

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: P317817

Luminaire Tested: **GAN-SA3D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24219 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

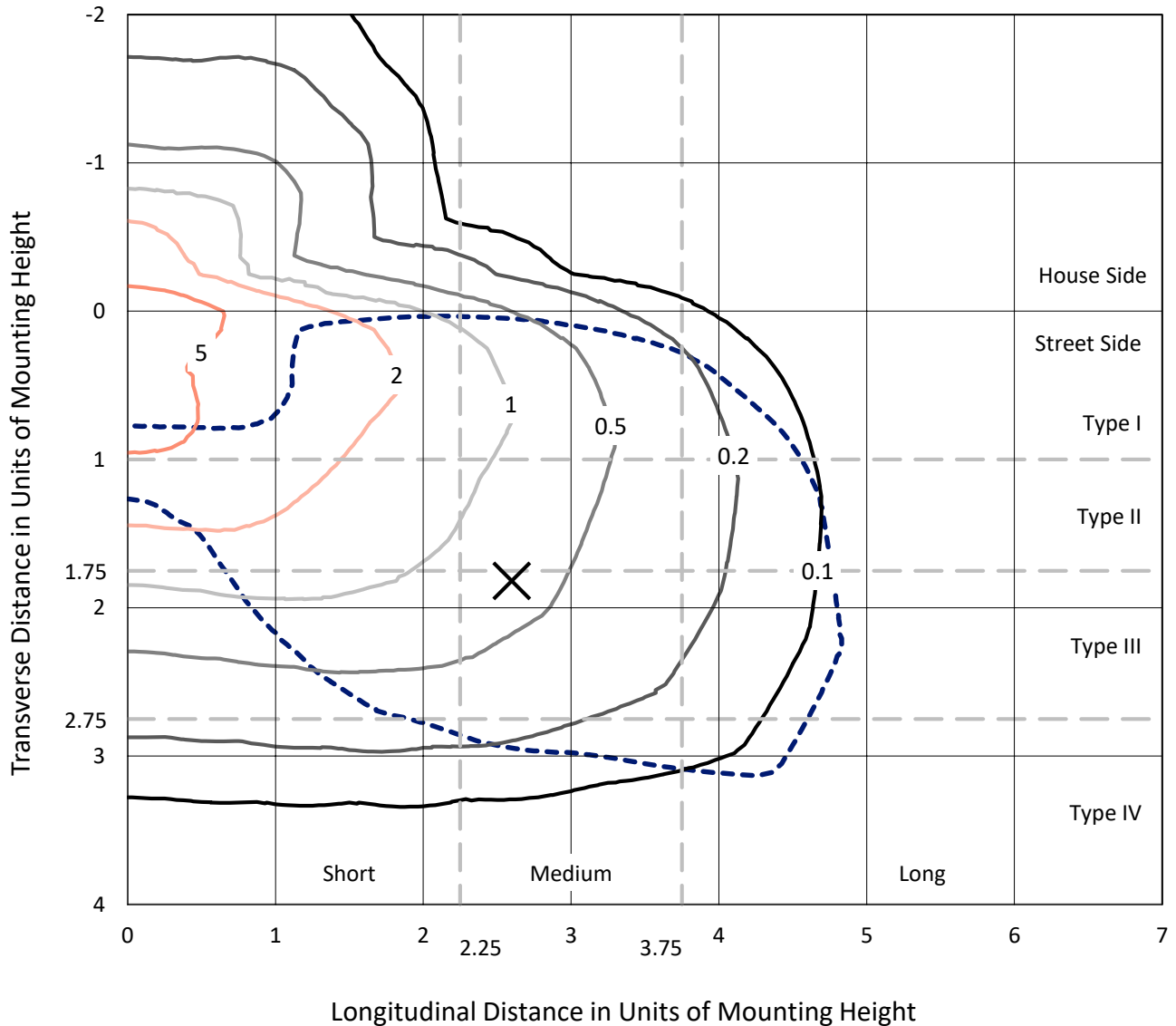
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

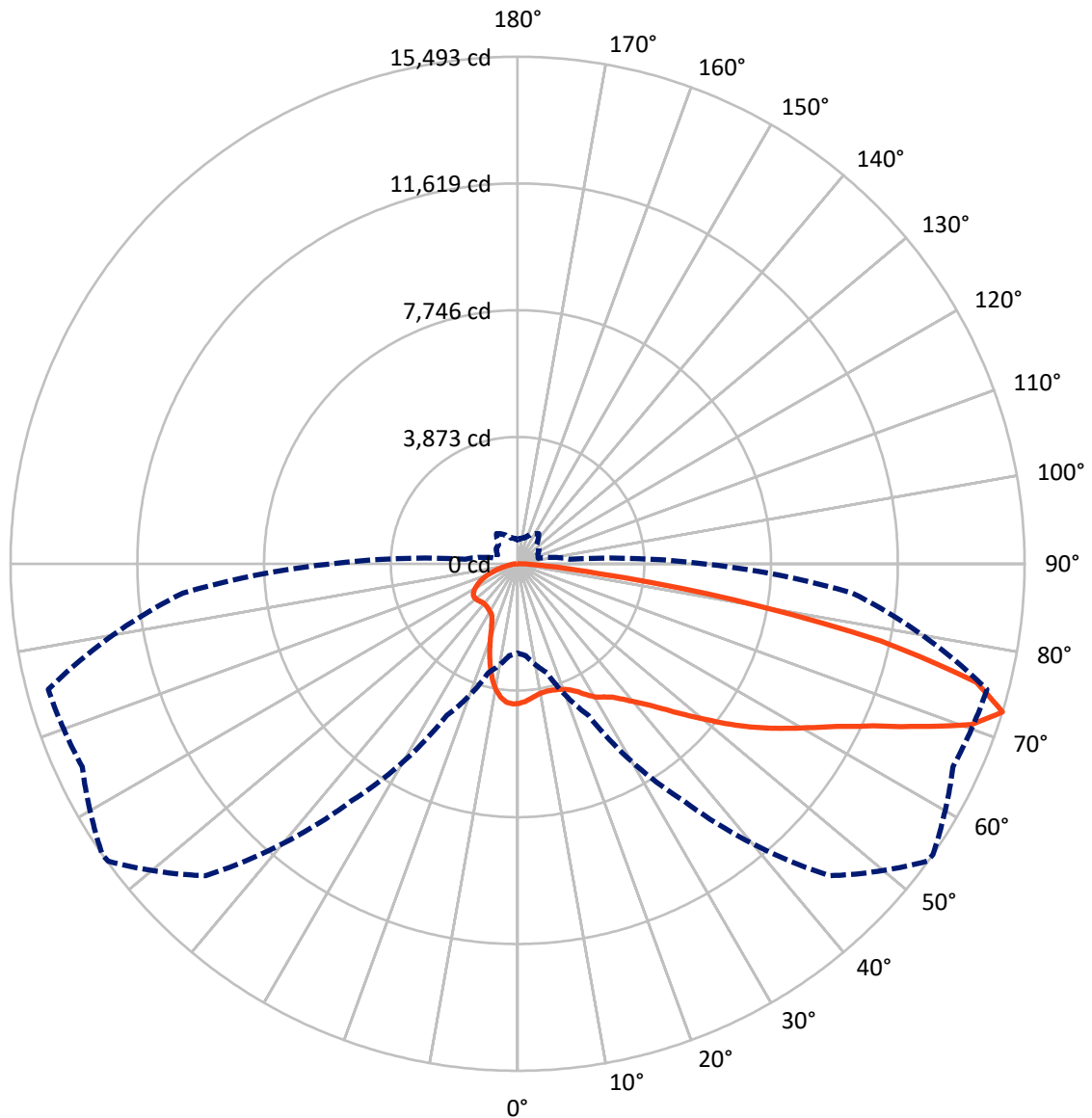
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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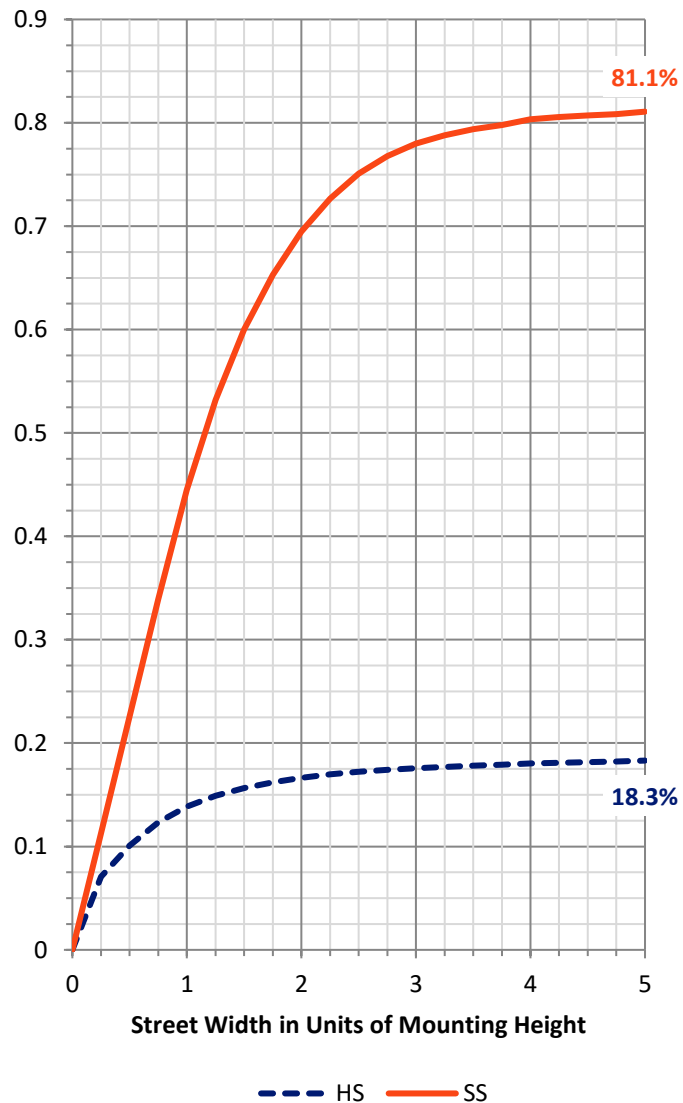
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4501.5	0.0	4501.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19717.5	0.0	19717.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	24219.0	0.0	24219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	1.6
10°-20°	1029.1	4.2
20°-30°	1696.7	7.0
30°-40°	2509.9	10.4
40°-50°	3503.3	14.5
50°-60°	4561.4	18.8
60°-70°	5605.9	23.1
70°-80°	4394.3	18.1
80°-90°	531.8	2.2
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°	24219.0	100.0
0°-180°	24219.0	100.0

Coefficient of Utilization

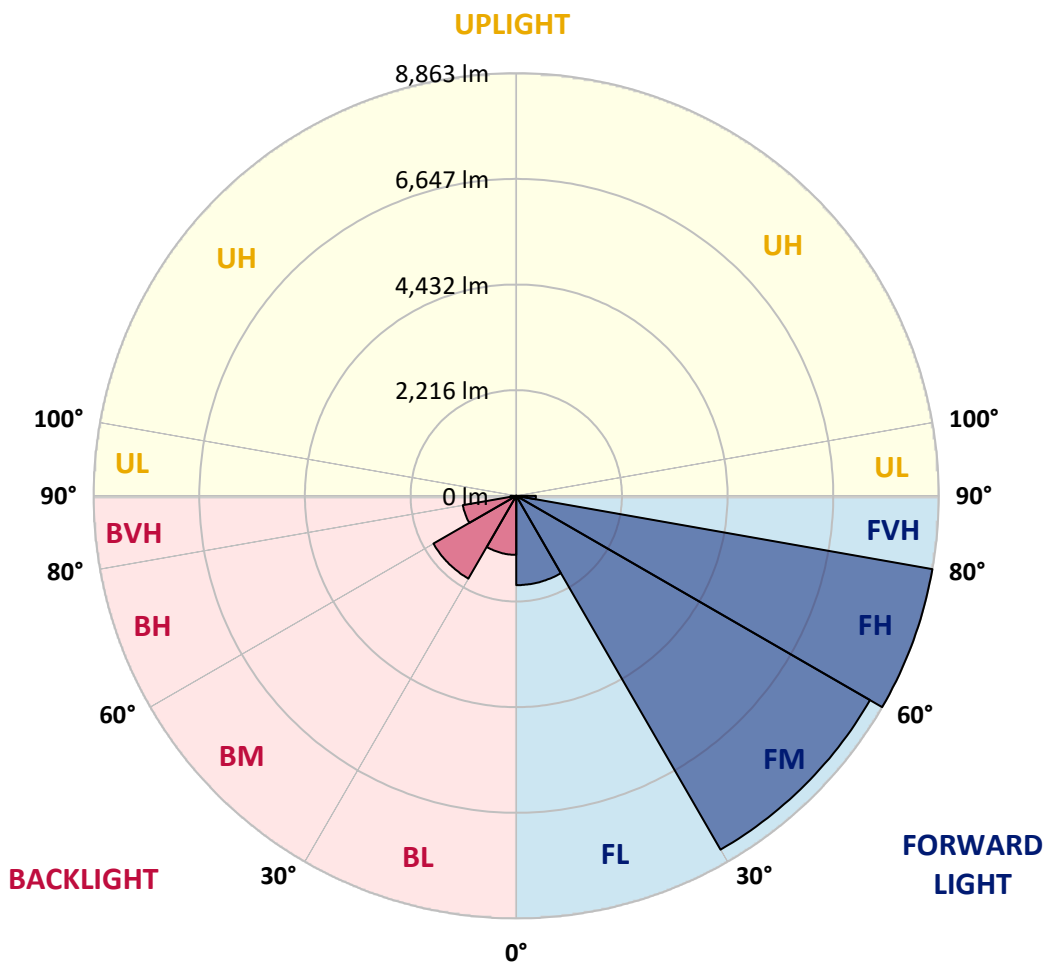


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.8	7.7			
FM (30°-60°)	8569.2	35.4			
FH (60°-80°)	8863.3	36.6			G4/12000
FVH (80°-90°)	411.1	1.7			G3/500
BL (0°-30°)	1238.6	5.1	B3/2500		
BM (30°-60°)	2005.5	8.3	B2/2500		
BH (60°-80°)	1136.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	120.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7
2.5°	4132.6	4122.8	4135.1	4152.3	4171.1	4196.5	4211.2	4217.7	4243.1	4252.9	4274.2
5°	3941.2	3936.3	3956.8	3986.2	4027.9	4086.8	4134.3	4143.3	4210.4	4257.8	4301.2
7.5°	3802.2	3802.2	3825.9	3861.1	3907.7	3987.0	4054.1	4066.4	4180.1	4282.3	4362.5
10°	3691.7	3695.8	3723.6	3765.4	3820.2	3904.4	3993.6	4007.5	4171.9	4339.6	4467.2
12.5°	3618.1	3627.9	3653.3	3690.9	3758.8	3861.1	3974.0	3992.8	4189.1	4421.4	4593.2
15°	3664.7	3681.1	3683.6	3699.1	3736.7	3848.0	3985.4	4005.0	4225.9	4504.8	4736.3
17.5°	3869.2	3875.0	3849.6	3816.9	3798.9	3870.1	4019.8	4040.2	4270.1	4587.5	4873.8
20°	4180.1	4176.8	4122.0	4033.7	3942.0	3953.5	4076.2	4097.5	4329.8	4660.3	5011.2
22.5°	4572.7	4561.3	4477.0	4314.2	4158.0	4092.6	4175.2	4193.2	4419.8	4764.2	5158.4
25°	5048.8	5023.5	4912.2	4693.8	4463.9	4295.4	4324.1	4341.2	4550.7	4880.3	5293.4
27.5°	5551.1	5525.7	5384.2	5120.0	4814.1	4551.5	4529.4	4544.1	4699.5	4966.2	5393.2
30°	6076.3	6049.3	5920.0	5623.9	5185.4	4816.5	4720.8	4726.5	4804.2	5012.8	5475.0
32.5°	6603.9	6578.5	6433.7	6090.2	5588.7	5101.2	4859.1	4851.7	4867.2	5061.1	5567.5
35°	7138.9	7148.7	6979.4	6599.0	6035.4	5417.8	5022.7	5007.1	4972.8	5160.1	5698.3
37.5°	7711.5	7704.9	7485.7	7088.2	6502.5	5761.3	5257.4	5255.0	5136.4	5347.4	5903.7
40°	8094.3	8098.4	7965.1	7588.8	6974.5	6141.7	5558.5	5552.7	5397.3	5628.0	6172.8
42.5°	8244.0	8271.0	8305.4	8066.5	7468.5	6582.6	5917.6	5909.4	5761.3	6030.5	6489.4
45°	8254.7	8308.6	8521.3	8491.1	7969.2	7087.3	6376.5	6353.6	6247.2	6565.4	6867.3
47.5°	8163.0	8218.7	8572.1	8743.8	8416.6	7619.9	6913.1	6895.1	6803.5	7234.6	7276.3
50°	7962.6	8015.8	8467.3	8867.4	8784.7	8132.0	7531.5	7484.1	7435.0	8007.6	7744.2
52.5°	7587.2	7689.4	8327.5	8896.8	9004.8	8586.8	8181.9	8150.8	8177.8	8823.2	8212.9
55°	6698.0	6812.5	7966.7	8872.3	9167.6	8968.8	8832.2	8830.5	8970.4	9678.8	8716.0
57.5°	6199.8	6280.8	7232.1	8830.5	9360.6	9348.4	9476.0	9491.5	9763.9	10610.6	9242.8
60°	5918.4	6003.5	6859.9	8675.9	9660.0	9839.2	10132.8	10163.9	10570.5	11642.1	9876.8
62.5°	5662.3	5755.6	6629.2	8361.0	10012.6	10541.0	10919.8	10947.6	11424.5	12702.2	10489.5
65°	5224.7	5330.2	6291.4	8154.0	10333.3	11456.4	11920.2	11939.0	12405.3	13813.1	10958.2
67.5°	4606.3	4702.8	5654.2	7696.8	10570.5	12568.1	13250.3	13261.0	13377.9	14597.6	11197.9
70°	3884.0	3920.8	4746.2	6752.8	10289.9	13607.8	14708.0	14710.5	14264.7	15099.9	11158.6
72.5°	2728.9	2815.6	3445.5	5111.8	8842.8	13481.0	15464.7	15492.5	14676.9	14846.3	10267.0
75°	1673.7	1765.3	2161.2	3097.8	5610.0	10602.4	14288.4	14481.4	13903.9	13237.2	8387.2
77.5°	1119.1	1153.4	1410.3	1806.2	2541.6	6100.0	10985.2	11348.4	11550.5	9653.5	5363.8
80°	624.2	689.6	935.0	1122.3	1130.5	2423.8	6586.7	6671.8	6426.4	3843.9	1654.9
82.5°	330.5	366.5	624.2	659.3	616.8	811.5	2454.9	2457.3	2053.2	1030.7	491.6
85°	256.0	286.3	427.8	402.5	314.9	359.9	809.8	854.0	698.6	422.1	160.3
87.5°	127.6	158.7	290.4	255.2	123.5	103.1	289.6	309.2	275.7	165.2	58.1
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°	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7	4271.7
2.5°	4282.3	4289.7	4298.7	4288.9	4285.6	4272.5	4250.4	4245.5	4234.1	4234.9	4241.4
5°	4320.0	4332.2	4327.3	4289.7	4244.7	4181.7	4116.3	4060.7	4023.8	4021.4	4018.9
7.5°	4392.0	4400.1	4361.7	4254.5	4128.6	3982.9	3845.5	3725.3	3652.5	3634.5	3630.4
10°	4504.8	4503.2	4397.7	4181.7	3930.6	3670.5	3449.6	3282.7	3185.4	3156.7	3149.4
12.5°	4630.8	4612.0	4410.0	4049.2	3650.8	3290.1	3010.3	2824.6	2723.2	2690.5	2682.3
15°	4760.9	4714.3	4379.7	3851.2	3307.3	2880.3	2586.6	2414.8	2360.0	2342.0	2338.7
17.5°	4882.0	4792.0	4293.0	3582.9	2915.4	2472.1	2243.0	2174.3	2187.4	2211.1	2211.9
20°	5000.6	4844.3	4153.9	3244.3	2502.3	2135.9	2058.1	2108.9	2171.0	2219.3	2225.8
22.5°	5117.5	4881.1	3974.8	2853.3	2132.6	1946.9	2001.7	2094.1	2165.3	2217.7	2226.7
25°	5215.7	4890.1	3727.7	2436.1	1875.7	1875.7	1974.7	2062.2	2132.6	2184.1	2193.1
27.5°	5251.7	4829.6	3379.2	2050.0	1746.5	1843.0	1937.1	2009.9	2069.6	2124.4	2134.2
30°	5265.6	4717.5	2976.8	1739.9	1693.3	1807.8	1886.4	1948.5	2005.0	2056.5	2065.5
32.5°	5268.1	4582.6	2549.8	1564.1	1656.5	1771.0	1823.4	1878.2	1938.7	1959.2	1962.4
35°	5283.6	4423.0	2099.9	1474.1	1622.1	1736.7	1778.4	1817.6	1719.5	1726.8	1733.4
37.5°	5328.6	4265.2	1723.6	1423.4	1600.1	1718.7	1768.6	1626.2	1549.3	1531.3	1528.9
40°	5412.9	4096.7	1444.6	1382.5	1591.9	1727.7	1705.6	1518.2	1385.7	1286.7	1272.0
42.5°	5529.8	3915.1	1266.3	1355.5	1597.6	1771.0	1618.0	1414.4	1194.3	1130.5	1122.3
45°	5661.5	3724.5	1169.8	1336.6	1617.2	1804.6	1600.1	1276.1	1105.1	1056.9	1052.8
47.5°	5789.1	3491.3	1119.9	1328.5	1644.2	1777.6	1524.0	1233.6	1062.6	1037.3	1039.7
50°	5935.6	3281.1	1089.6	1319.5	1667.9	1760.4	1438.1	1211.5	1046.3	1077.3	1110.1
52.5°	6059.1	3063.5	1062.6	1301.5	1676.9	1730.1	1416.0	1215.6	1046.3	1106.0	1137.1
55°	6205.5	2899.1	1031.5	1263.8	1659.8	1644.2	1400.5	1240.1	1058.5	1020.9	1024.2
57.5°	6394.5	2845.1	997.2	1204.9	1602.5	1519.1	1393.1	1263.8	1051.2	1027.4	1035.6
60°	6656.2	2902.3	983.3	1128.1	1513.3	1420.9	1393.9	1251.6	999.6	958.7	959.5
62.5°	6905.7	2966.1	982.4	1079.8	1403.7	1333.4	1375.1	1211.5	973.4	949.7	958.7
65°	6987.5	2901.5	943.2	1025.8	1280.2	1228.7	1340.7	1169.0	953.8	917.8	916.2
67.5°	6877.9	2701.1	863.8	938.3	1138.7	1106.8	1295.7	1118.2	922.7	893.3	888.4
70°	6552.4	2253.7	765.7	822.9	977.5	969.4	1224.6	1059.3	881.0	855.7	834.4
72.5°	5676.3	1605.8	645.4	684.7	795.9	822.1	1126.4	982.4	822.1	767.3	734.6
75°	4661.9	1188.6	530.1	538.3	604.5	675.7	991.4	892.5	752.6	659.3	634.0
77.5°	2854.9	727.2	422.1	425.4	433.6	539.1	816.4	791.8	664.2	549.7	531.7
80°	924.4	396.7	305.1	320.7	296.1	395.1	631.5	674.1	570.2	459.7	440.1
82.5°	351.7	231.5	206.1	216.8	205.3	265.0	460.5	539.9	467.1	377.9	307.6
85°	170.1	130.9	121.9	136.6	126.8	135.8	294.5	397.6	354.2	246.2	229.0
87.5°	60.5	58.1	46.6	63.0	54.0	48.3	90.0	200.4	234.0	169.3	151.3
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)