9	435.0	72.8	76.3	165.1	184.6	19.5
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°	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2	6242.2
2.5°	6256.4	6247.5	6249.3	6203.2	6173.0	6112.6	6050.5	6022.1	5991.9	5979.5	5991.9
5°	6288.4	6272.4	6226.2	6084.2	5933.3	5738.0	5555.2	5416.7	5242.7	5194.7	5244.5
7.5°	6338.1	6306.1	6171.2	5881.8	5546.3	5173.4	4754.5	4449.1	4198.8	4037.2	4095.8
10°	6410.9	6350.5	6078.9	5587.1	4987.0	4326.6	3731.8	3268.5	2940.0	2805.1	2799.8
12.5°	6533.4	6419.8	5965.3	5203.6	4303.5	3422.9	2643.5	2141.1	1874.8	1702.6	1699.0
15°	6668.3	6501.4	5821.5	4743.8	3508.1	2451.8	1702.6	1320.9	1148.7	1093.6	1086.5
17.5°	6833.4	6595.5	5635.0	4177.5	2675.5	1624.5	1111.4	1001.3	994.2	988.9	988.9
20°	7041.1	6707.4	5395.4	3529.4	1897.9	1084.8	944.5	951.6	955.2	948.1	949.8
22.5°	7282.6	6821.0	5109.5	2833.5	1283.6	907.2	903.7	912.5	916.1	912.5	914.3
25°	7563.1	6952.4	4761.6	2103.8	926.7	861.1	869.9	882.4	891.2	891.2	891.2
27.5°	7911.1	7112.2	4342.6	1468.2	800.7	813.1	838.0	861.1	873.5	877.0	877.0
30°	8363.8	7311.0	3840.1	1006.6	727.9	749.2	795.4	839.8	862.8	866.4	868.2
32.5°	8935.5	7534.7	3257.8	743.9	665.8	681.7	731.5	806.0	850.4	857.5	857.5
35°	9590.6	7793.9	2631.1	648.0	621.4	626.7	665.8	751.0	829.1	848.6	850.4
37.5°	10307.8	8049.6	2000.8	605.4	584.1	584.1	612.5	685.3	777.6	838.0	845.1
40°	10977.1	8204.0	1402.5	571.7	550.4	550.4	575.2	628.5	715.5	806.0	825.5
42.5°	11595.0	8257.3	976.5	539.7	518.4	523.7	545.0	587.6	653.3	743.9	761.6
45°	12230.6	8248.4	711.9	502.4	486.5	502.4	518.4	550.4	598.3	649.8	653.3
47.5°	12709.9	8173.8	564.6	466.9	456.3	477.6	491.8	513.1	539.7	536.2	536.2
50°	13159.1	7992.7	454.5	419.0	426.1	450.9	458.0	465.1	466.9	433.2	429.6
52.5°	13500.0	7710.5	364.0	367.5	395.9	420.8	413.7	403.0	385.3	344.4	337.3
55°	13613.6	7167.2	285.8	303.6	351.5	383.5	356.9	333.8	300.0	266.3	259.2
57.5°	13407.6	6465.9	232.6	236.1	296.5	323.1	292.9	266.3	229.0	200.6	195.3
60°	12970.9	5686.5	191.7	177.5	229.0	252.1	232.6	205.9	172.2	150.9	149.1
62.5°	12104.5	4855.7	158.0	138.5	174.0	193.5	181.1	161.6	133.2	119.0	117.2
65°	10283.0	3884.5	127.8	111.8	134.9	150.9	140.3	126.1	104.7	94.1	92.3
67.5°	7177.8	2625.8	104.7	92.3	106.5	119.0	110.1	103.0	83.4	81.7	83.4
70°	3462.0	1265.8	87.0	74.6	83.4	92.3	88.8	83.4	79.9	92.3	106.5
72.5°	992.4	424.3	69.2	62.1	67.5	72.8	76.3	74.6	87.0	111.8	129.6
73°	763.4	342.6	65.7	58.6	63.9	71.0	74.6	72.8	88.8	113.6	129.6
75°	326.7	165.1	49.7	47.9	53.3	62.1	65.7	65.7	88.8	115.4	124.3
77.5°	147.4	88.8	32.0	37.3	46.2	49.7	55.0	55.0	71.0	88.8	88.8
80°	83.4	47.9	24.9	28.4	33.7	33.7	33.7	30.2	32.0	35.5	39.1
82.5°	53.3	32.0	19.5	23.1	21.3	17.8	14.2	14.2	12.4	14.2	17.8
85°	30.2	17.8	17.8	14.2	8.9	7.1	8.9	7.1	1.8	0.0	1.8
87.5°	17.8	10.7	5.3	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)