

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: P319639

Luminaire Tested: **GAN-SA5B-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26013 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

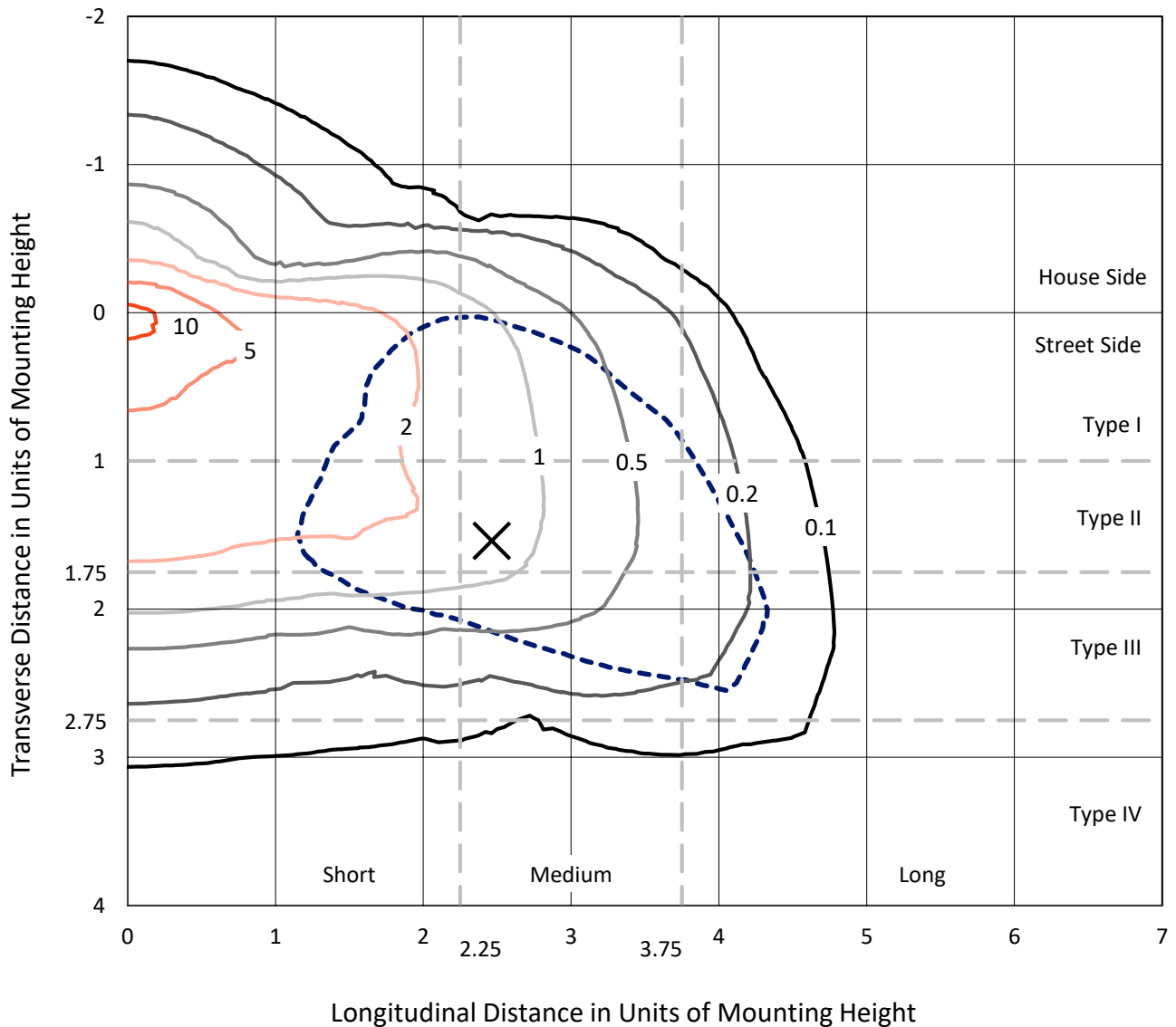
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

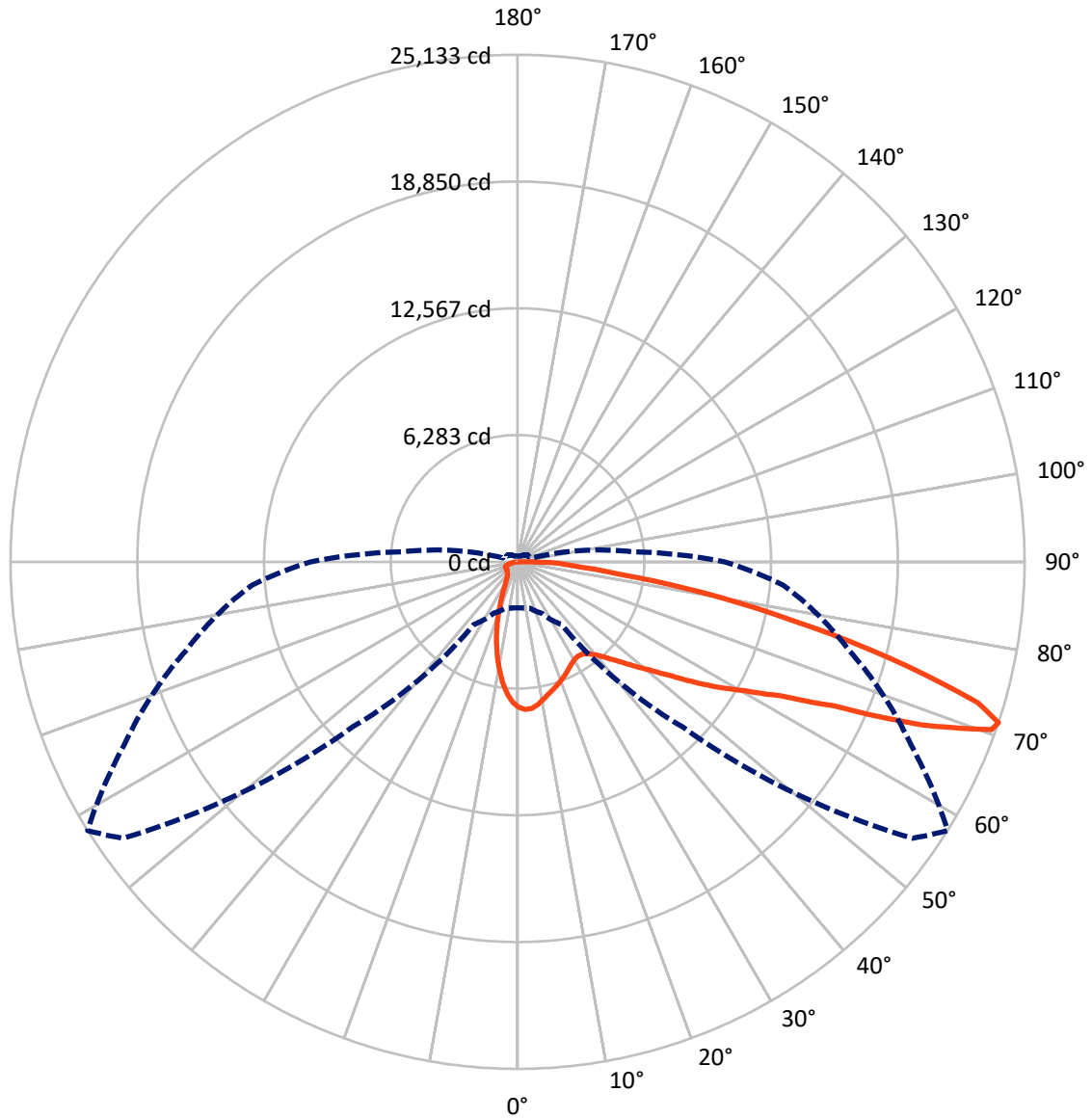
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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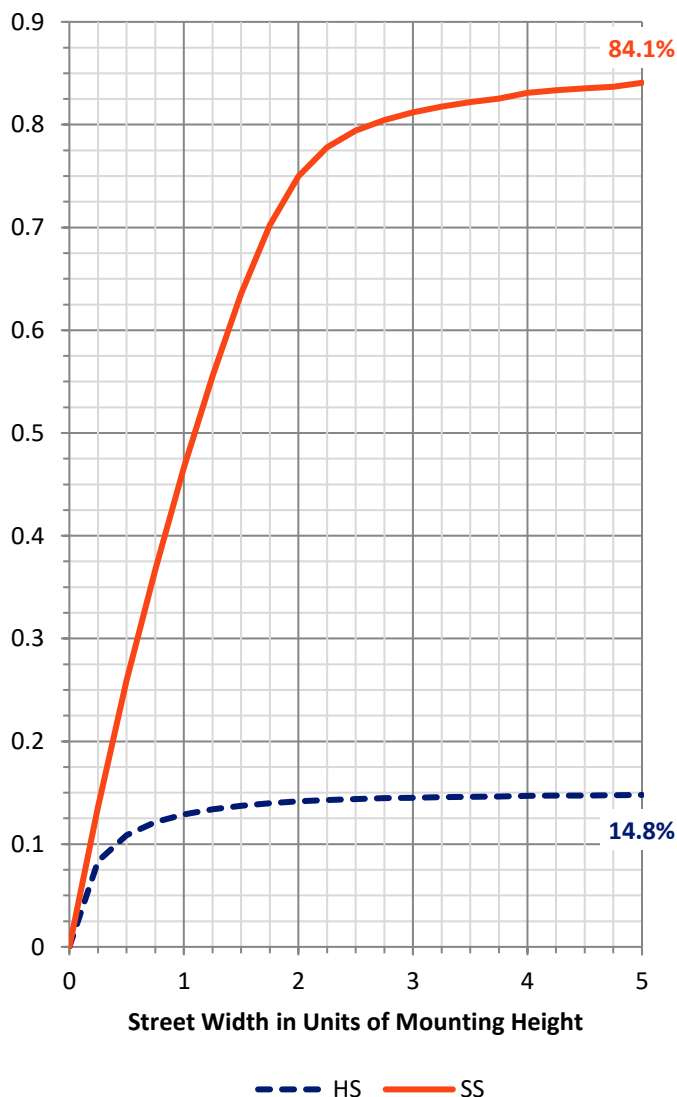
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3889.1	0.0	3889.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	22123.9	0.0	22123.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	26013.0	0.0	26013.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.8	2.4
10°-20°	1382.6	5.3
20°-30°	1757.1	6.8
30°-40°	2238.2	8.6
40°-50°	3173.9	12.2
50°-60°	4911.8	18.9
60°-70°	6686.8	25.7
70°-80°	4460.9	17.1
80°-90°	779.9	3.0
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°	26013.0	100.0
0°-180°	26013.0	100.0

Coefficient of Utilization

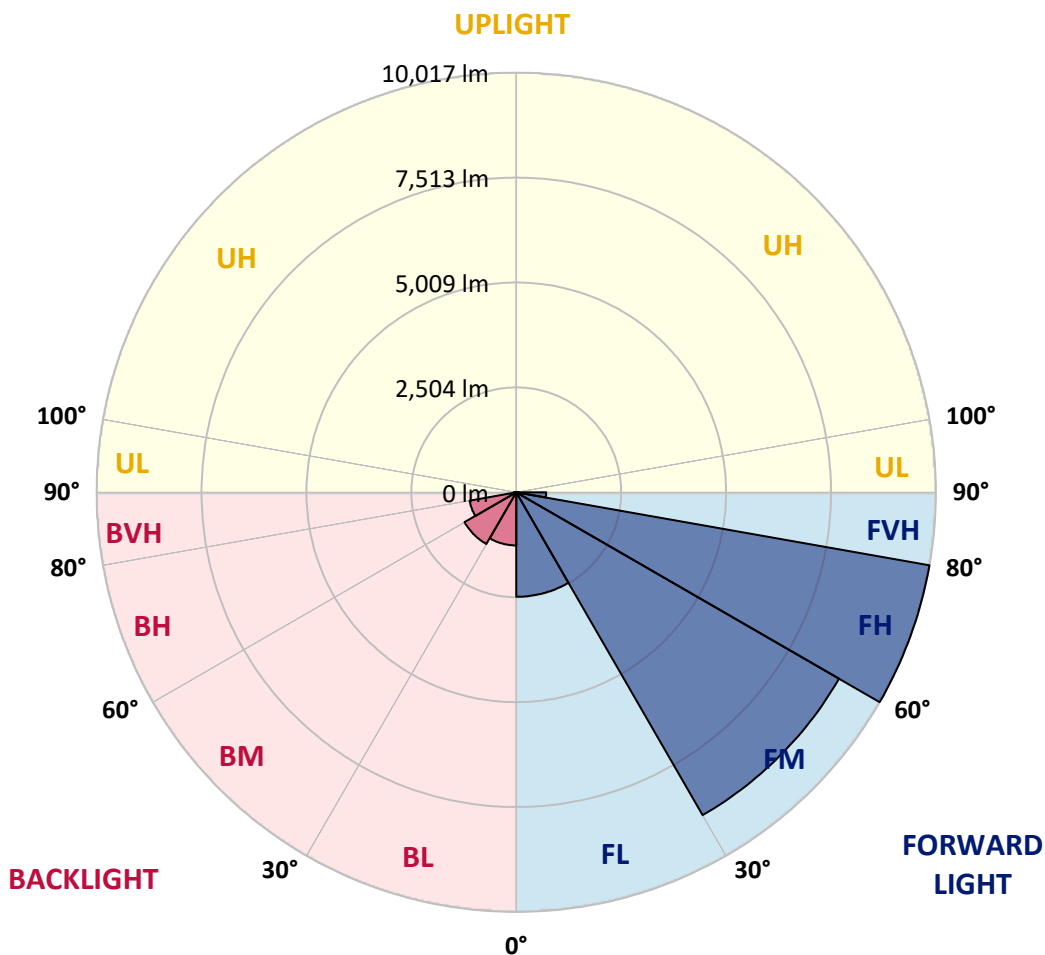


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.8	9.6			
FM (30°-60°)	8897.7	34.2			
FH (60°-80°)	10017.3	38.5			G4/12000
FVH (80°-90°)	715.1	2.7			G4/750
BL (0°-30°)	1267.7	4.9	B3/2500		
BM (30°-60°)	1426.2	5.5	B2/2500		
BH (60°-80°)	1130.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3
2.5°	7398.5	7388.6	7392.2	7384.9	7367.7	7350.5	7325.1	7329.7	7294.3	7241.8	7176.5
5°	7259.0	7255.4	7282.5	7298.0	7310.6	7300.7	7293.4	7302.5	7250.8	7178.3	7065.1
7.5°	6966.3	6926.4	6960.9	7012.5	7061.5	7098.6	7147.5	7153.9	7121.3	7045.1	6896.5
10°	6550.4	6512.3	6563.1	6643.7	6741.6	6830.4	6929.2	6947.3	6953.6	6884.8	6704.4
12.5°	6119.1	6090.1	6140.8	6254.1	6416.3	6553.1	6710.8	6738.0	6794.1	6747.9	6526.8
15°	5733.1	5722.2	5783.8	5895.3	6081.9	6291.2	6518.7	6568.5	6663.7	6648.3	6388.2
17.5°	5399.6	5396.9	5444.0	5560.9	5767.5	6032.1	6327.5	6411.8	6553.1	6571.2	6274.0
20°	5151.3	5145.9	5178.5	5264.6	5477.5	5777.5	6120.9	6236.9	6440.8	6504.2	6156.2
22.5°	5018.1	5017.2	5018.1	5058.9	5232.9	5512.0	5919.7	6061.1	6331.1	6450.7	6025.7
25°	4995.5	4992.8	4972.8	4968.3	5067.1	5290.0	5720.4	5876.2	6226.9	6413.6	5901.6
27.5°	5054.4	5058.0	5031.7	4989.1	5009.1	5144.1	5547.3	5714.0	6143.5	6406.3	5815.5
30°	5176.7	5174.9	5152.2	5107.8	5068.9	5089.7	5424.1	5590.8	6087.4	6438.0	5756.6
32.5°	5311.7	5321.7	5317.2	5292.7	5234.7	5151.3	5386.9	5550.0	6071.1	6514.2	5731.3
35°	5473.9	5484.8	5517.4	5536.4	5468.5	5334.4	5466.7	5608.0	6118.2	6657.3	5772.0
37.5°	5628.0	5656.0	5747.6	5828.2	5770.2	5620.7	5678.7	5779.3	6264.1	6882.9	5881.7
40°	5805.6	5830.0	5979.5	6150.8	6141.7	5986.8	6020.3	6087.4	6521.4	7206.4	6080.1
42.5°	5980.4	6029.4	6245.9	6488.8	6558.6	6421.7	6475.2	6510.5	6883.9	7635.0	6426.3
45°	6213.3	6265.9	6566.7	6859.4	7022.5	6945.5	7030.6	7044.2	7339.6	8218.6	6929.2
47.5°	6565.8	6625.6	6976.3	7283.5	7532.6	7540.8	7681.2	7675.8	7908.7	8886.4	7562.5
50°	7114.9	7201.0	7488.2	7775.5	8078.1	8246.7	8434.2	8408.0	8591.0	9597.7	8292.0
52.5°	7834.4	7874.2	8087.2	8299.2	8675.3	9053.1	9322.2	9298.7	9364.8	10328.9	9120.2
55°	8580.1	8610.0	8697.9	8813.9	9319.5	9935.7	10504.7	10467.6	10300.0	11088.3	9938.4
57.5°	9250.7	9311.4	9372.1	9420.1	9968.3	10858.1	11714.4	11717.1	11314.8	11907.4	10783.8
60°	9354.9	9408.3	9809.7	10188.5	11078.3	12088.7	13009.3	12982.1	12365.0	12796.3	11726.2
62.5°	8269.3	8389.8	9060.4	10068.0	12147.5	14339.5	14661.1	14627.6	13620.9	13891.8	12823.5
65°	5926.1	6062.9	6872.1	8386.2	11629.2	16819.5	17642.3	17191.1	15333.5	15239.3	14108.4
67.5°	3418.8	3451.4	3802.1	5018.1	8854.7	16949.1	22190.2	21558.6	17993.0	16767.9	14737.3
70°	2528.1	2527.2	2610.6	3088.1	4791.6	13832.9	24353.1	24919.4	20792.9	17270.8	13848.4
71°	2286.2	2288.9	2382.2	2810.8	3794.9	11578.5	23893.7	25133.3	21530.5	17022.5	13205.0
72.5°	1955.4	1964.5	2094.1	2520.8	3192.3	7984.8	21914.7	23850.2	21880.3	16410.0	12198.3
75°	1483.3	1504.2	1683.6	2124.9	2917.7	4049.5	16083.8	19045.0	19437.3	14479.9	9064.0
77.5°	1058.4	1081.9	1284.9	1786.9	2773.7	3051.8	10771.1	13891.8	14304.1	9279.7	4088.4
80°	668.7	696.8	849.9	1421.7	2606.0	2897.8	6768.8	9337.6	7799.9	2969.4	1040.2
82.5°	392.4	414.1	527.4	928.8	2128.5	2790.9	3982.4	5175.8	3035.5	897.1	473.0
85°	227.4	237.4	328.9	591.7	1545.9	2634.1	2925.9	2893.3	1317.5	438.6	223.8
87.5°	106.0	117.8	194.8	309.0	858.1	1909.2	2312.4	1998.0	819.1	205.7	105.1
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°	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3	7207.3
2.5°	7144.8	7129.4	7065.1	7008.0	6948.2	6870.3	6784.2	6773.3	6720.7	6730.7	6712.6
5°	7003.5	6964.5	6809.5	6669.1	6503.3	6354.7	6193.4	6119.1	6012.2	6004.9	5977.7
7.5°	6801.4	6728.9	6488.8	6222.4	5956.0	5702.3	5451.3	5286.3	5117.8	5046.2	5039.9
10°	6574.0	6450.7	6097.3	5703.2	5319.0	4948.4	4589.5	4324.0	4084.8	3971.6	3967.0
12.5°	6358.3	6176.2	5691.4	5155.0	4629.4	4149.2	3657.1	3308.3	3008.3	2907.8	2865.2
15°	6175.3	5918.8	5296.3	4610.4	3972.5	3305.6	2745.6	2378.6	2101.3	2005.3	1987.1
17.5°	5997.7	5667.8	4891.3	4060.4	3289.2	2556.2	1995.3	1722.5	1574.8	1535.9	1535.0
20°	5821.0	5409.6	4468.1	3497.7	2628.7	1911.9	1534.1	1411.7	1361.9	1357.4	1350.1
22.5°	5620.7	5135.9	4023.2	2933.1	2051.5	1503.3	1303.9	1255.0	1248.6	1265.0	1265.0
25°	5433.1	4864.1	3572.0	2380.4	1595.7	1254.1	1164.4	1154.4	1171.6	1200.6	1203.3
27.5°	5258.3	4602.2	3131.6	1889.3	1278.5	1104.6	1067.4	1079.2	1110.0	1143.5	1144.4
30°	5114.2	4354.8	2703.9	1488.8	1080.1	993.1	986.8	1010.3	1043.9	1070.1	1076.5
32.5°	5002.7	4143.7	2290.7	1197.0	950.5	909.8	915.2	935.1	956.0	970.5	980.4
35°	4951.1	3962.5	1909.2	1009.4	868.1	845.4	852.7	863.5	872.6	883.5	891.6
37.5°	4960.1	3822.0	1568.5	892.5	812.8	801.0	801.0	801.0	801.0	806.5	807.4
40°	5044.4	3741.4	1291.2	818.2	775.6	763.0	753.0	743.9	736.7	740.3	738.5
42.5°	5260.1	3734.2	1088.3	771.1	745.7	724.9	705.0	692.3	683.2	686.8	688.7
45°	5626.1	3824.8	951.4	737.6	717.7	685.9	660.6	647.0	640.6	652.4	654.2
47.5°	6100.1	4022.3	868.1	713.1	691.4	649.7	622.5	609.8	611.6	628.9	633.4
50°	6710.8	4343.1	828.2	697.7	673.3	618.9	590.8	579.9	585.4	609.8	615.3
52.5°	7381.3	4805.2	832.7	693.2	661.5	596.2	566.3	553.6	562.7	585.4	589.9
55°	8155.1	5360.7	907.9	699.5	644.3	581.7	546.4	524.6	531.9	552.7	556.4
57.5°	9015.1	5996.8	1059.3	697.7	622.5	568.1	525.6	492.9	498.4	511.1	514.7
60°	9910.3	6765.1	1294.0	703.2	612.5	551.8	497.5	456.7	454.9	465.7	467.6
62.5°	10985.0	7654.1	1562.2	706.8	618.9	531.0	460.3	420.4	415.0	417.7	419.5
65°	12092.3	8297.4	1461.6	692.3	638.8	513.8	427.7	385.1	375.1	373.3	374.2
67.5°	12126.7	7607.8	1024.8	663.3	647.0	504.7	403.2	355.2	338.9	332.5	331.6
70°	10875.3	6180.7	798.3	632.5	614.4	490.2	380.6	330.7	306.3	296.3	295.4
71°	10264.6	5689.6	756.6	617.1	589.9	475.7	370.6	319.9	294.5	283.6	281.8
72.5°	9306.8	5100.6	705.9	592.6	542.8	438.6	351.6	304.5	278.2	265.5	262.8
75°	6679.1	3335.5	606.2	528.3	449.4	349.8	308.1	273.7	251.0	235.6	233.8
77.5°	2573.4	1327.5	458.5	439.5	344.3	273.7	253.7	236.5	220.2	204.8	203.9
80°	795.6	593.5	334.4	330.7	249.2	203.9	197.5	193.0	186.7	170.4	166.7
82.5°	425.0	340.7	230.2	213.8	163.1	135.9	143.2	145.0	145.9	128.7	126.9
85°	203.0	180.3	129.6	121.4	95.1	76.1	87.9	95.1	96.0	78.8	73.4
87.5°	97.0	94.2	60.7	46.2	35.3	25.4	30.8	38.1	41.7	29.9	26.3
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)