

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: P319099

Luminaire Tested: **GAN-SA5D-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38509 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

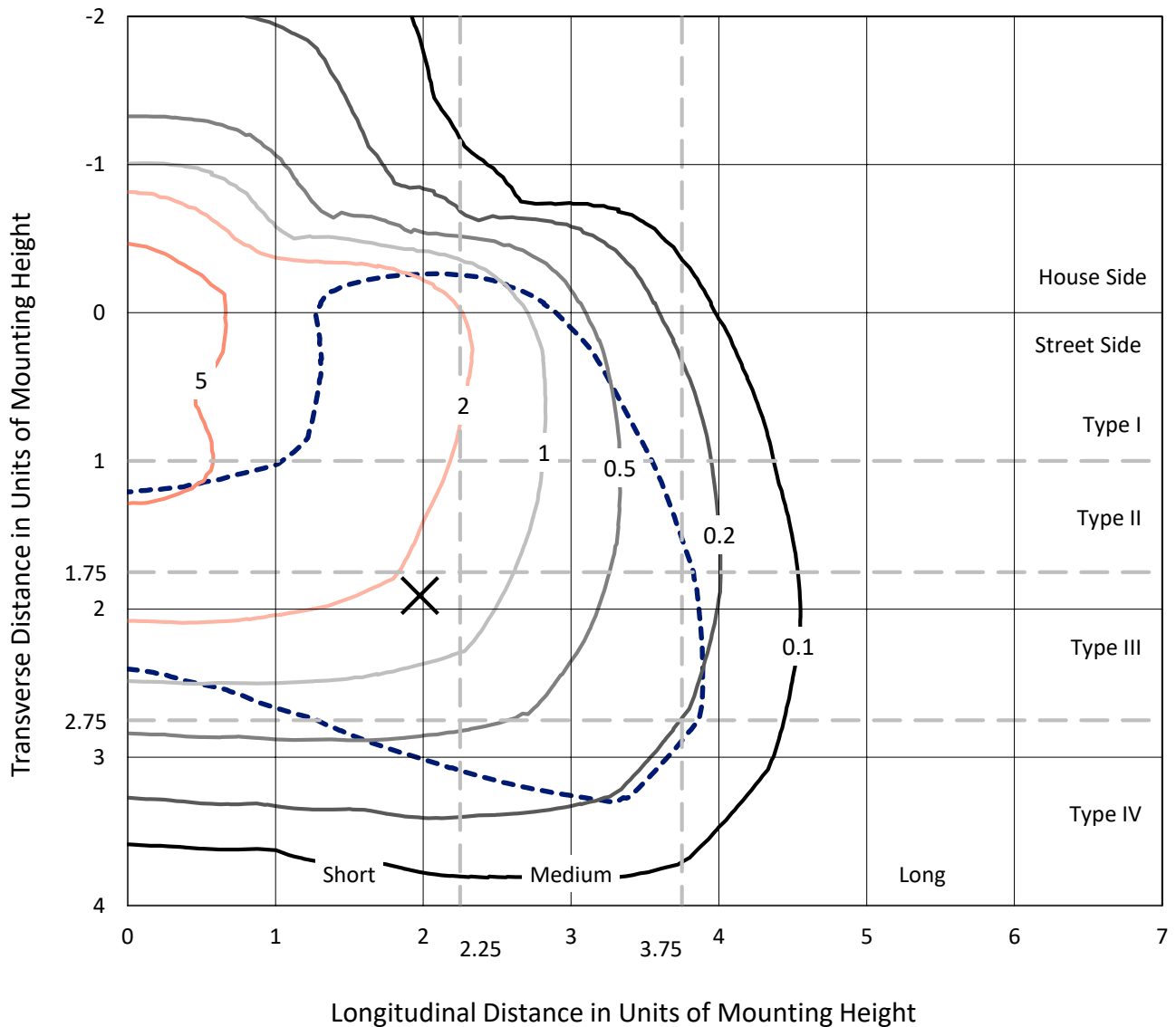
Input Watts (W): 320
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

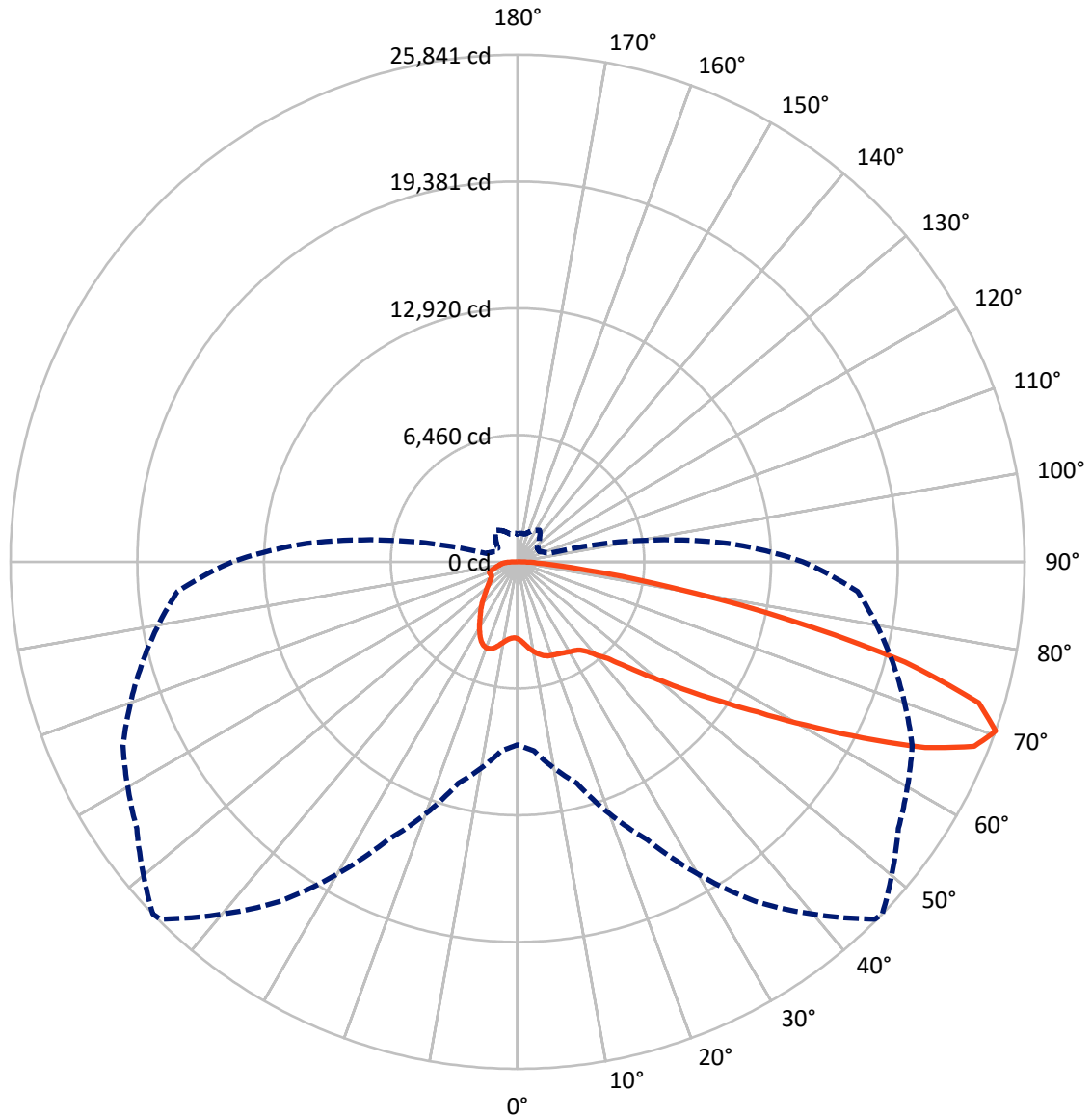
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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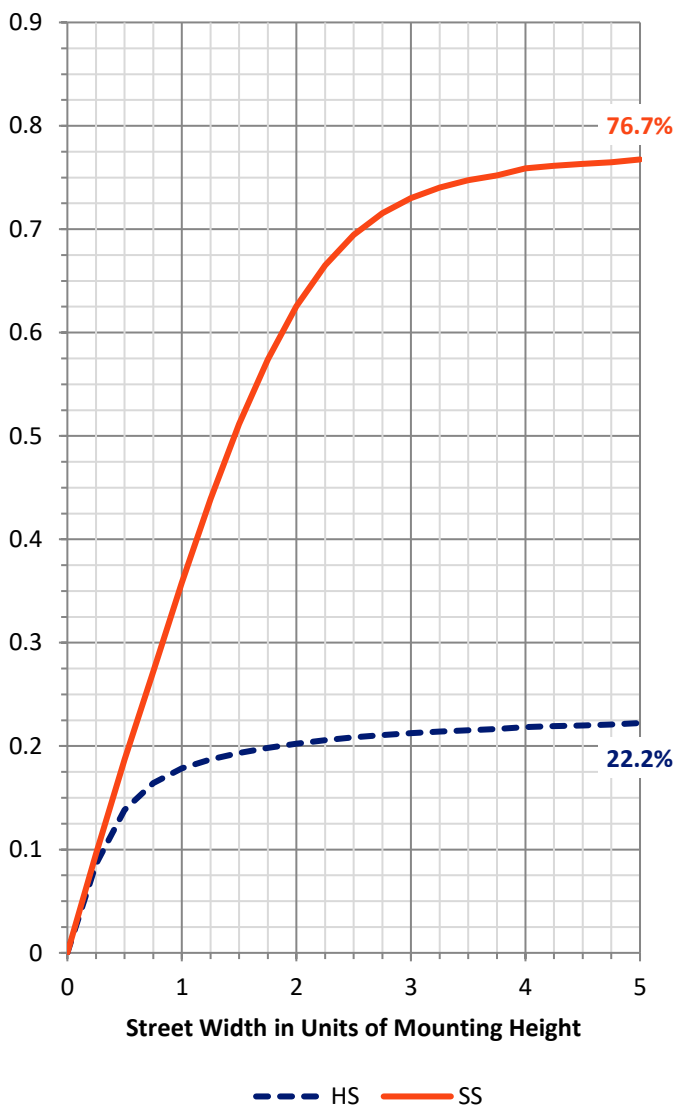
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8826.1	0.0	8826.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	29682.9	0.0	29682.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	38509.0	0.0	38509.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	1.0
10°-20°	1332.5	3.5
20°-30°	2221.8	5.8
30°-40°	3152.9	8.2
40°-50°	4637.8	12.0
50°-60°	7854.0	20.4
60°-70°	11148.7	29.0
70°-80°	6772.9	17.6
80°-90°	988.4	2.6
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°	38509.0	100.0
0°-180°	38509.0	100.0

Coefficient of Utilization

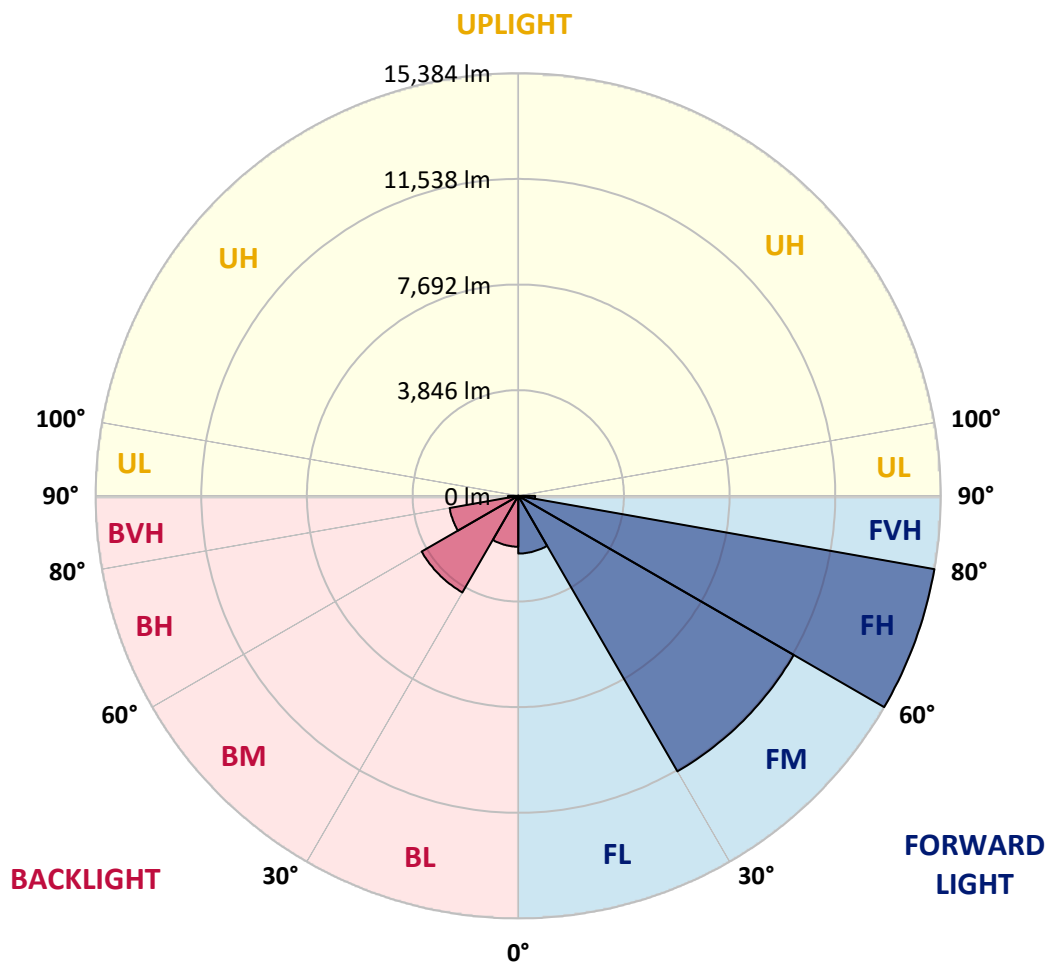


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.2	5.5			
FM (30°-60°)	11581.8	30.1			
FH (60°-80°)	15384.1	39.9			G5
FVH (80°-90°)	615.7	1.6			G4/750
BL (0°-30°)	1853.1	4.8	B3/2500		
BM (30°-60°)	4062.9	10.6	B3/5000		
BH (60°-80°)	2537.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	372.7	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3
2.5°	4119.7	4122.3	4127.6	4114.4	4077.5	4067.0	4063.0	4024.8	3999.8	3962.8	3931.2
5°	4449.1	4451.8	4443.9	4407.0	4325.3	4264.6	4259.4	4172.4	4093.3	4009.0	3945.7
7.5°	4793.1	4797.1	4772.0	4702.2	4587.5	4482.1	4475.5	4356.9	4237.0	4109.1	4014.2
10°	5097.5	5081.7	5040.9	4943.3	4807.6	4678.5	4673.2	4549.3	4410.9	4256.7	4130.2
12.5°	5300.5	5287.3	5234.6	5116.0	4967.1	4848.5	4837.9	4723.3	4588.8	4420.2	4268.6
15°	5412.5	5421.7	5350.6	5216.1	5071.2	4971.0	4961.8	4880.1	4760.2	4590.2	4416.2
17.5°	5427.0	5434.9	5366.4	5233.3	5114.7	5046.1	5042.2	4988.2	4901.2	4737.8	4555.9
20°	5342.7	5347.9	5291.3	5181.9	5104.1	5083.0	5081.7	5058.0	4993.4	4848.5	4671.9
22.5°	5220.1	5224.1	5183.2	5104.1	5077.8	5110.7	5119.9	5110.7	5064.6	4928.9	4762.8
25°	5189.8	5187.2	5145.0	5064.6	5087.0	5156.8	5168.7	5172.7	5141.0	5022.4	4878.8
27.5°	5336.1	5326.9	5246.5	5117.3	5131.8	5216.1	5232.0	5270.2	5250.4	5146.3	5010.6
30°	5759.1	5743.3	5578.6	5317.6	5246.5	5289.9	5309.7	5370.3	5374.3	5287.3	5185.8
32.5°	6473.4	6453.6	6158.4	5691.9	5440.2	5365.1	5383.5	5474.5	5523.2	5456.0	5346.6
35°	7376.1	7353.7	6966.3	6328.4	5764.4	5508.7	5521.9	5594.4	5691.9	5597.0	5452.0
37.5°	8317.1	8263.1	7890.1	7077.0	6279.7	5815.8	5815.8	5825.0	5871.1	5673.5	5575.9
40°	9252.8	9198.8	8861.4	7957.3	6946.5	6299.4	6269.1	6064.9	6028.0	5858.0	5825.0
42.5°	10122.6	10106.8	9907.8	8952.3	7729.3	6775.2	6733.0	6386.4	6394.3	6288.9	6290.2
45°	11047.7	11047.7	10885.6	9956.5	8641.3	7539.6	7497.4	6987.4	7066.4	7017.7	7135.0
47.5°	11802.9	11826.6	11804.2	11002.9	9702.2	8510.8	8434.4	7820.3	8041.7	8209.0	8550.4
50°	12573.8	12610.7	12614.7	12150.8	10984.5	9665.3	9578.3	8926.0	9420.2	9899.9	10570.7
52.5°	13692.7	13775.7	13445.0	13296.0	12555.4	11035.9	10950.2	10348.0	11172.9	11846.4	13002.2
55°	14729.9	14657.4	14421.5	14513.8	14237.0	12596.2	12531.7	12003.2	13126.0	14001.1	15502.2
57.5°	15291.3	15286.0	15523.2	15918.6	16050.4	14520.3	14466.3	13952.3	15328.2	15985.8	17849.3
60°	15950.2	15959.5	16547.2	17444.7	17987.7	16916.2	16892.5	16502.4	17467.1	17838.8	19690.4
62.5°	16042.5	16208.5	17220.7	18765.2	19801.1	19715.4	19768.1	18799.5	19380.7	19317.4	21064.9
65°	14981.6	15200.4	17032.2	19164.5	21603.9	22776.8	22825.6	21109.7	20889.6	20581.3	21556.5
67.5°	12807.1	13131.3	15121.3	18296.1	22198.3	25039.6	25108.2	22900.7	22141.6	21009.6	20373.0
70°	9320.0	9679.8	11683.0	15626.0	21138.7	25763.1	25840.9	23692.8	22189.1	19790.5	17392.0
72.5°	5630.0	5912.0	7563.3	11503.7	17841.4	24445.3	24583.6	22688.5	20258.4	16763.4	12842.7
75°	2472.3	2656.8	3657.1	6628.9	12772.8	20225.4	20398.1	19420.2	16460.3	12182.4	7591.0
77.5°	1053.0	1105.7	1499.7	2879.6	7220.6	13820.6	14057.8	14189.6	11167.7	6628.9	3207.7
80°	656.3	677.4	848.7	1303.4	3379.0	7762.3	8018.0	8348.7	5545.6	2436.8	1120.2
82.5°	399.3	423.0	564.1	788.1	1759.4	3518.7	3641.3	3874.6	2152.1	1053.0	579.9
85°	239.9	257.0	345.3	498.2	1001.6	1383.8	1382.5	1528.7	1013.4	677.4	305.7
87.5°	114.7	127.8	184.5	258.3	504.7	519.2	486.3	550.9	615.4	444.1	154.2
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°	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3	3923.3
2.5°	3920.7	3915.4	3898.3	3885.1	3882.5	3874.6	3868.0	3871.9	3877.2	3878.5	3878.5
5°	3919.4	3904.9	3882.5	3873.2	3885.1	3900.9	3920.7	3947.0	3962.8	3974.7	3982.6
7.5°	3982.6	3954.9	3929.9	3924.6	3948.4	3990.5	4035.3	4090.7	4128.9	4155.3	4160.5
10°	4088.0	4053.8	4028.7	4034.0	4076.2	4136.8	4200.1	4271.2	4329.2	4364.8	4367.4
12.5°	4209.3	4176.3	4152.6	4175.0	4244.9	4318.7	4384.6	4446.5	4499.2	4534.8	4534.8
15°	4349.0	4325.3	4297.6	4349.0	4443.9	4509.8	4537.4	4567.8	4596.7	4623.1	4617.8
17.5°	4483.4	4461.0	4446.5	4507.1	4606.0	4636.3	4617.8	4595.4	4595.4	4609.9	4612.6
20°	4599.4	4579.6	4588.8	4648.1	4699.5	4667.9	4599.4	4528.2	4499.2	4507.1	4515.0
22.5°	4700.9	4691.6	4719.3	4747.0	4710.1	4599.4	4472.9	4376.7	4341.1	4338.4	4341.1
25°	4819.5	4818.2	4852.4	4802.3	4638.9	4434.6	4264.6	4171.1	4151.3	4167.1	4193.5
27.5°	4967.1	4981.6	4998.7	4815.5	4494.0	4185.6	4012.9	3948.4	3968.1	4006.3	4031.4
30°	5155.5	5195.1	5158.2	4782.6	4285.7	3900.9	3736.2	3717.7	3771.8	3825.8	3852.1
32.5°	5338.7	5400.7	5311.0	4696.9	4016.9	3599.1	3471.3	3466.0	3531.9	3584.6	3621.5
35°	5486.3	5608.9	5425.7	4526.9	3705.9	3321.0	3227.5	3191.9	3215.6	3277.6	3319.7
37.5°	5678.7	5883.0	5504.8	4267.3	3368.5	3091.7	2982.4	2900.6	2879.6	2904.6	2925.7
40°	6030.6	6300.8	5541.7	3904.9	3039.0	2862.4	2751.7	2631.8	2548.8	2488.1	2489.5
42.5°	6605.2	6845.0	5517.9	3464.7	2734.6	2638.4	2513.2	2374.8	2240.4	2103.3	2092.8
45°	7538.2	7654.2	5446.8	2998.2	2467.1	2403.8	2286.5	2148.1	1968.9	1813.4	1798.9
47.5°	9031.4	8774.4	5336.1	2590.9	2231.2	2204.8	2096.7	1937.3	1747.5	1622.3	1611.8
50°	11067.5	10391.4	5282.0	2266.7	2022.9	2030.8	1942.5	1773.9	1594.6	1502.4	1491.8
52.5°	13502.9	12274.7	5386.2	2016.3	1855.6	1883.2	1817.3	1659.2	1509.0	1436.5	1425.9
55°	16029.3	14225.1	5498.2	1834.5	1697.4	1751.5	1729.1	1598.6	1462.8	1395.6	1386.4
57.5°	18191.9	15681.4	5274.1	1686.9	1556.4	1640.8	1660.5	1560.4	1439.1	1378.5	1368.0
60°	19553.3	16267.8	4686.4	1548.5	1444.4	1552.5	1621.0	1549.8	1448.3	1443.1	1435.2
62.5°	20199.1	16216.4	3804.7	1439.1	1374.5	1514.2	1650.0	1609.1	1553.8	1601.2	1605.2
65°	19909.1	15441.5	2833.4	1366.6	1324.5	1528.7	1737.0	1721.1	1584.1	1631.5	1638.1
67.5°	18000.9	13592.6	2098.1	1303.4	1269.1	1569.6	1895.1	1758.0	1524.8	1559.0	1538.0
70°	14549.3	10776.3	1618.4	1232.2	1212.4	1564.3	1966.3	1735.6	1460.2	1468.1	1411.4
72.5°	10033.0	7348.5	1316.6	1166.3	1130.7	1425.9	1916.2	1680.3	1406.2	1345.6	1270.4
75°	5456.0	3944.4	1118.9	1097.8	987.1	1252.0	1823.9	1640.8	1357.4	1277.0	1234.8
77.5°	2146.8	1636.8	971.3	1004.2	863.2	1105.7	1721.1	1565.6	1290.2	1184.8	1163.7
80°	876.4	835.5	805.2	868.5	742.0	967.3	1597.3	1477.3	1209.8	1099.1	1056.9
82.5°	496.8	519.2	626.0	685.3	602.3	890.9	1538.0	1406.2	1113.6	984.5	934.4
85°	254.3	304.4	436.2	491.6	442.8	757.8	1416.7	1230.9	893.5	753.8	757.8
87.5°	122.6	170.0	275.4	308.4	287.3	548.2	1058.3	892.2	695.8	550.9	533.7
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)