

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: P319959

Luminaire Tested: **GAN-SA5B-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319959
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-SA5B-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 24716 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

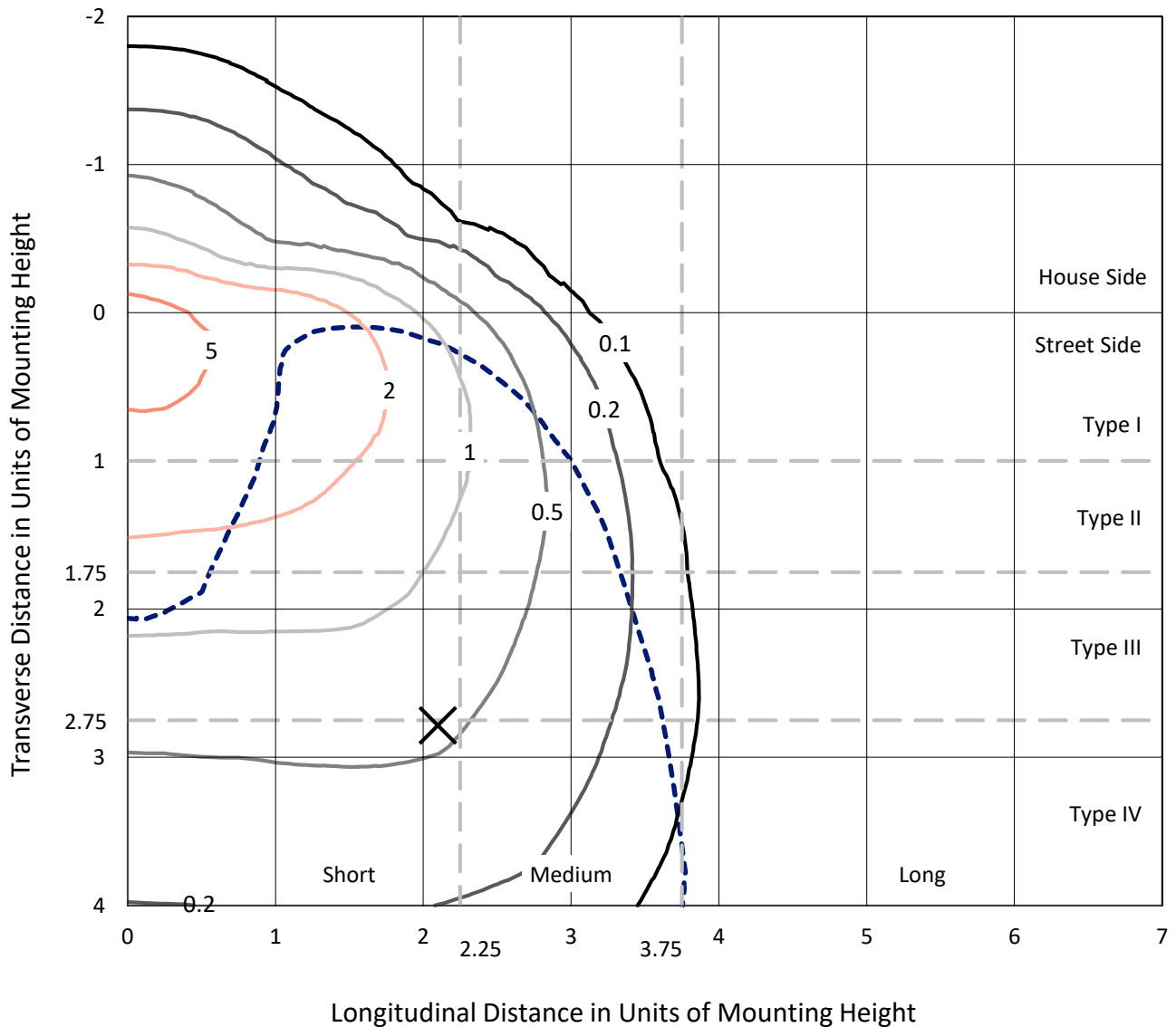
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

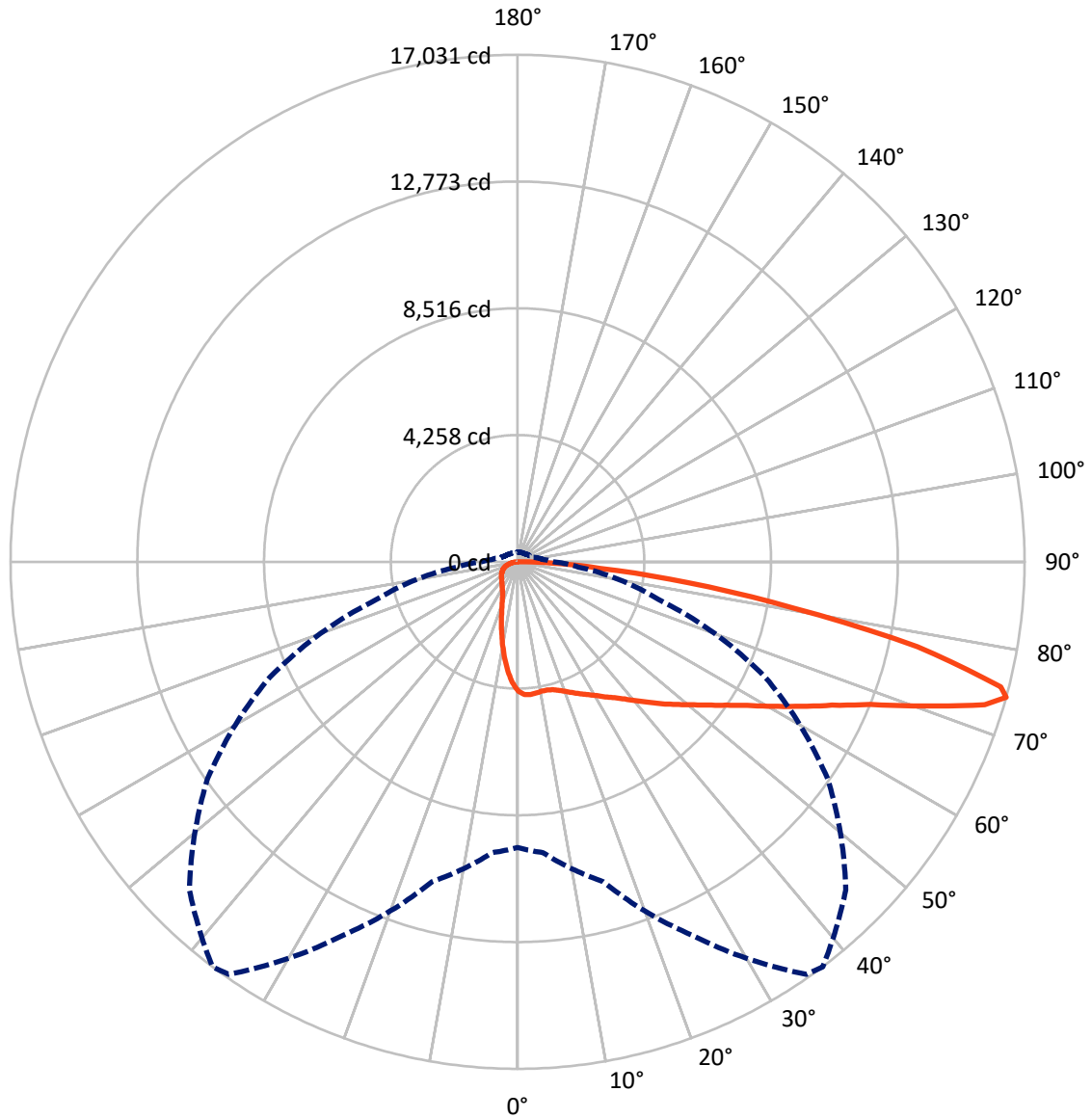
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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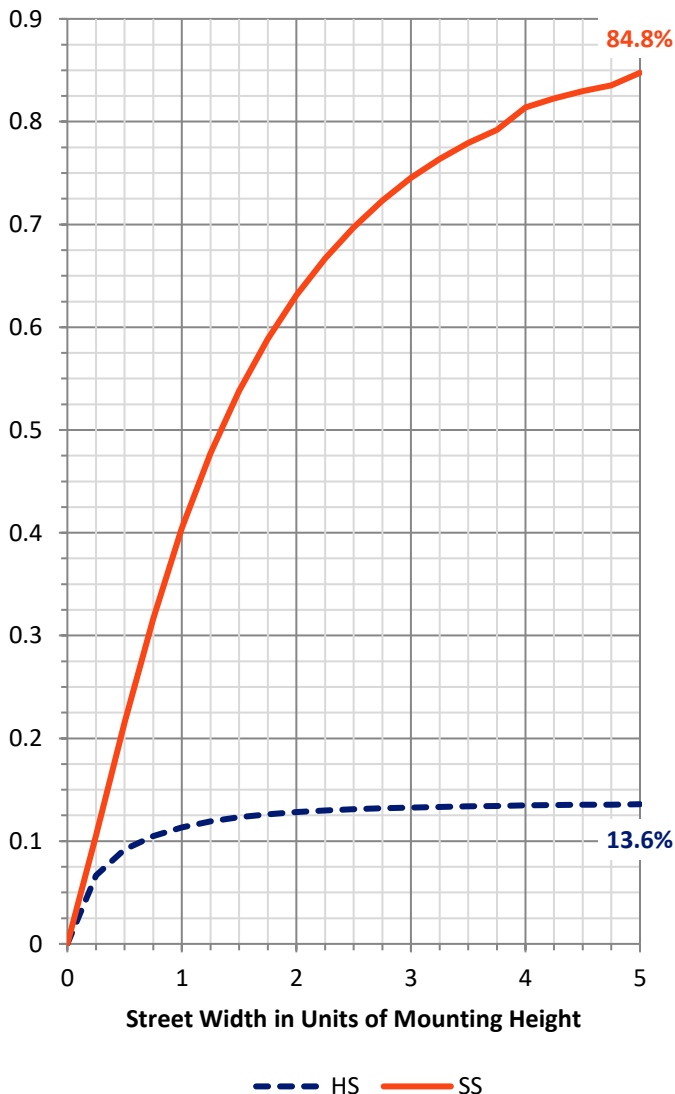
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3400.7	0.0	3400.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	21315.3	0.0	21315.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	24716.0	0.0	24716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	1.6
10°-20°	983.0	4.0
20°-30°	1514.6	6.1
30°-40°	2202.5	8.9
40°-50°	3241.7	13.1
50°-60°	4552.3	18.4
60°-70°	5761.8	23.3
70°-80°	5073.5	20.5
80°-90°	1003.1	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°	24716.0	100.0
0°-180°	24716.0	100.0

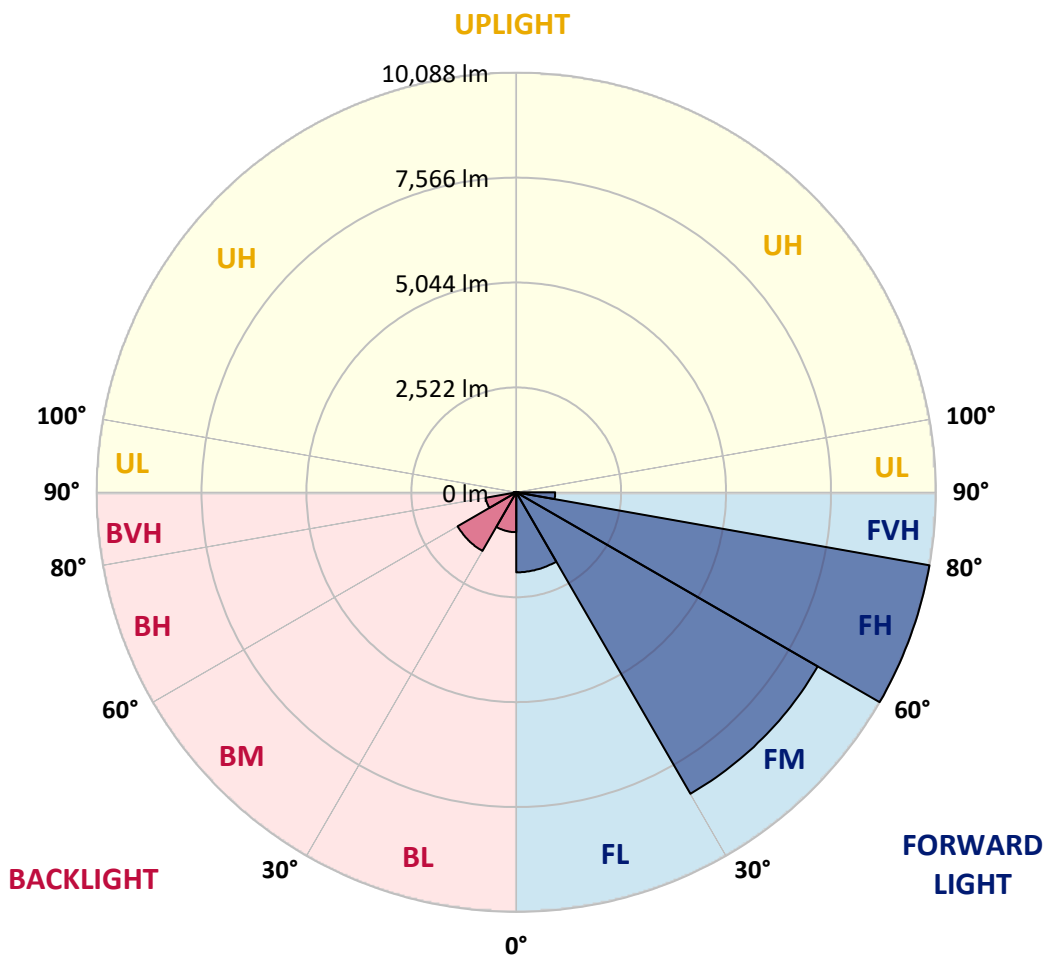


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.2	7.8			
FM (30°-60°)	8369.0	33.9			
FH (60°-80°)	10087.8	40.8			G4/12000
FVH (80°-90°)	935.2	3.8			G5
BL (0°-30°)	957.9	3.9	B2/1000		
BM (30°-60°)	1627.4	6.6	B2/2500		
BH (60°-80°)	747.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	67.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9
2.5°	4503.7	4504.6	4503.7	4496.8	4480.2	4466.3	4455.0	4438.4	4401.9	4374.0	4332.2
5°	4546.4	4541.2	4537.7	4524.6	4498.5	4482.8	4461.1	4429.7	4369.7	4313.9	4246.0
7.5°	4526.4	4520.3	4512.4	4496.8	4467.2	4454.1	4423.6	4382.7	4310.5	4237.3	4139.8
10°	4464.6	4462.8	4459.3	4455.9	4430.6	4420.2	4392.3	4348.8	4277.4	4188.6	4074.5
12.5°	4395.8	4400.1	4414.1	4432.3	4421.0	4415.8	4398.4	4368.8	4295.7	4199.9	4062.3
15°	4352.3	4364.4	4401.9	4449.8	4459.3	4457.6	4453.2	4434.1	4356.6	4250.4	4090.2
17.5°	4337.5	4357.5	4428.9	4508.1	4536.0	4542.0	4543.8	4510.7	4424.5	4312.2	4118.9
20°	4364.4	4389.7	4494.2	4603.0	4647.4	4650.9	4643.0	4585.6	4488.9	4365.3	4134.6
22.5°	4446.3	4468.9	4599.5	4722.3	4772.8	4778.0	4754.5	4667.4	4556.8	4428.0	4156.4
25°	4603.9	4631.7	4762.3	4885.1	4911.2	4912.1	4878.1	4770.2	4645.7	4515.9	4203.4
27.5°	4809.3	4837.2	4954.7	5074.9	5060.9	5053.1	5007.0	4899.0	4761.4	4636.9	4287.0
30°	5038.3	5068.8	5180.2	5265.5	5232.5	5216.8	5179.3	5040.0	4922.5	4802.4	4414.9
32.5°	5275.1	5303.0	5400.5	5458.8	5417.0	5410.1	5353.5	5226.4	5132.3	5054.8	4622.1
35°	5518.0	5538.0	5633.8	5666.9	5611.2	5609.4	5593.8	5477.1	5417.9	5454.5	4923.4
37.5°	5766.1	5771.4	5853.2	5854.9	5838.4	5845.4	5861.9	5788.8	5805.3	5919.4	5315.2
40°	5987.3	6001.2	6060.4	6078.7	6107.4	6131.8	6214.5	6166.6	6294.6	6496.6	5802.7
42.5°	6151.0	6178.0	6272.8	6319.9	6413.0	6451.3	6568.0	6612.4	6870.1	7173.1	6382.5
45°	6289.4	6331.2	6483.5	6580.2	6737.8	6804.8	6972.0	7120.8	7520.5	7907.0	6992.9
47.5°	6439.1	6492.2	6682.9	6867.5	7081.7	7157.4	7461.3	7684.1	8214.3	8645.3	7568.3
50°	6659.4	6700.3	6886.6	7176.6	7443.8	7541.3	7961.9	8281.4	8919.5	9348.8	8067.2
52.5°	6966.7	6951.1	7108.6	7515.2	7873.9	7994.1	8496.4	8916.9	9634.3	9985.2	8488.6
55°	7275.8	7249.7	7360.3	7869.6	8375.4	8501.6	9085.0	9555.1	10314.3	10558.1	8811.6
57.5°	7619.7	7570.1	7663.2	8269.2	8946.5	9097.2	9744.0	10233.3	10982.9	11021.2	9017.1
60°	7974.0	7907.0	8011.5	8764.6	9671.8	9849.4	10515.4	10895.0	11613.3	11392.1	9083.2
62.5°	8284.0	8237.0	8398.0	9317.4	10489.3	10684.3	11272.8	11598.5	12234.9	11546.2	8844.7
65°	8554.8	8562.6	8841.2	9939.0	11400.8	11608.9	12141.7	12465.6	12724.2	11454.8	8286.6
67.5°	8877.8	8922.2	9397.5	10757.4	12548.3	12776.4	13405.9	13411.1	12997.6	10918.5	7187.9
70°	9348.8	9440.2	10162.8	11892.7	14179.9	14493.3	14979.1	13966.6	12613.6	9464.6	5655.6
72.5°	9766.7	9937.3	10976.8	13191.7	16168.4	16406.0	15899.3	13646.2	11009.0	7093.0	3523.4
74°	9596.9	9808.5	11124.8	13831.6	16917.1	17031.2	15588.5	12711.1	9179.0	4912.1	2047.7
75°	9231.2	9461.1	10908.9	13825.5	16822.2	16758.6	14838.1	11642.9	7559.6	3350.2	1362.5
77.5°	7449.9	7692.8	9192.1	11849.2	13793.3	13733.2	11398.2	7810.4	3311.0	1098.7	692.1
80°	4331.4	4516.8	5706.1	7524.8	9300.9	9409.7	7496.1	3864.7	1302.5	617.3	469.3
82.5°	1924.1	2052.1	2756.4	3841.2	5612.9	5753.1	3925.6	2025.1	804.5	375.2	282.1
85°	1262.4	1357.3	1673.3	1829.2	2672.8	2768.6	1921.5	1576.7	531.1	206.3	207.2
87.5°	908.1	999.5	1243.3	1085.7	1226.7	1161.4	1045.6	1459.2	213.3	117.5	69.6
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°	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9	4354.9
2.5°	4313.9	4300.0	4268.7	4209.5	4176.4	4148.5	4102.4	4075.4	4063.2	4062.3	4067.6
5°	4206.9	4174.6	4093.7	3994.4	3915.2	3842.9	3753.3	3699.3	3661.0	3638.3	3644.4
7.5°	4082.4	4031.9	3904.8	3746.3	3619.2	3479.0	3340.6	3257.9	3193.5	3145.6	3154.3
10°	3997.0	3927.4	3741.9	3513.8	3302.3	3098.6	2907.9	2793.8	2703.3	2633.6	2638.9
12.5°	3968.3	3874.3	3617.4	3312.7	3015.8	2737.2	2488.2	2313.2	2220.1	2140.9	2147.0
15°	3972.7	3846.4	3513.0	3131.6	2758.1	2407.3	2105.2	1900.6	1774.3	1719.5	1720.4
17.5°	3976.1	3814.2	3403.3	2937.5	2503.0	2099.1	1770.9	1563.6	1444.4	1393.9	1394.7
20°	3964.8	3762.0	3267.5	2714.6	2236.6	1816.1	1498.3	1322.5	1231.9	1192.8	1192.8
22.5°	3950.0	3700.2	3114.2	2490.9	1973.7	1570.6	1303.3	1169.2	1117.0	1090.9	1090.0
25°	3957.0	3654.0	2957.5	2261.0	1731.7	1374.7	1173.6	1084.8	1050.0	1033.4	1032.6
27.5°	3994.4	3632.2	2813.0	2032.0	1520.1	1227.6	1086.5	1023.9	1001.2	990.8	990.8
30°	4062.3	3632.2	2662.4	1837.0	1344.2	1118.8	1019.5	976.8	961.2	954.2	954.2
32.5°	4180.7	3652.3	2517.0	1643.7	1204.1	1033.4	963.8	935.1	922.9	919.4	919.4
35°	4384.5	3720.2	2375.1	1460.9	1090.9	963.8	910.7	894.1	885.4	884.6	887.2
37.5°	4670.9	3858.6	2241.9	1326.0	1010.8	907.2	866.3	853.2	848.0	852.3	855.8
40°	5031.3	4046.7	2120.8	1204.1	949.9	861.9	825.4	816.6	814.0	820.1	825.4
42.5°	5466.7	4300.9	2021.6	1116.1	902.8	823.6	790.5	780.1	777.5	784.4	791.4
45°	5937.7	4574.3	1951.9	1050.8	866.3	794.9	760.1	748.7	743.5	747.0	754.8
47.5°	6366.0	4832.8	1924.1	1004.7	831.4	770.5	733.1	719.1	710.4	708.7	714.8
50°	6727.3	5025.2	1937.1	976.8	803.6	743.5	706.9	691.3	678.2	670.4	674.7
52.5°	6990.2	5146.3	1949.3	964.7	781.8	713.9	678.2	663.4	646.0	632.9	632.9
55°	7180.9	5174.1	1922.3	955.1	765.3	681.7	646.0	632.1	614.7	599.9	598.1
57.5°	7255.8	5095.8	1822.2	941.1	754.0	651.2	612.0	601.6	586.8	569.4	568.5
60°	7154.8	4853.7	1628.9	911.5	739.2	626.0	578.1	571.1	564.2	547.6	546.8
62.5°	6749.1	4322.7	1379.1	851.5	709.6	599.0	546.8	550.2	551.1	539.8	538.0
65°	6013.4	3593.1	1135.3	773.1	665.2	566.8	514.5	531.1	540.7	538.9	536.3
67.5°	4944.3	2796.4	962.0	690.4	606.8	522.4	479.7	498.9	506.7	512.8	511.1
70°	3669.7	1972.0	795.8	603.3	536.3	470.1	434.4	444.0	438.8	445.8	448.4
72.5°	2046.0	1183.2	648.6	516.3	463.2	409.2	383.9	382.2	370.9	370.9	370.9
74°	1227.6	868.0	570.3	462.3	418.8	369.1	347.4	339.5	329.1	330.0	329.1
75°	987.3	746.1	523.2	426.6	387.4	345.6	323.9	313.4	305.6	305.6	304.7
77.5°	623.4	566.8	421.4	339.5	309.9	284.7	269.9	256.0	256.0	255.1	254.2
80°	471.0	451.0	328.2	256.8	237.7	218.5	208.9	202.9	202.9	205.5	204.6
82.5°	323.0	339.5	230.7	179.3	169.8	155.8	154.1	155.0	152.4	148.9	148.0
85°	235.9	255.1	155.8	113.2	103.6	94.9	101.9	105.3	101.0	93.2	89.7
87.5°	90.5	167.2	83.6	47.0	43.5	37.4	43.5	45.3	48.8	38.3	39.2
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)