

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: P319969

Luminaire Tested: **GAN-SA5C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30591 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

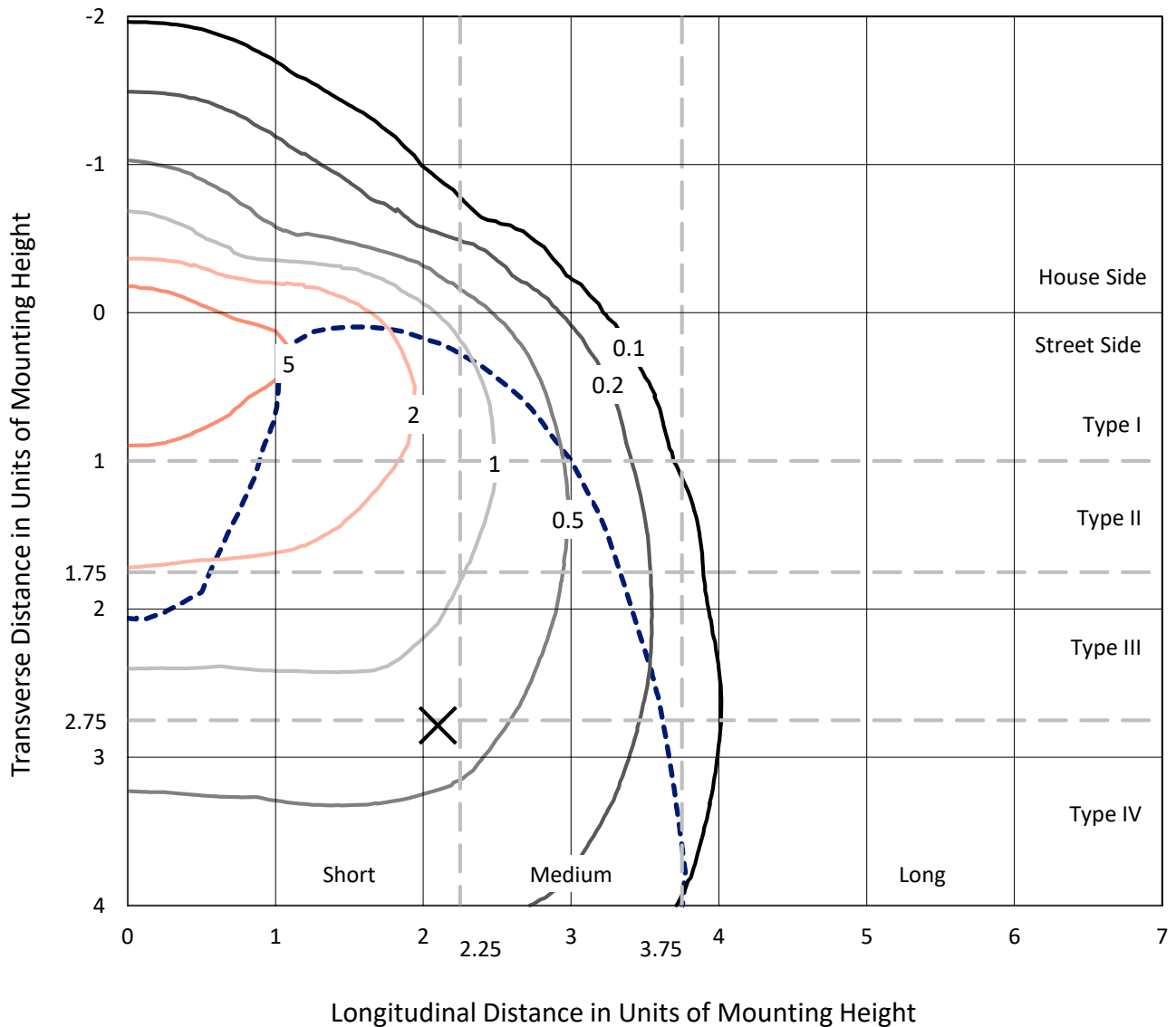
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

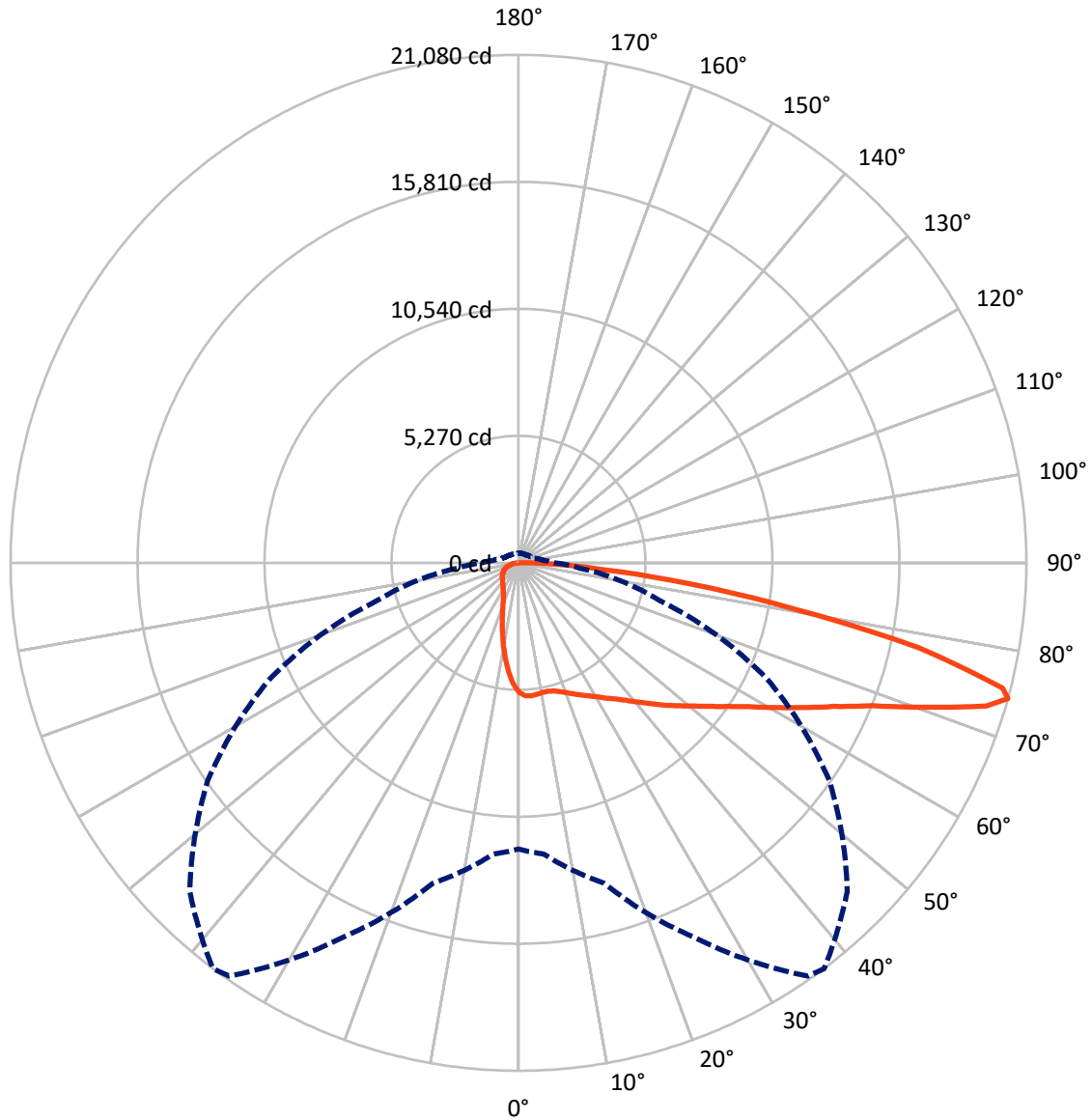
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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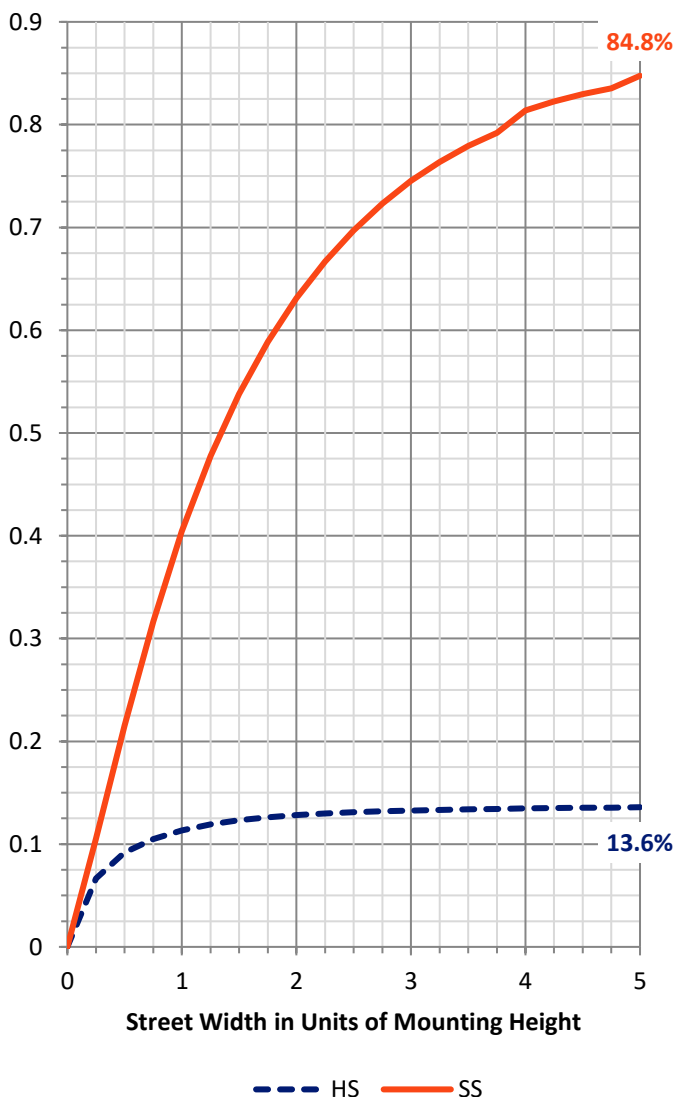
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4209.1	0.0	4209.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	26381.9	0.0	26381.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	30591.0	0.0	30591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.7	1.6
10°-20°	1216.7	4.0
20°-30°	1874.6	6.1
30°-40°	2726.0	8.9
40°-50°	4012.2	13.1
50°-60°	5634.4	18.4
60°-70°	7131.4	23.3
70°-80°	6279.5	20.5
80°-90°	1241.6	4.1
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°	30591.0	100.0
0°-180°	30591.0	100.0

Coefficient of Utilization



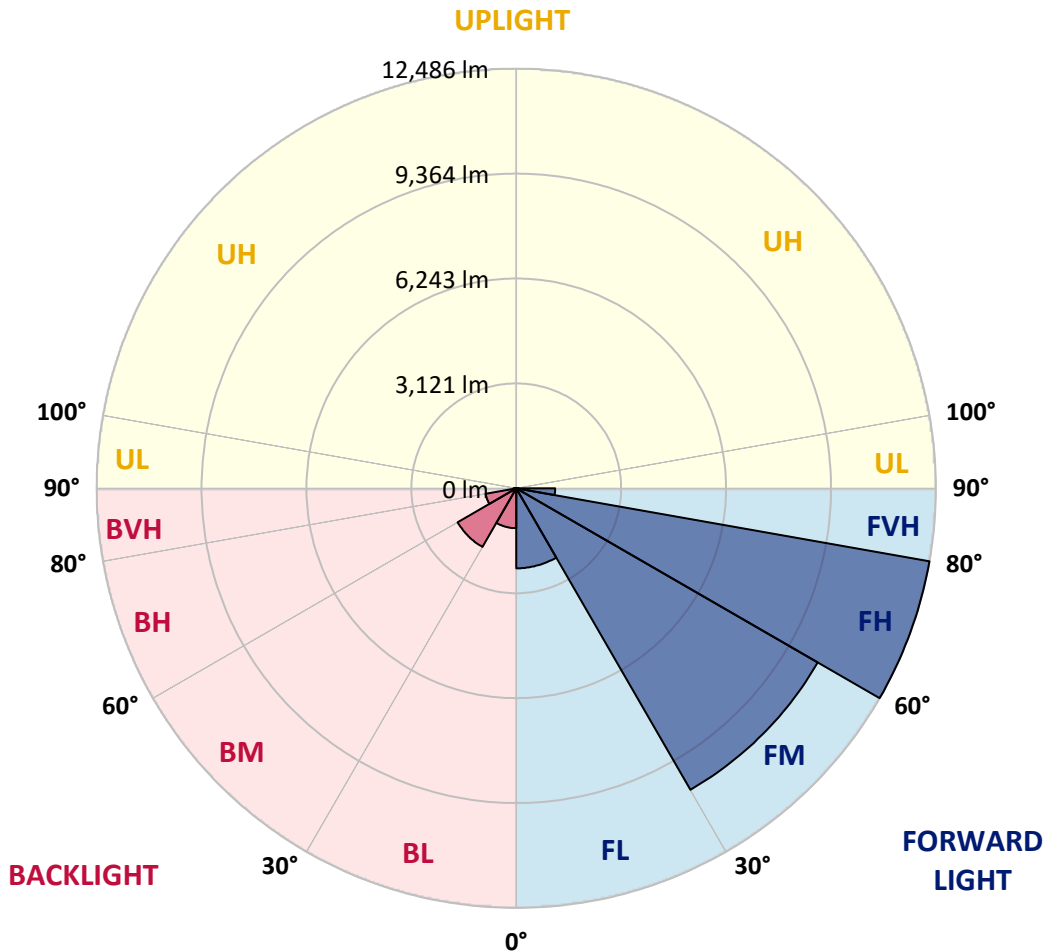
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.3	7.8			
FM (30°-60°)	10358.4	33.9			
FH (60°-80°)	12485.7	40.8			G5
FVH (80°-90°)	1157.5	3.8			G5
BL (0°-30°)	1185.6	3.9	B3/2500		
BM (30°-60°)	2014.2	6.6	B2/2500		
BH (60°-80°)	925.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	84.1	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0
2.5°	5574.3	5575.4	5574.3	5565.7	5545.2	5527.9	5513.9	5493.5	5448.2	5413.7	5362.0
5°	5627.1	5620.6	5616.3	5600.1	5567.8	5548.4	5521.5	5482.7	5408.3	5339.4	5255.3
7.5°	5602.3	5594.8	5585.1	5565.7	5529.0	5512.9	5475.1	5424.5	5335.1	5244.5	5123.9
10°	5525.8	5523.6	5519.3	5515.0	5483.8	5470.8	5436.4	5382.5	5294.1	5184.2	5043.0
12.5°	5440.7	5446.0	5463.3	5485.9	5471.9	5465.4	5443.9	5407.3	5316.7	5198.2	5028.0
15°	5386.8	5401.9	5448.2	5507.5	5519.3	5517.2	5511.8	5488.1	5392.2	5260.7	5062.4
17.5°	5368.5	5393.2	5481.6	5579.7	5614.2	5621.7	5623.8	5582.9	5476.2	5337.2	5098.0
20°	5401.9	5433.1	5562.4	5697.1	5752.1	5756.4	5746.7	5675.6	5556.0	5402.9	5117.4
22.5°	5503.2	5531.2	5692.8	5844.8	5907.3	5913.7	5884.6	5776.9	5640.0	5480.5	5144.3
25°	5698.2	5732.7	5894.3	6046.3	6078.6	6079.7	6037.6	5904.0	5749.9	5589.4	5202.5
27.5°	5952.5	5987.0	6132.5	6281.2	6263.9	6254.2	6197.1	6063.5	5893.2	5739.1	5306.0
30°	6235.9	6273.6	6411.6	6517.2	6476.2	6456.8	6410.5	6238.1	6092.6	5943.9	5464.4
32.5°	6529.0	6563.5	6684.2	6756.4	6704.7	6696.0	6626.0	6468.7	6352.3	6256.4	5720.8
35°	6829.7	6854.4	6973.0	7013.9	6945.0	6942.8	6923.4	6779.0	6705.7	6751.0	6093.7
37.5°	7136.8	7143.2	7244.5	7246.7	7226.2	7234.8	7255.3	7164.8	7185.3	7326.4	6578.6
40°	7410.5	7427.7	7501.0	7523.6	7559.2	7589.3	7691.7	7632.4	7790.8	8040.8	7182.0
42.5°	7613.0	7646.5	7763.9	7822.1	7937.4	7984.8	8129.2	8184.2	8503.1	8878.1	7899.7
45°	7784.4	7836.1	8024.7	8144.3	8339.3	8422.3	8629.2	8813.5	9308.1	9786.5	8655.1
47.5°	7969.7	8035.5	8271.4	8499.9	8765.0	8858.7	9234.8	9510.7	10166.9	10700.3	9367.3
50°	8242.3	8293.0	8523.6	8882.4	9213.2	9333.9	9854.4	10249.9	11039.7	11571.0	9984.8
52.5°	8622.7	8603.3	8798.4	9301.6	9745.6	9894.3	10516.0	11036.5	11924.4	12358.7	10506.3
55°	9005.3	8972.9	9109.8	9740.2	10366.2	10522.5	11244.5	11826.4	12766.0	13067.7	10906.1
57.5°	9430.9	9369.5	9484.8	10234.8	11073.1	11259.6	12060.2	12665.8	13593.6	13641.0	11160.4
60°	9869.5	9786.5	9915.8	10847.9	11970.7	12190.6	13014.9	13484.7	14373.7	14100.0	11242.3
62.5°	10253.1	10194.9	10394.3	11532.2	12982.6	13224.0	13952.4	14355.4	15143.1	14290.8	10947.1
65°	10588.2	10597.9	10942.7	12301.6	14110.8	14368.3	15027.8	15428.7	15748.7	14177.6	10256.3
67.5°	10988.0	11043.0	11631.3	13314.5	15531.0	15813.4	16592.5	16598.9	16087.1	13513.8	8896.4
70°	11571.0	11684.1	12578.5	14719.6	17550.4	17938.3	18539.6	17286.4	15611.9	11714.3	6999.9
72.5°	12088.2	12299.4	13586.0	16327.4	20011.6	20305.8	19678.6	16889.9	13625.9	8779.0	4360.9
74°	11878.1	12139.9	13769.2	17119.4	20938.3	21079.5	19293.9	15732.6	11360.8	6079.7	2534.4
75°	11425.5	11710.0	13502.0	17111.8	20820.8	20742.2	18365.1	14410.4	9356.6	4146.5	1686.4
77.5°	9220.8	9521.4	11377.0	14665.8	17072.0	16997.6	14107.6	9666.9	4098.0	1359.9	856.7
80°	5360.9	5590.4	7062.4	9313.5	11511.7	11646.4	9277.9	4783.3	1612.0	764.0	580.8
82.5°	2381.4	2539.8	3411.6	4754.2	6947.1	7120.6	4858.8	2506.4	995.7	464.4	349.1
85°	1562.5	1679.9	2071.1	2264.0	3308.1	3426.7	2378.2	1951.5	657.3	255.4	256.5
87.5°	1123.9	1237.1	1538.8	1343.7	1518.3	1437.5	1294.2	1806.0	264.0	145.5	86.2
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°	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0	5390.0
2.5°	5339.4	5322.1	5283.3	5210.1	5169.1	5134.6	5077.5	5044.1	5029.0	5028.0	5034.4
5°	5206.8	5167.0	5066.7	4943.9	4845.8	4756.4	4645.4	4578.6	4531.2	4503.2	4510.7
7.5°	5052.7	4990.2	4832.9	4636.8	4479.5	4306.0	4134.6	4032.3	3952.5	3893.3	3904.0
10°	4947.1	4860.9	4631.4	4349.1	4087.2	3835.1	3599.1	3457.9	3345.9	3259.7	3266.1
12.5°	4911.6	4795.2	4477.3	4100.2	3732.7	3387.9	3079.7	2863.1	2747.8	2649.7	2657.3
15°	4917.0	4760.7	4348.0	3876.0	3413.7	2979.5	2605.6	2352.3	2196.1	2128.2	2129.3
17.5°	4921.3	4720.8	4212.2	3635.7	3098.0	2598.0	2191.8	1935.3	1787.7	1725.2	1726.3
20°	4907.3	4656.2	4044.1	3359.9	2768.3	2247.8	1854.5	1636.8	1524.8	1476.3	1476.3
22.5°	4888.9	4579.7	3854.5	3082.9	2442.9	1943.9	1613.1	1447.2	1382.5	1350.2	1349.1
25°	4897.6	4522.6	3660.5	2798.5	2143.3	1701.5	1452.6	1342.7	1299.6	1279.1	1278.0
27.5°	4943.9	4495.6	3481.6	2515.1	1881.4	1519.4	1344.8	1267.2	1239.2	1226.3	1226.3
30°	5028.0	4495.6	3295.2	2273.7	1663.8	1384.7	1261.8	1209.0	1189.6	1181.0	1181.0
32.5°	5174.5	4520.4	3115.3	2034.5	1490.3	1279.1	1192.9	1157.3	1142.2	1137.9	1137.9
35°	5426.7	4604.5	2939.6	1808.2	1350.2	1192.9	1127.1	1106.7	1095.9	1094.8	1098.0
37.5°	5781.2	4775.8	2774.7	1641.1	1251.1	1122.8	1072.2	1056.0	1049.6	1054.9	1059.3
40°	6227.3	5008.6	2625.0	1490.3	1175.6	1066.8	1021.5	1010.8	1007.5	1015.1	1021.5
42.5°	6766.1	5323.2	2502.1	1381.4	1117.4	1019.4	978.4	965.5	962.3	970.9	979.5
45°	7349.0	5661.6	2415.9	1300.6	1072.2	983.8	940.7	926.7	920.2	924.6	934.3
47.5°	7879.2	5981.6	2381.4	1243.5	1029.1	953.7	907.3	890.1	879.3	877.1	884.7
50°	8326.4	6219.7	2397.6	1209.0	994.6	920.2	875.0	855.6	839.4	829.7	835.1
52.5°	8651.8	6369.5	2412.7	1193.9	967.7	883.6	839.4	821.1	799.6	783.4	783.4
55°	8887.8	6404.0	2379.3	1182.1	947.2	843.7	799.6	782.3	760.8	742.4	740.3
57.5°	8980.5	6307.0	2255.4	1164.9	933.2	806.0	757.5	744.6	726.3	704.7	703.7
60°	8855.5	6007.5	2016.1	1128.2	914.9	774.8	715.5	706.9	698.3	677.8	676.7
62.5°	8353.3	5350.1	1706.9	1053.9	878.2	741.4	676.7	681.0	682.1	668.1	665.9
65°	7442.8	4447.1	1405.2	956.9	823.3	701.5	636.8	657.3	669.2	667.0	663.8
67.5°	6119.5	3461.2	1190.7	854.5	751.1	646.5	593.7	617.4	627.1	634.7	632.5
70°	4542.0	2440.7	984.9	746.8	663.8	581.9	537.7	549.6	543.1	551.7	554.9
72.5°	2532.3	1464.4	802.8	639.0	573.3	506.5	475.2	473.1	459.0	459.0	459.0
74°	1519.4	1074.3	705.8	572.2	518.3	456.9	430.0	420.3	407.3	408.4	407.3
75°	1222.0	923.5	647.6	528.0	479.5	427.8	400.9	387.9	378.2	378.2	377.2
77.5°	771.5	701.5	521.5	420.3	383.6	352.4	334.0	316.8	316.8	315.7	314.7
80°	583.0	558.2	406.2	317.9	294.2	270.5	258.6	251.1	251.1	254.3	253.2
82.5°	399.8	420.3	285.6	222.0	210.1	192.9	190.7	191.8	188.6	184.3	183.2
85°	292.0	315.7	192.9	140.1	128.2	117.5	126.1	130.4	125.0	115.3	111.0
87.5°	112.1	206.9	103.4	58.2	53.9	46.3	53.9	56.0	60.3	47.4	48.5
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)