

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: P319409

Luminaire Tested: **GAN-SA5C-750-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319409
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-SA5C-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 34630 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

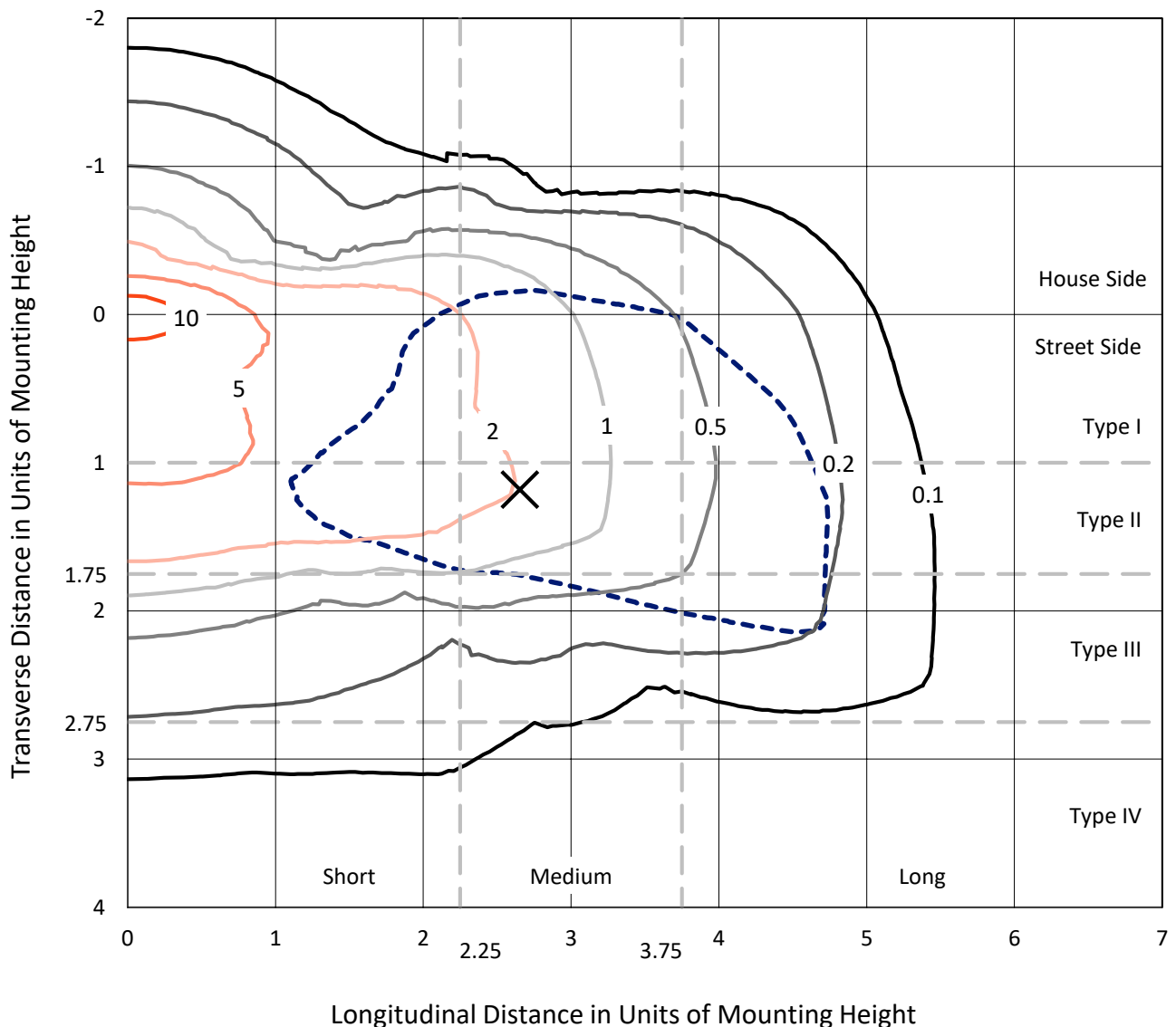
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

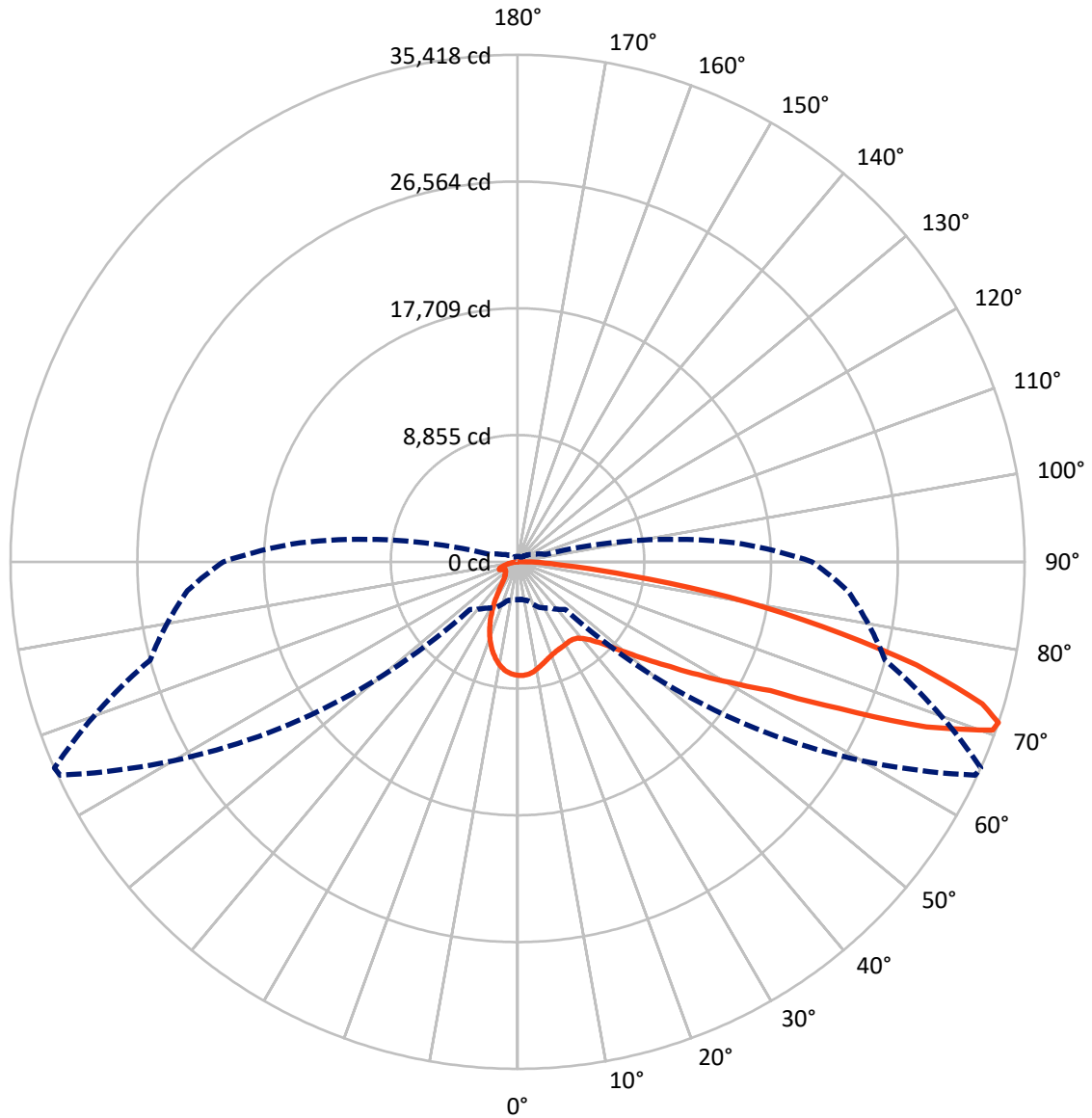
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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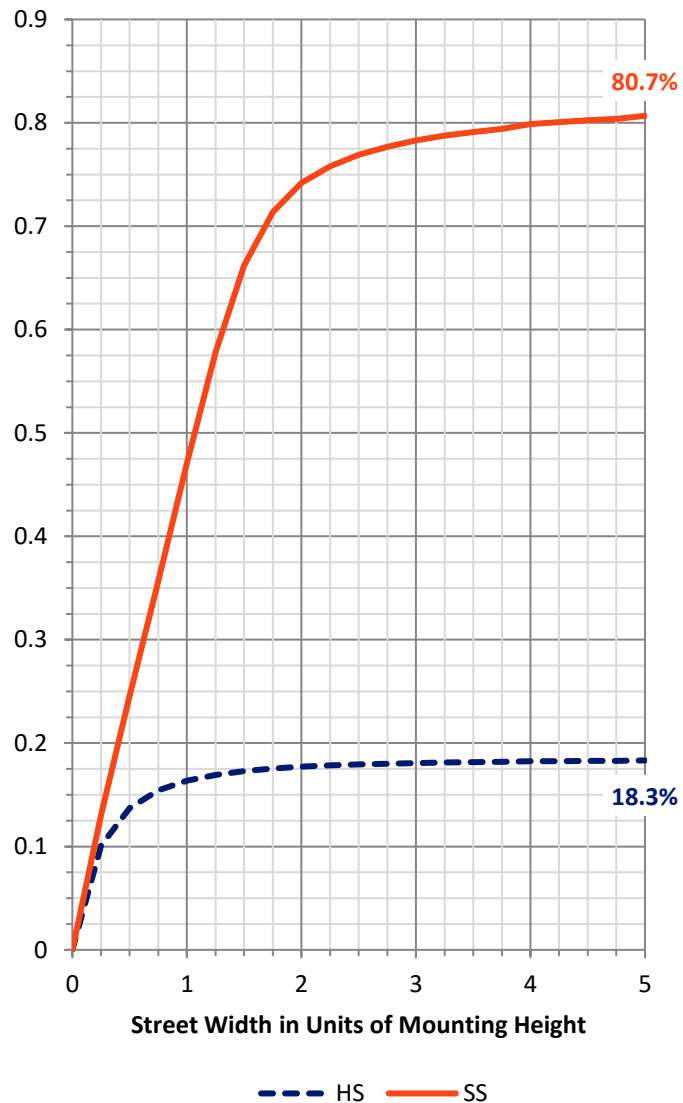
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6417.9	0.0	6417.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	28212.1	0.0	28212.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	34630.0	0.0	34630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	698.3	2.0
10°-20°	1674.8	4.8
20°-30°	2249.7	6.5
30°-40°	2959.5	8.5
40°-50°	4305.2	12.4
50°-60°	6725.2	19.4
60°-70°	8424.4	24.3
70°-80°	6426.0	18.6
80°-90°	1166.9	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°	34630.0	100.0
0°-180°	34630.0	100.0

Coefficient of Utilization

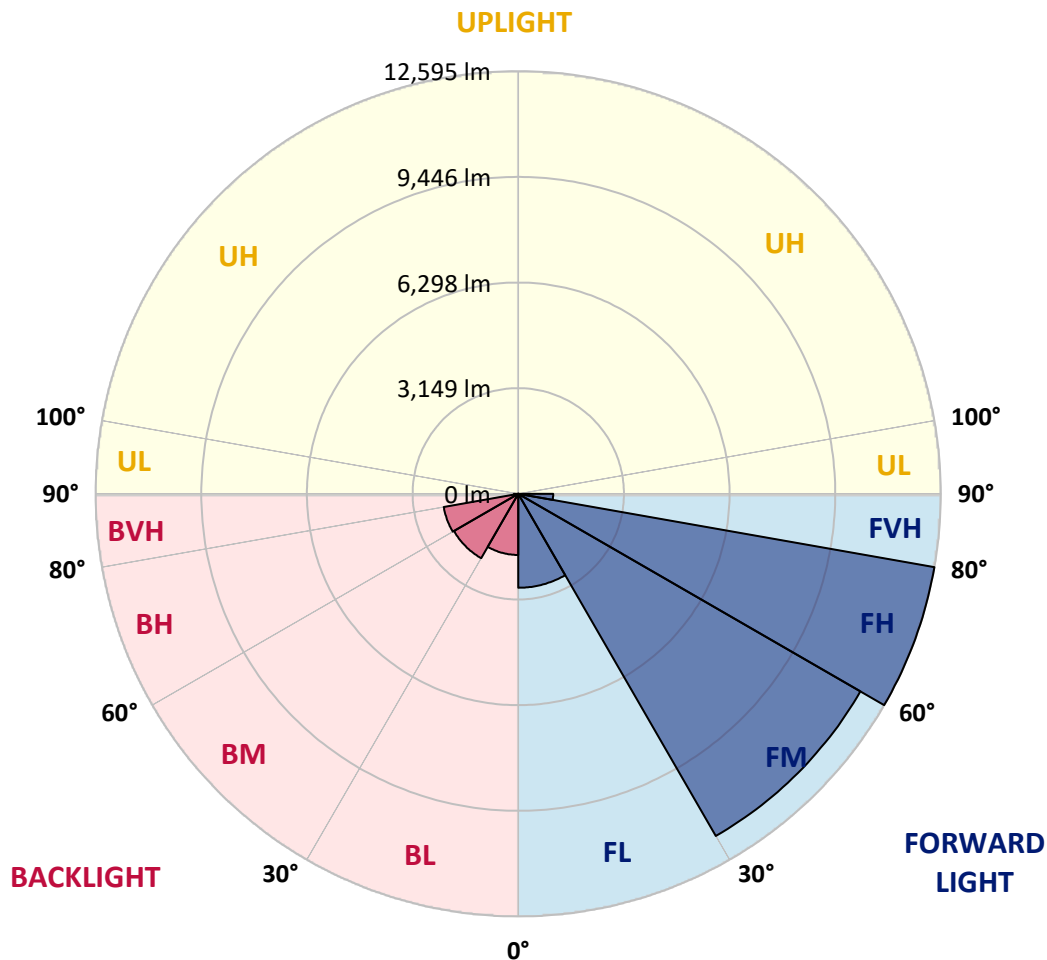


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2800.3	8.1			
FM (30°-60°)	11775.9	34.0			
FH (60°-80°)	12595.3	36.4			G5
FVH (80°-90°)	1040.6	3.0			G5
BL (0°-30°)	1822.5	5.3	B3/2500		
BM (30°-60°)	2214.0	6.4	B2/2500		
BH (60°-80°)	2255.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	126.3	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°	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1
2.5°	7786.0	7774.0	7809.9	7847.0	7861.3	7885.2	7921.1	7941.4	7940.2	7943.8	7931.9
5°	7269.5	7253.9	7325.7	7384.3	7496.7	7623.4	7777.6	7887.6	7890.0	7952.2	7968.9
7.5°	6780.5	6769.7	6852.2	6946.7	7077.0	7270.7	7520.6	7757.3	7771.7	7940.2	7998.8
10°	6388.3	6385.9	6466.0	6568.8	6720.7	6937.1	7224.0	7570.8	7592.3	7882.8	8003.6
12.5°	6082.2	6087.0	6156.3	6273.5	6433.7	6659.7	6970.6	7361.5	7396.2	7792.0	7976.1
15°	5856.2	5875.4	5931.6	6049.9	6207.8	6437.3	6756.6	7167.9	7220.5	7690.3	7960.6
17.5°	5727.1	5748.6	5788.1	5886.1	6034.4	6255.6	6558.1	7008.8	7056.7	7612.6	7961.8
20°	5688.8	5706.8	5729.5	5789.3	5914.8	6115.7	6401.4	6865.4	6916.8	7550.5	7973.7
22.5°	5764.2	5777.3	5779.7	5774.9	5851.5	6015.3	6287.9	6760.1	6815.1	7509.8	7982.1
25°	5925.6	5943.5	5930.4	5886.1	5861.0	5961.5	6229.3	6690.8	6745.8	7479.9	7965.3
27.5°	6168.3	6170.7	6159.9	6102.5	5984.2	5967.4	6211.3	6650.1	6702.8	7445.2	7930.7
30°	6498.3	6513.8	6494.7	6417.0	6223.3	6063.1	6232.9	6610.7	6658.5	7401.0	7874.5
32.5°	6884.5	6922.7	6921.6	6840.2	6562.9	6277.1	6321.3	6586.8	6623.8	7354.4	7806.3
35°	7285.0	7337.6	7435.7	7401.0	7057.9	6615.5	6491.1	6625.0	6650.1	7348.4	7758.5
37.5°	7701.1	7753.7	7955.8	8049.0	7647.3	7099.7	6758.9	6760.1	6772.1	7421.3	7754.9
40°	8136.3	8192.5	8496.2	8738.9	8411.3	7713.1	7190.6	7042.3	7029.2	7600.7	7825.5
42.5°	8746.1	8796.3	9161.0	9470.7	9259.0	8498.6	7787.2	7477.5	7450.0	7952.2	8051.4
45°	9517.3	9560.3	9947.7	10278.9	10170.1	9395.3	8536.9	8076.5	8071.8	8538.1	8509.4
47.5°	10434.3	10467.8	10815.7	11136.2	11175.6	10427.2	9479.0	9000.8	8923.1	9341.5	9218.4
50°	11389.7	11426.7	11663.5	12007.8	12300.7	11808.1	10691.4	10133.0	10029.0	10402.1	10222.7
52.5°	12022.1	12071.2	12276.8	12713.2	13565.7	13321.8	12125.0	11505.6	11347.8	11687.4	11549.9
55°	11740.0	11850.0	12164.4	12863.9	14577.2	15634.2	13893.3	13106.6	12928.4	13210.6	13129.3
57.5°	10457.1	10607.7	11036.9	12116.6	14719.5	17671.5	16566.8	14992.1	14866.6	14785.3	14822.3
60°	8112.4	8257.1	8789.1	10196.4	13728.3	19158.9	20590.1	17316.4	17134.7	16365.9	16399.4
62.5°	5741.5	5668.5	6033.2	7062.6	11155.3	19333.5	25168.2	20425.1	19827.3	18035.0	17888.0
65°	4378.4	4361.7	4525.5	4853.1	6756.6	17244.7	27895.4	25650.0	24716.2	19998.3	19651.5
67.5°	3597.7	3567.8	3729.2	4206.3	4350.9	11125.4	27955.2	31711.9	30794.9	22442.1	21691.3
70°	2958.0	2924.5	3075.2	3690.9	4020.9	5642.2	23527.8	35261.8	35212.8	25536.5	23231.3
71°	2651.9	2628.0	2808.6	3492.5	3950.4	4702.4	20313.9	35271.3	35418.4	26583.8	23140.4
72.5°	2159.3	2167.7	2359.0	3108.7	3897.8	4152.5	14929.9	33627.3	33938.2	27582.2	22314.2
75°	1434.8	1441.9	1693.0	2391.3	3779.4	4062.8	8205.7	28217.1	28788.6	26984.4	20361.7
77.5°	963.7	961.3	1132.3	1640.4	3292.8	4062.8	4811.3	21104.2	21731.9	21471.3	15697.5
80°	663.6	658.8	779.6	1132.3	2492.9	4111.8	3719.6	14790.1	14980.2	11595.3	6379.9
82.5°	406.5	410.1	509.3	799.9	1696.6	3700.5	3511.6	8064.6	7857.7	3252.1	1593.8
85°	233.1	232.0	325.2	541.6	1089.2	3123.0	3424.3	3470.9	3184.0	979.2	576.3
87.5°	83.7	89.7	174.6	300.1	624.1	2174.9	2905.4	1805.4	1627.3	442.4	260.6
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°	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1	7933.1
2.5°	7923.5	7930.7	7922.3	7874.5	7833.8	7768.1	7731.0	7679.6	7664.0	7656.9	7676.0
5°	7953.4	7955.8	7885.2	7759.7	7618.6	7452.4	7332.9	7185.8	7116.4	7086.6	7105.7
7.5°	7980.9	7970.1	7815.9	7575.6	7314.9	7025.6	6768.5	6533.0	6395.5	6339.3	6344.1
10°	7984.5	7939.0	7691.5	7319.7	6915.6	6491.1	6096.6	5733.1	5503.5	5354.1	5399.5
12.5°	7947.4	7870.9	7508.6	6988.5	6427.8	5849.1	5315.8	4770.6	4443.0	4291.1	4295.9
15°	7918.7	7780.0	7283.8	6598.7	5845.5	5079.1	4350.9	3710.1	3360.9	3205.5	3132.6
17.5°	7894.8	7682.0	7023.2	6159.9	5158.0	4185.9	3310.7	2739.2	2547.9	2502.5	2483.3
20°	7861.3	7578.0	6732.6	5651.8	4374.8	3186.4	2417.6	2135.4	2136.6	2189.2	2196.4
22.5°	7814.7	7459.6	6423.0	5081.5	3534.3	2320.7	1895.1	1813.8	1896.3	1996.7	2014.7
25°	7745.3	7319.7	6078.6	4451.4	2695.0	1783.9	1618.9	1615.3	1715.7	1821.0	1836.5
27.5°	7647.3	7136.8	5696.0	3774.6	1986.0	1516.1	1450.3	1475.4	1549.5	1626.1	1632.0
30°	7515.8	6923.9	5274.0	3060.8	1556.7	1349.9	1342.7	1365.4	1410.9	1464.7	1469.4
32.5°	7371.1	6707.5	4823.2	2369.8	1333.1	1260.2	1267.4	1278.1	1299.7	1321.2	1326.0
35°	7239.6	6486.3	4361.7	1800.6	1226.7	1201.6	1196.8	1194.4	1196.8	1189.7	1190.9
37.5°	7154.7	6303.4	3881.0	1433.6	1165.7	1150.2	1135.9	1117.9	1097.6	1085.6	1088.0
40°	7123.6	6167.1	3394.4	1238.7	1115.5	1104.8	1077.3	1039.0	1015.1	1007.9	1007.9
42.5°	7207.3	6096.6	2924.5	1140.6	1073.7	1055.7	1010.3	966.1	948.1	946.9	945.8
45°	7463.2	6125.3	2477.4	1086.8	1035.4	1000.7	941.0	903.9	891.9	894.3	893.1
47.5°	7922.3	6305.8	2094.8	1051.0	997.2	951.7	884.8	854.9	840.5	840.5	841.7
50°	8703.1	6727.9	1789.9	1021.1	964.9	906.3	844.1	807.1	787.9	786.7	786.7
52.5°	9840.1	7483.5	1599.8	996.0	929.0	865.6	803.5	756.8	734.1	729.3	726.9
55°	11265.3	8566.8	1547.2	979.2	881.2	821.4	754.4	707.8	682.7	671.9	670.8
57.5°	12859.1	9884.3	1651.2	958.9	832.2	768.8	700.6	656.4	630.1	616.9	615.8
60°	14472.0	11322.7	2075.6	930.2	791.5	711.4	645.6	605.0	578.7	564.3	562.0
62.5°	16087.3	12838.8	2942.5	927.8	762.8	656.4	589.4	554.8	529.7	514.1	510.5
65°	17909.5	14498.3	3927.7	991.2	753.3	606.2	532.1	504.6	483.0	468.7	467.5
67.5°	20001.8	16371.9	3833.2	1121.5	785.5	560.8	478.3	456.7	441.2	429.2	428.0
70°	20983.5	16078.9	2382.9	1213.6	831.0	516.5	426.8	411.3	399.3	391.0	387.4
71°	20572.2	15267.1	1997.9	1202.8	826.2	497.4	406.5	394.6	382.6	375.4	371.8
72.5°	19450.6	13923.2	1666.7	1119.1	772.4	462.7	380.2	368.3	357.5	349.1	346.7
75°	17453.9	12434.6	1334.3	894.3	615.8	391.0	333.6	320.4	312.1	307.3	302.5
77.5°	12830.4	8874.0	1031.8	706.6	453.1	319.2	284.6	275.0	266.6	259.5	255.9
80°	4915.3	3437.5	694.7	527.3	332.4	252.3	229.6	224.8	216.4	211.6	211.6
82.5°	1323.6	1027.1	370.6	319.2	222.4	184.1	175.8	173.4	166.2	156.6	157.8
85°	535.6	453.1	208.0	175.8	136.3	108.8	118.4	119.6	111.2	99.2	100.4
87.5°	235.5	192.5	116.0	77.7	59.8	41.8	53.8	53.8	49.0	40.7	37.1
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)