

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: P319401

Luminaire Tested: **GAN-SA7B-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39597 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

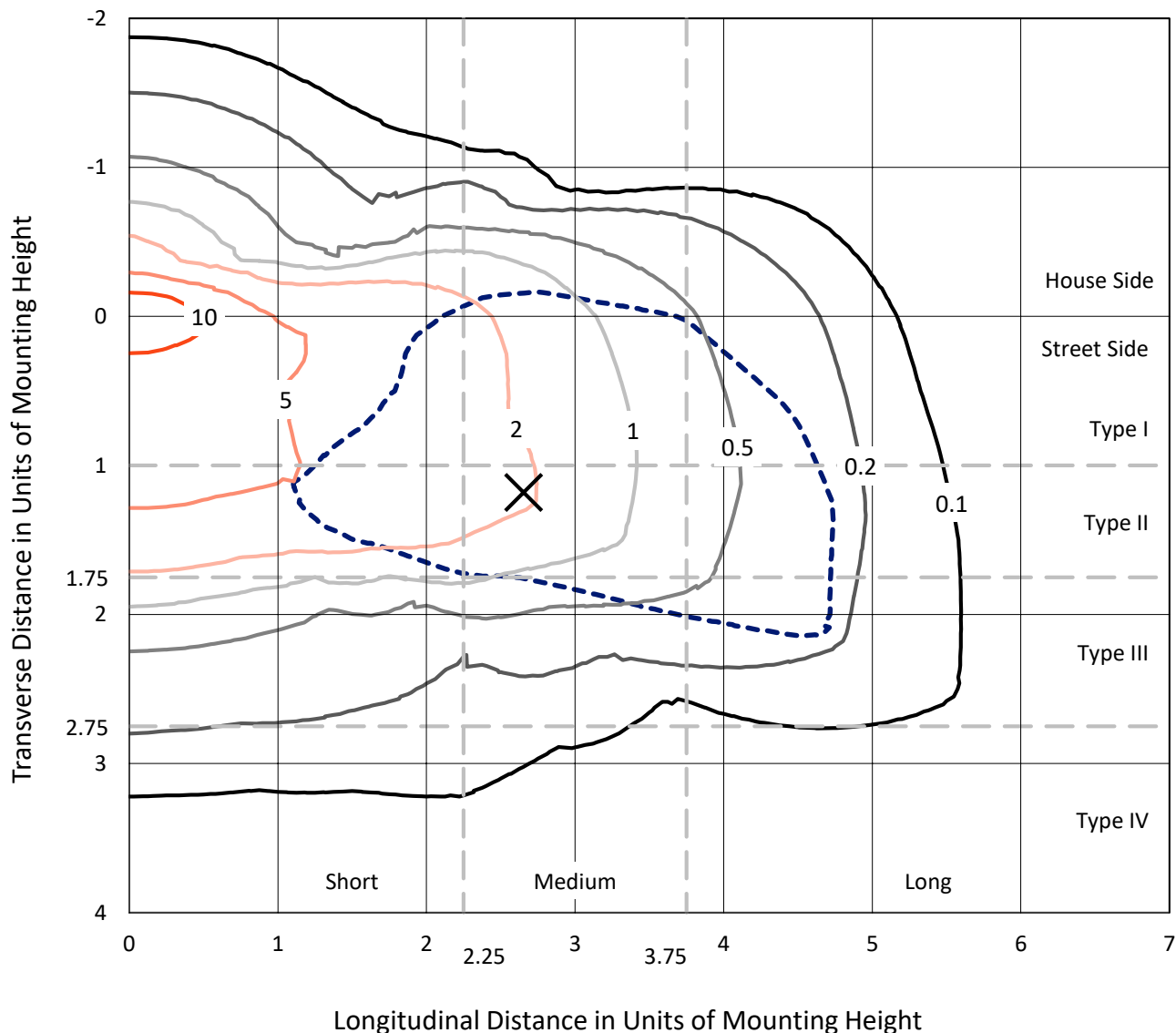
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

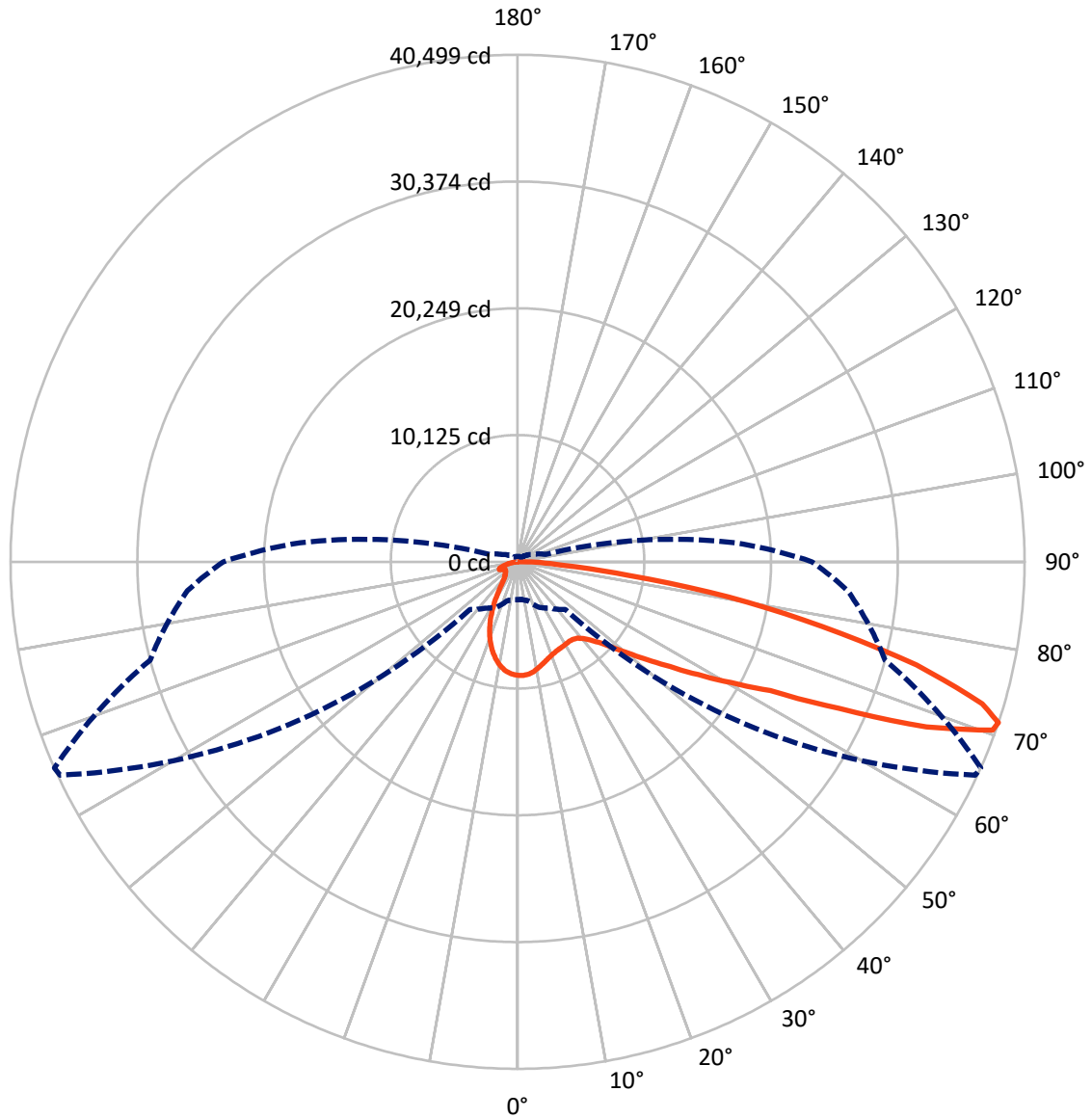
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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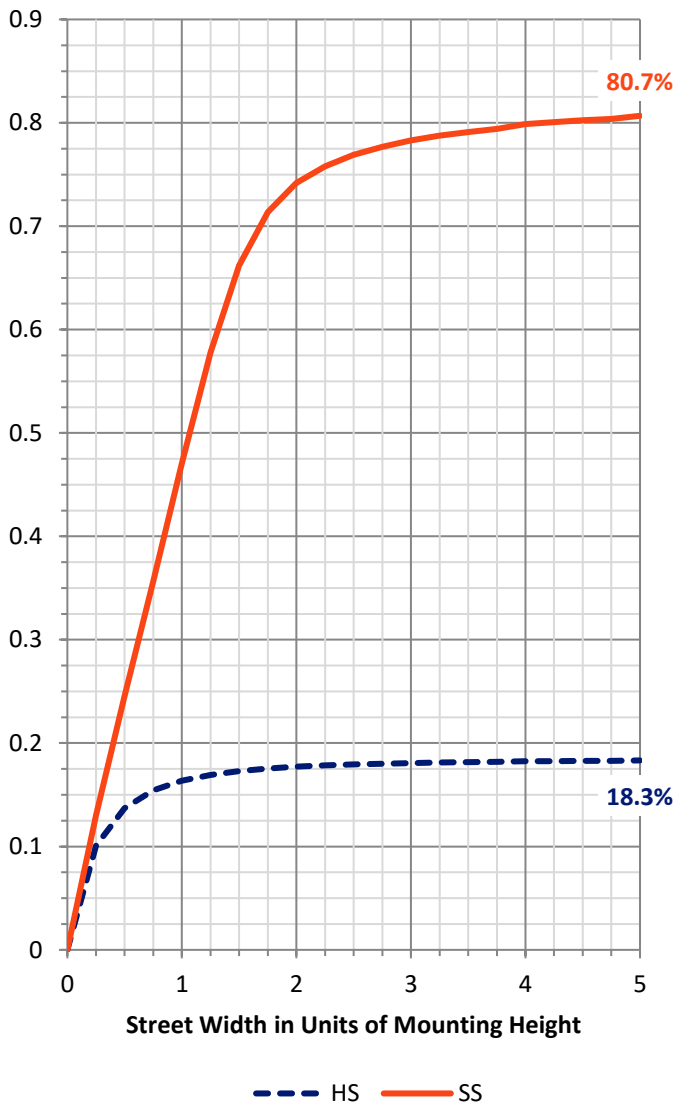
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7338.4	0.0	7338.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	32258.6	0.0	32258.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	39597.0	0.0	39597.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.5	2.0
10°-20°	1915.0	4.8
20°-30°	2572.4	6.5
30°-40°	3383.9	8.5
40°-50°	4922.7	12.4
50°-60°	7689.8	19.4
60°-70°	9632.8	24.3
70°-80°	7347.6	18.6
80°-90°	1334.3	3.4
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°	39597.0	100.0
0°-180°	39597.0	100.0

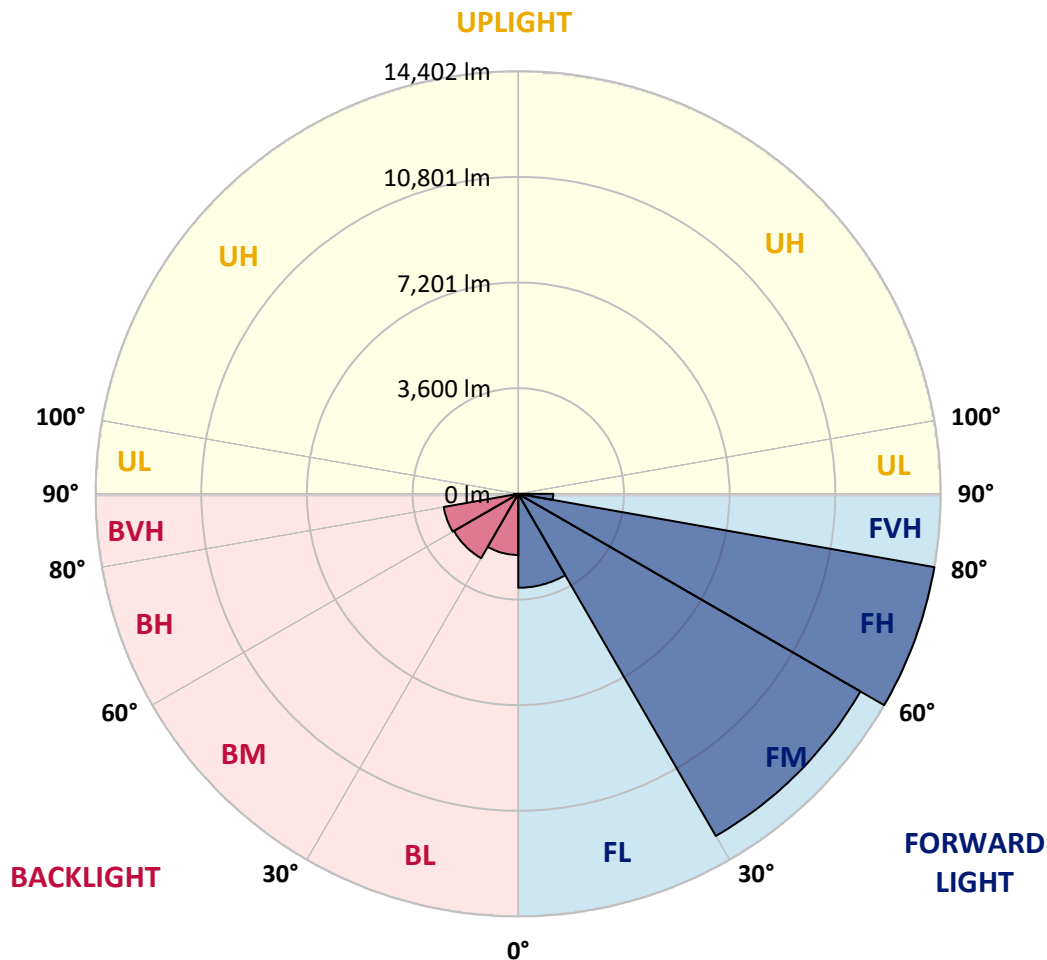


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3202.0	8.1			
FM (30°-60°)	13465.0	34.0			
FH (60°-80°)	14401.8	36.4			G5
FVH (80°-90°)	1189.8	3.0			G5
BL (0°-30°)	2083.9	5.3	B3/2500		
BM (30°-60°)	2531.5	6.4	B3/5000		
BH (60°-80°)	2578.5	6.5	B4/5000		G4/5000
BVH (80°-90°)	144.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9
2.5°	8902.7	8889.1	8930.1	8972.5	8988.9	9016.2	9057.2	9080.5	9079.1	9083.2	9069.5
5°	8312.1	8294.4	8376.4	8443.4	8571.9	8716.8	8893.2	9019.0	9021.7	9092.8	9111.9
7.5°	7753.0	7740.7	7835.0	7943.0	8092.0	8313.5	8599.2	8869.9	8886.3	9079.1	9146.1
10°	7304.6	7301.8	7393.4	7511.0	7684.6	7932.1	8260.2	8656.7	8681.3	9013.5	9151.6
12.5°	6954.6	6960.1	7039.4	7173.3	7356.5	7614.9	7970.4	8417.4	8457.1	8909.6	9120.1
15°	6696.2	6718.1	6782.3	6917.7	7098.1	7360.6	7725.7	8195.9	8256.1	8793.4	9102.4
17.5°	6548.6	6573.2	6618.3	6730.4	6899.9	7152.8	7498.7	8014.1	8068.8	8704.5	9103.7
20°	6504.8	6525.3	6551.3	6619.6	6763.2	6992.9	7319.6	7850.1	7908.8	8633.4	9117.4
22.5°	6590.9	6606.0	6608.7	6603.2	6690.7	6878.0	7189.7	7729.8	7792.6	8586.9	9127.0
25°	6775.5	6796.0	6781.0	6730.4	6701.7	6816.5	7122.7	7650.5	7713.3	8552.8	9107.8
27.5°	7053.0	7055.8	7043.5	6977.8	6842.5	6823.3	7102.2	7604.0	7664.1	8513.1	9068.2
30°	7430.4	7448.1	7426.2	7337.4	7115.9	6932.7	7126.8	7558.9	7613.5	8462.5	9003.9
32.5°	7871.9	7915.7	7914.3	7821.3	7504.2	7177.4	7228.0	7531.5	7573.9	8409.2	8926.0
35°	8329.9	8390.1	8502.2	8462.5	8070.2	7564.3	7422.1	7575.3	7604.0	8402.4	8871.3
37.5°	8805.7	8865.8	9096.9	9203.5	8744.2	8118.0	7728.4	7729.8	7743.4	8485.8	8867.2
40°	9303.3	9367.6	9714.8	9992.4	9617.8	8819.4	8221.9	8052.4	8037.4	8690.8	8947.9
42.5°	10000.6	10058.0	10474.9	10829.0	10587.1	9717.6	8904.1	8550.0	8518.6	9092.8	9206.3
45°	10882.4	10931.6	11374.5	11753.2	11628.8	10742.9	9761.3	9235.0	9229.5	9762.7	9729.9
47.5°	11930.9	11969.2	12367.1	12733.4	12778.6	11922.7	10838.6	10291.8	10202.9	10681.4	10540.6
50°	13023.3	13065.7	13336.4	13730.1	14065.0	13501.8	12224.9	11586.4	11467.5	11894.0	11689.0
52.5°	13746.5	13802.5	14037.7	14536.7	15511.5	15232.6	13864.1	13155.9	12975.4	13363.7	13206.5
55°	13423.8	13549.6	13909.2	14708.9	16668.0	17876.6	15886.0	14986.5	14782.8	15105.4	15012.5
57.5°	11956.9	12129.2	12620.0	13854.5	16830.7	20206.2	18943.0	17142.4	16998.9	16905.9	16948.3
60°	9276.0	9441.4	10049.8	11658.9	15697.4	21906.9	23543.3	19800.1	19592.3	18713.3	18751.6
62.5°	6565.0	6481.6	6898.5	8075.6	12755.3	22106.5	28778.1	23354.7	22671.1	20621.8	20453.6
65°	5006.4	4987.3	5174.6	5549.2	7725.7	19718.1	31896.5	29329.0	28261.3	22866.6	22470.1
67.5°	4113.7	4079.5	4264.1	4809.6	4975.0	12721.1	31964.9	36260.4	35211.8	25661.0	24802.5
70°	3382.3	3344.0	3516.3	4220.3	4597.7	6451.5	26902.4	40319.4	40263.3	29199.2	26563.3
71°	3032.3	3005.0	3211.4	3993.4	4517.0	5376.9	23227.5	40330.3	40498.5	30396.8	26459.4
72.5°	2469.0	2478.6	2697.3	3554.5	4456.8	4748.0	17071.3	38450.5	38806.0	31538.3	25514.7
75°	1640.6	1648.8	1935.9	2734.3	4321.5	4645.5	9382.6	32264.3	32917.8	30854.8	23282.2
77.5°	1101.9	1099.2	1294.7	1875.7	3765.1	4645.5	5501.3	24131.2	24849.0	24550.9	17949.0
80°	758.8	753.3	891.4	1294.7	2850.5	4701.6	4253.1	16911.4	17128.8	13258.4	7295.0
82.5°	464.8	468.9	582.4	914.6	1940.0	4231.3	4015.3	9221.3	8984.8	3718.6	1822.4
85°	266.6	265.2	371.9	619.3	1245.5	3570.9	3915.5	3968.8	3640.7	1119.7	659.0
87.5°	95.7	102.5	199.6	343.1	713.6	2486.8	3322.1	2064.4	1860.7	505.8	298.0
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°	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9	9070.9
2.5°	9060.0	9068.2	9058.6	9003.9	8957.4	8882.2	8839.9	8781.1	8763.3	8755.1	8777.0
5°	9094.1	9096.9	9016.2	8872.7	8711.4	8521.3	8384.6	8216.4	8137.2	8103.0	8124.9
7.5°	9125.6	9113.3	8936.9	8662.1	8364.1	8033.3	7739.3	7470.0	7312.8	7248.5	7254.0
10°	9129.7	9077.7	8794.7	8369.6	7907.5	7422.1	6971.0	6555.4	6292.9	6122.0	6174.0
12.5°	9087.3	8999.8	8585.6	7990.9	7349.7	6688.0	6078.3	5454.8	5080.3	4906.6	4912.1
15°	9054.5	8895.9	8328.6	7545.2	6683.9	5807.6	4975.0	4242.2	3843.0	3665.3	3581.9
17.5°	9027.2	8783.8	8030.5	7043.5	5897.8	4786.3	3785.6	3132.1	2913.4	2861.4	2839.5
20°	8988.9	8664.9	7698.3	6462.4	5002.3	3643.4	2764.3	2441.7	2443.1	2503.2	2511.4
22.5°	8935.6	8529.5	7344.2	5810.3	4041.2	2653.6	2166.9	2073.9	2168.3	2283.1	2303.6
25°	8856.3	8369.6	6950.5	5089.8	3081.5	2039.8	1851.1	1847.0	1961.8	2082.1	2099.9
27.5°	8744.2	8160.4	6513.0	4316.0	2270.8	1733.5	1658.3	1687.0	1771.8	1859.3	1866.1
30°	8593.8	7917.0	6030.4	3499.9	1780.0	1543.5	1535.3	1561.3	1613.2	1674.7	1680.2
32.5°	8428.4	7669.6	5515.0	2709.7	1524.3	1441.0	1449.2	1461.5	1486.1	1510.7	1516.1
35°	8278.0	7416.7	4987.3	2058.9	1402.7	1374.0	1368.5	1365.8	1368.5	1360.3	1361.7
37.5°	8180.9	7207.5	4437.7	1639.2	1333.0	1315.2	1298.8	1278.3	1255.0	1241.4	1244.1
40°	8145.4	7051.7	3881.3	1416.3	1275.5	1263.2	1231.8	1188.0	1160.7	1152.5	1152.5
42.5°	8241.1	6971.0	3344.0	1304.2	1227.7	1207.2	1155.2	1104.6	1084.1	1082.8	1081.4
45°	8533.6	7003.8	2832.7	1242.7	1183.9	1144.3	1075.9	1033.6	1019.9	1022.6	1021.2
47.5°	9058.6	7210.2	2395.2	1201.7	1140.2	1088.2	1011.7	977.5	961.1	961.1	962.5
50°	9951.3	7692.8	2046.6	1167.5	1103.3	1036.3	965.2	922.8	900.9	899.6	899.6
52.5°	11251.5	8556.9	1829.2	1138.8	1062.3	989.8	918.7	865.4	839.4	833.9	831.2
55°	12881.1	9795.5	1769.1	1119.7	1007.6	939.2	862.7	809.3	780.6	768.3	767.0
57.5°	14703.5	11302.1	1888.0	1096.4	951.5	879.1	801.1	750.6	720.5	705.4	704.1
60°	16547.7	12946.7	2373.3	1063.6	905.0	813.4	738.3	691.8	661.7	645.3	642.6
62.5°	18394.7	14680.2	3364.5	1060.9	872.2	750.6	674.0	634.3	605.6	587.9	583.8
65°	20478.2	16577.8	4491.0	1133.4	861.3	693.1	608.4	576.9	552.3	535.9	534.5
67.5°	22870.7	18720.1	4383.0	1282.4	898.2	641.2	546.9	522.2	504.5	490.8	489.4
70°	23993.1	18385.2	2724.7	1387.6	950.2	590.6	488.1	470.3	456.6	447.1	443.0
71°	23522.8	17456.9	2284.5	1375.3	944.7	568.7	464.8	451.2	437.5	429.3	425.2
72.5°	22240.5	15920.2	1905.8	1279.6	883.2	529.1	434.7	421.1	408.8	399.2	396.5
75°	19957.4	14218.1	1525.7	1022.6	704.1	447.1	381.4	366.4	356.8	351.4	345.9
77.5°	14670.7	10146.8	1179.8	808.0	518.1	365.0	325.4	314.4	304.9	296.7	292.6
80°	5620.3	3930.5	794.3	602.9	380.1	288.5	262.5	257.0	247.5	242.0	242.0
82.5°	1513.4	1174.4	423.8	365.0	254.3	210.5	201.0	198.2	190.0	179.1	180.5
85°	612.5	518.1	237.9	201.0	155.9	124.4	135.3	136.7	127.1	113.5	114.8
87.5°	269.3	220.1	132.6	88.9	68.4	47.8	61.5	61.5	56.1	46.5	42.4
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)