

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: P319368

Luminaire Tested: **GAN-SA4C-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319368
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-SA4C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA 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: 27951 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

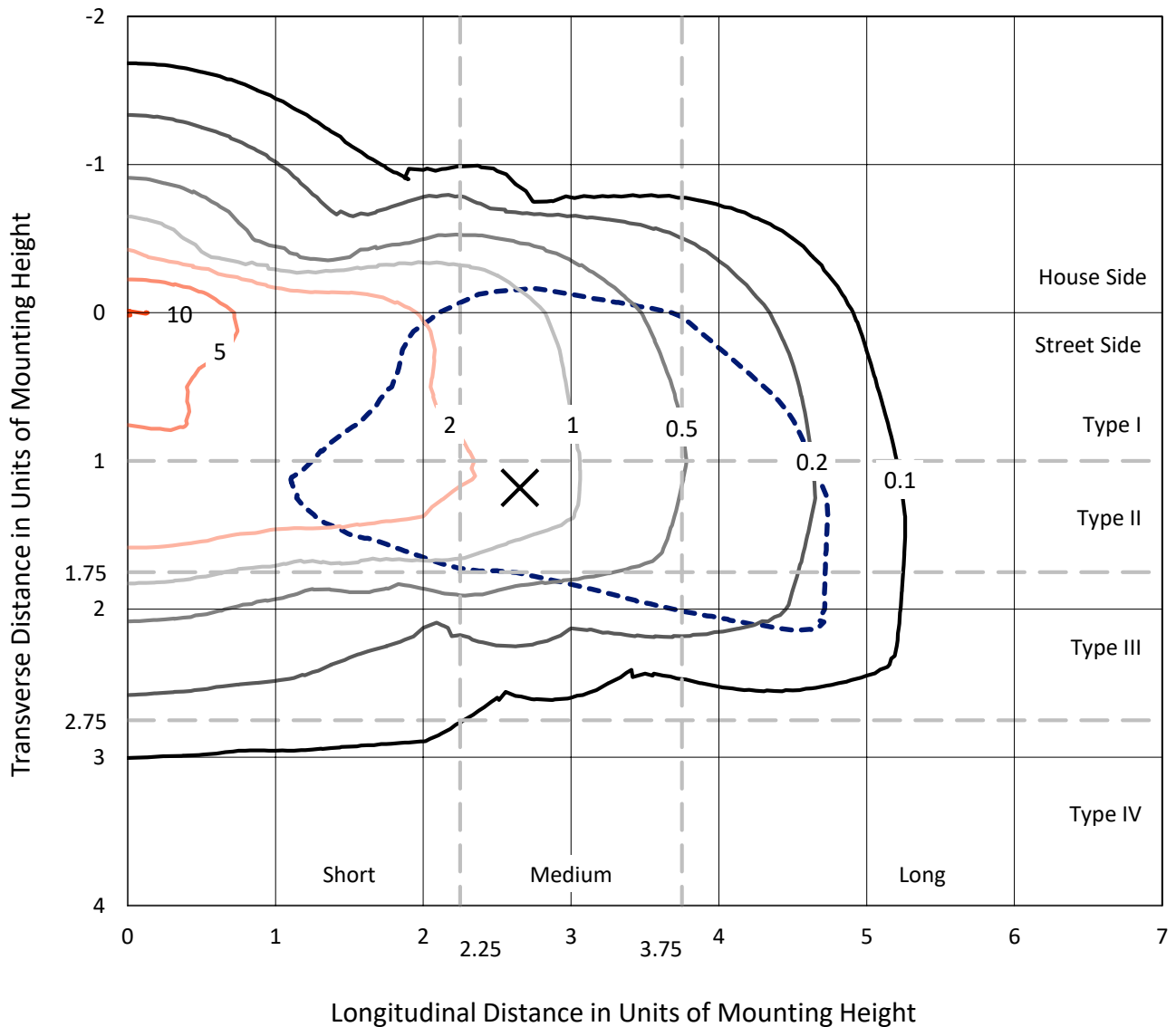
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

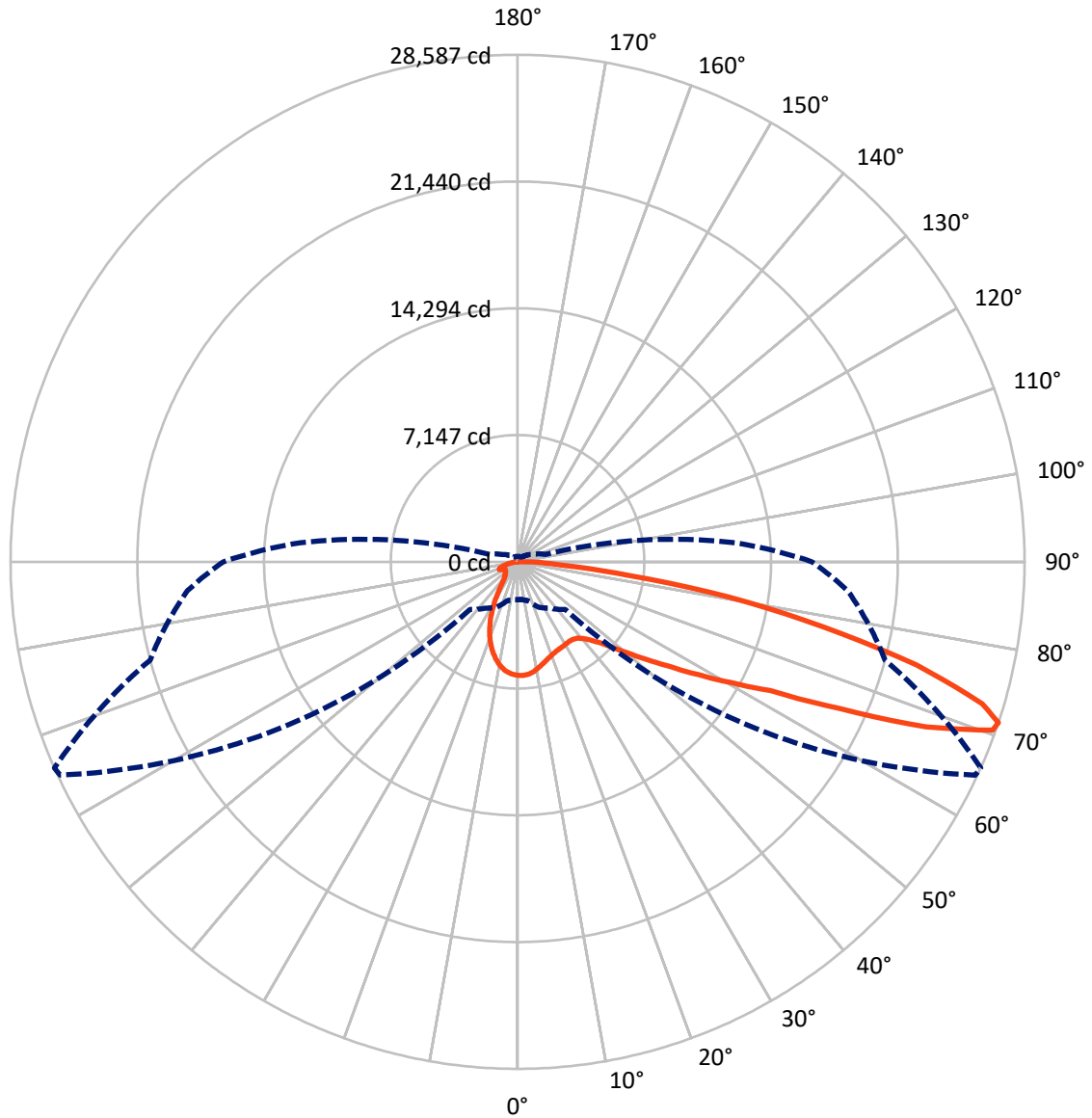
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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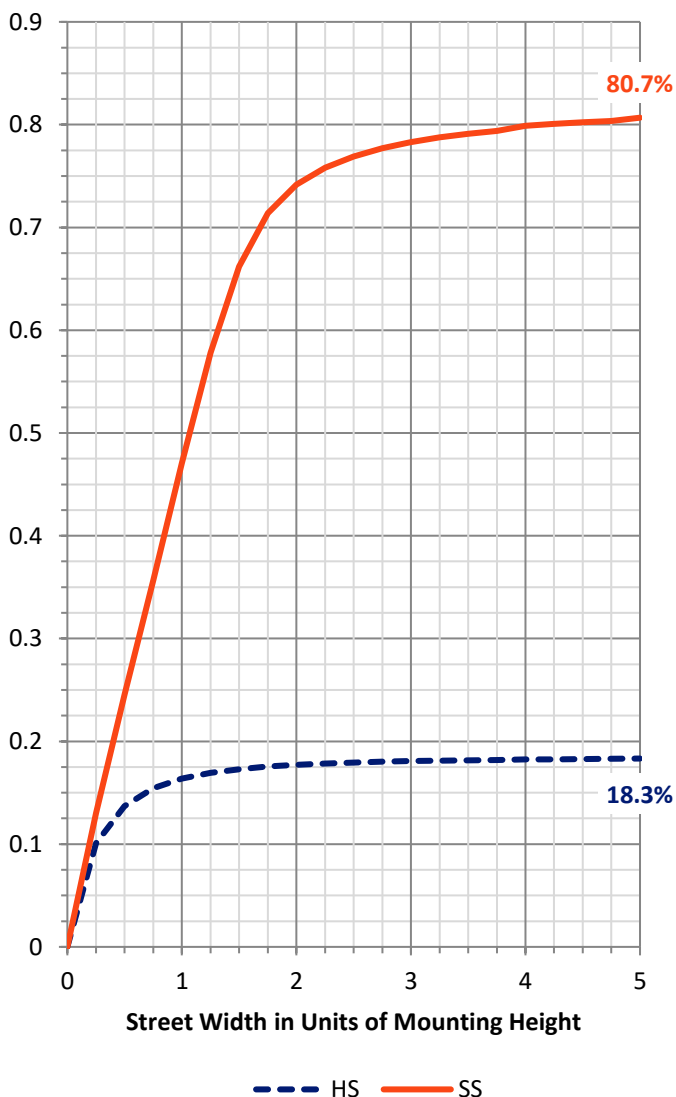
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5180.1	0.0	5180.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	22770.9	0.0	22770.9
	% Fixture	81.5	0.0	81.5
Total	Lumens	27951.0	0.0	27951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.6	2.0
10°-20°	1351.8	4.8
20°-30°	1815.8	6.5
30°-40°	2388.7	8.5
40°-50°	3474.9	12.4
50°-60°	5428.2	19.4
60°-70°	6799.6	24.3
70°-80°	5186.6	18.6
80°-90°	941.8	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°	27951.0	100.0
0°-180°	27951.0	100.0

Coefficient of Utilization

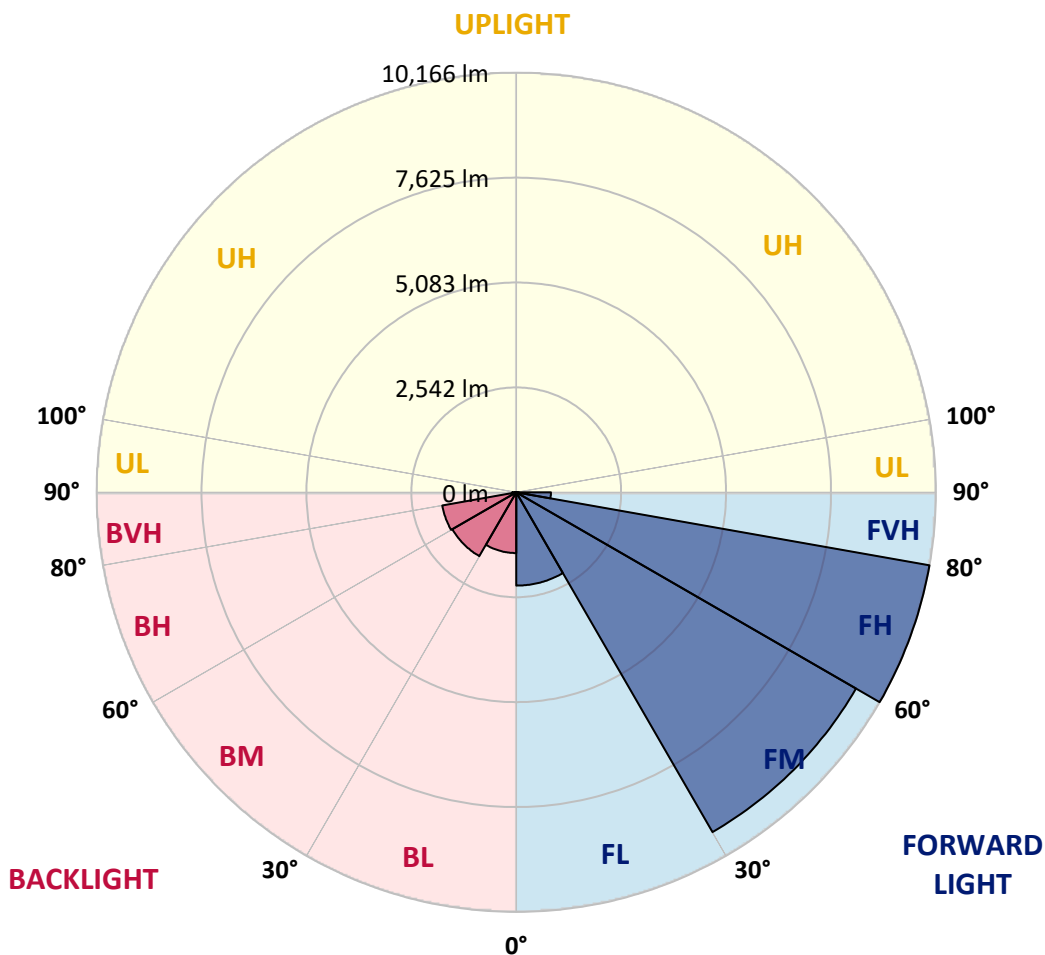


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.2	8.1			
FM (30°-60°)	9504.7	34.0			
FH (60°-80°)	10166.1	36.4			G4/12000
FVH (80°-90°)	839.9	3.0			G5
BL (0°-30°)	1471.0	5.3	B3/2500		
BM (30°-60°)	1787.0	6.4	B2/2500		
BH (60°-80°)	1820.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	102.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0
2.5°	6284.3	6274.7	6303.6	6333.6	6345.1	6364.4	6393.4	6409.8	6408.8	6411.7	6402.1
5°	5867.4	5854.9	5912.8	5960.1	6050.8	6153.1	6277.6	6366.4	6368.3	6418.5	6432.0
7.5°	5472.7	5464.1	5530.6	5606.9	5712.1	5868.4	6070.1	6261.2	6272.8	6408.8	6456.1
10°	5156.2	5154.3	5218.9	5301.9	5424.5	5599.2	5830.8	6110.6	6128.0	6362.5	6460.0
12.5°	4909.2	4913.0	4969.0	5063.6	5192.9	5375.3	5626.2	5941.7	5969.7	6289.2	6437.8
15°	4726.8	4742.2	4787.6	4883.1	5010.5	5195.8	5453.4	5785.4	5827.9	6207.1	6425.2
17.5°	4622.5	4639.9	4671.8	4750.9	4870.6	5049.1	5293.2	5657.1	5695.7	6144.4	6426.2
20°	4591.7	4606.1	4624.5	4672.7	4774.0	4936.2	5166.8	5541.3	5582.7	6094.2	6435.8
22.5°	4652.5	4663.1	4665.0	4661.1	4722.9	4855.1	5075.1	5456.3	5500.7	6061.4	6442.6
25°	4782.7	4797.2	4786.6	4750.9	4730.6	4811.7	5027.9	5400.4	5444.7	6037.3	6429.1
27.5°	4978.6	4980.6	4971.9	4925.6	4830.0	4816.5	5013.4	5367.5	5410.0	6009.3	6401.1
30°	5245.0	5257.5	5242.1	5179.4	5023.0	4893.7	5030.7	5335.7	5374.3	5973.6	6355.7
32.5°	5556.7	5587.6	5586.6	5521.0	5297.1	5066.5	5102.2	5316.4	5346.3	5936.0	6300.7
35°	5880.0	5922.4	6001.6	5973.6	5696.6	5339.6	5239.2	5347.3	5367.5	5931.1	6262.1
37.5°	6215.8	6258.3	6421.4	6496.6	6172.4	5730.4	5455.4	5456.3	5466.0	5990.0	6259.2
40°	6567.1	6612.4	6857.6	7053.5	6789.0	6225.5	5803.7	5684.1	5673.5	6134.8	6316.2
42.5°	7059.3	7099.8	7394.1	7644.1	7473.3	6859.5	6285.3	6035.4	6013.2	6418.5	6498.6
45°	7681.7	7716.5	8029.1	8296.4	8208.6	7583.3	6890.4	6518.8	6515.0	6891.3	6868.2
47.5°	8421.9	8448.9	8729.7	8988.4	9020.2	8416.1	7650.8	7264.8	7202.1	7539.8	7440.4
50°	9193.0	9222.9	9414.0	9691.9	9928.3	9530.7	8629.4	8178.7	8094.7	8395.8	8251.1
52.5°	9703.5	9743.0	9909.0	10261.3	10949.3	10752.5	9786.5	9286.6	9159.2	9433.3	9322.3
55°	9475.7	9564.5	9818.3	10382.9	11765.8	12618.8	11213.8	10578.8	10435.0	10662.7	10597.1
57.5°	8440.2	8561.8	8908.3	9779.7	11880.6	14263.3	13371.6	12100.6	11999.3	11933.7	11963.6
60°	6547.8	6664.6	7094.0	8229.9	11080.6	15463.8	16618.9	13976.7	13830.0	13209.5	13236.5
62.5°	4634.1	4575.2	4869.6	5700.5	9003.8	15604.7	20314.1	16485.8	16003.2	14556.6	14437.9
65°	3534.0	3520.5	3652.7	3917.1	5453.4	13918.8	22515.3	20703.0	19949.3	16141.2	15861.4
67.5°	2903.8	2879.7	3010.0	3395.0	3511.8	8979.7	22563.6	25595.7	24855.5	18113.8	17507.7
70°	2387.5	2360.5	2482.1	2979.1	3245.4	4554.0	18990.0	28460.9	28421.4	20611.3	18750.7
71°	2140.5	2121.2	2266.9	2818.9	3188.5	3795.5	16396.0	28468.6	28587.3	21456.7	18677.4
72.5°	1742.9	1749.6	1904.0	2509.1	3146.0	3351.6	12050.4	27141.7	27392.6	22262.5	18010.5
75°	1158.0	1163.8	1366.5	1930.1	3050.5	3279.2	6623.1	22774.9	23236.2	21780.0	16434.6
77.5°	777.8	775.9	913.9	1324.0	2657.7	3279.2	3883.3	17033.9	17540.5	17330.2	12670.0
80°	535.6	531.7	629.2	913.9	2012.1	3318.8	3002.2	11937.5	12091.0	9358.9	5149.4
82.5°	328.1	331.0	411.1	645.6	1369.4	2986.8	2834.3	6509.2	6342.2	2624.9	1286.4
85°	188.2	187.2	262.5	437.2	879.2	2520.7	2763.9	2801.5	2569.9	790.4	465.1
87.5°	67.6	72.4	140.9	242.2	503.8	1755.4	2345.0	1457.2	1313.4	357.1	210.4
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°	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0	6403.0
2.5°	6395.3	6401.1	6394.3	6355.7	6322.9	6269.9	6239.9	6198.4	6185.9	6180.1	6195.5
5°	6419.4	6421.4	6364.4	6263.1	6149.2	6015.1	5918.6	5799.9	5743.9	5719.8	5735.2
7.5°	6441.6	6432.9	6308.5	6114.5	5904.1	5670.6	5463.1	5273.0	5162.0	5116.6	5120.5
10°	6444.5	6407.9	6208.1	5908.0	5581.8	5239.2	4920.7	4627.4	4442.1	4321.4	4358.1
12.5°	6414.6	6352.9	6060.4	5640.7	5188.0	4721.0	4290.6	3850.5	3586.1	3463.5	3467.4
15°	6391.5	6279.5	5879.0	5326.0	4718.1	4099.5	3511.8	2994.5	2712.7	2587.3	2528.4
17.5°	6372.2	6200.4	5668.6	4971.9	4163.2	3378.6	2672.2	2210.9	2056.5	2019.8	2004.4
20°	6345.1	6116.4	5434.1	4561.7	3531.1	2571.8	1951.3	1723.6	1724.5	1767.0	1772.8
22.5°	6307.5	6020.9	5184.2	4101.4	2852.7	1873.1	1529.6	1464.0	1530.6	1611.6	1626.1
25°	6251.5	5908.0	4906.3	3592.8	2175.2	1439.8	1306.7	1303.8	1384.8	1469.8	1482.3
27.5°	6172.4	5760.3	4597.4	3046.6	1602.9	1223.7	1170.6	1190.9	1250.7	1312.5	1317.3
30°	6066.2	5588.5	4256.8	2470.5	1256.5	1089.5	1083.7	1102.1	1138.7	1182.2	1186.0
32.5°	5949.5	5413.9	3893.0	1912.7	1076.0	1017.2	1022.9	1031.6	1049.0	1066.4	1070.2
35°	5843.3	5235.3	3520.5	1453.3	990.1	969.9	966.0	964.1	966.0	960.2	961.2
37.5°	5774.8	5087.7	3132.5	1157.1	940.9	928.4	916.8	902.3	885.9	876.3	878.2
40°	5749.7	4977.7	2739.7	999.8	900.4	891.7	869.5	838.6	819.3	813.5	813.5
42.5°	5817.3	4920.7	2360.5	920.6	866.6	852.1	815.5	779.8	765.3	764.3	763.3
45°	6023.8	4943.9	1999.6	877.2	835.7	807.7	759.5	729.6	719.9	721.8	720.9
47.5°	6394.3	5089.6	1690.7	848.3	804.8	768.2	714.1	690.0	678.4	678.4	679.4
50°	7024.5	5430.3	1444.7	824.1	778.8	731.5	681.3	651.4	636.0	635.0	635.0
52.5°	7942.3	6040.2	1291.2	803.9	749.8	698.7	648.5	610.9	592.5	588.7	586.7
55°	9092.6	6914.5	1248.8	790.4	711.2	663.0	608.9	571.3	551.0	542.4	541.4
57.5°	10379.0	7978.0	1332.7	774.0	671.7	620.5	565.5	529.8	508.6	498.0	497.0
60°	11680.8	9138.9	1675.3	750.8	638.9	574.2	521.1	488.3	467.1	455.5	453.6
62.5°	12984.6	10362.6	2375.0	748.9	615.7	529.8	475.8	447.8	427.5	415.0	412.1
65°	14455.3	11702.1	3170.2	800.0	608.0	489.3	429.4	407.2	389.9	378.3	377.3
67.5°	16144.1	13214.3	3093.9	905.2	634.0	452.6	386.0	368.6	356.1	346.4	345.5
70°	16936.4	12977.8	1923.3	979.5	670.7	416.9	344.5	332.0	322.3	315.6	312.7
71°	16604.5	12322.6	1612.6	970.8	666.8	401.5	328.1	318.5	308.8	303.0	300.1
72.5°	15699.3	11237.9	1345.3	903.3	623.4	373.5	306.9	297.2	288.5	281.8	279.9
75°	14087.6	10036.4	1077.0	721.8	497.0	315.6	269.2	258.6	251.9	248.0	244.2
77.5°	10355.8	7162.5	832.8	570.3	365.7	257.7	229.7	222.0	215.2	209.4	206.5
80°	3967.3	2774.5	560.7	425.6	268.3	203.6	185.3	181.4	174.7	170.8	170.8
82.5°	1068.3	829.0	299.2	257.7	179.5	148.6	141.9	139.9	134.1	126.4	127.4
85°	432.3	365.7	167.9	141.9	110.0	87.8	95.5	96.5	89.7	80.1	81.1
87.5°	190.1	155.4	93.6	62.7	48.3	33.8	43.4	43.4	39.6	32.8	29.9
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)