

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: P318092

Luminaire Tested: **GAN-SA8C-740-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55627 lumens
Efficiency: N/A
Efficacy: 125.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

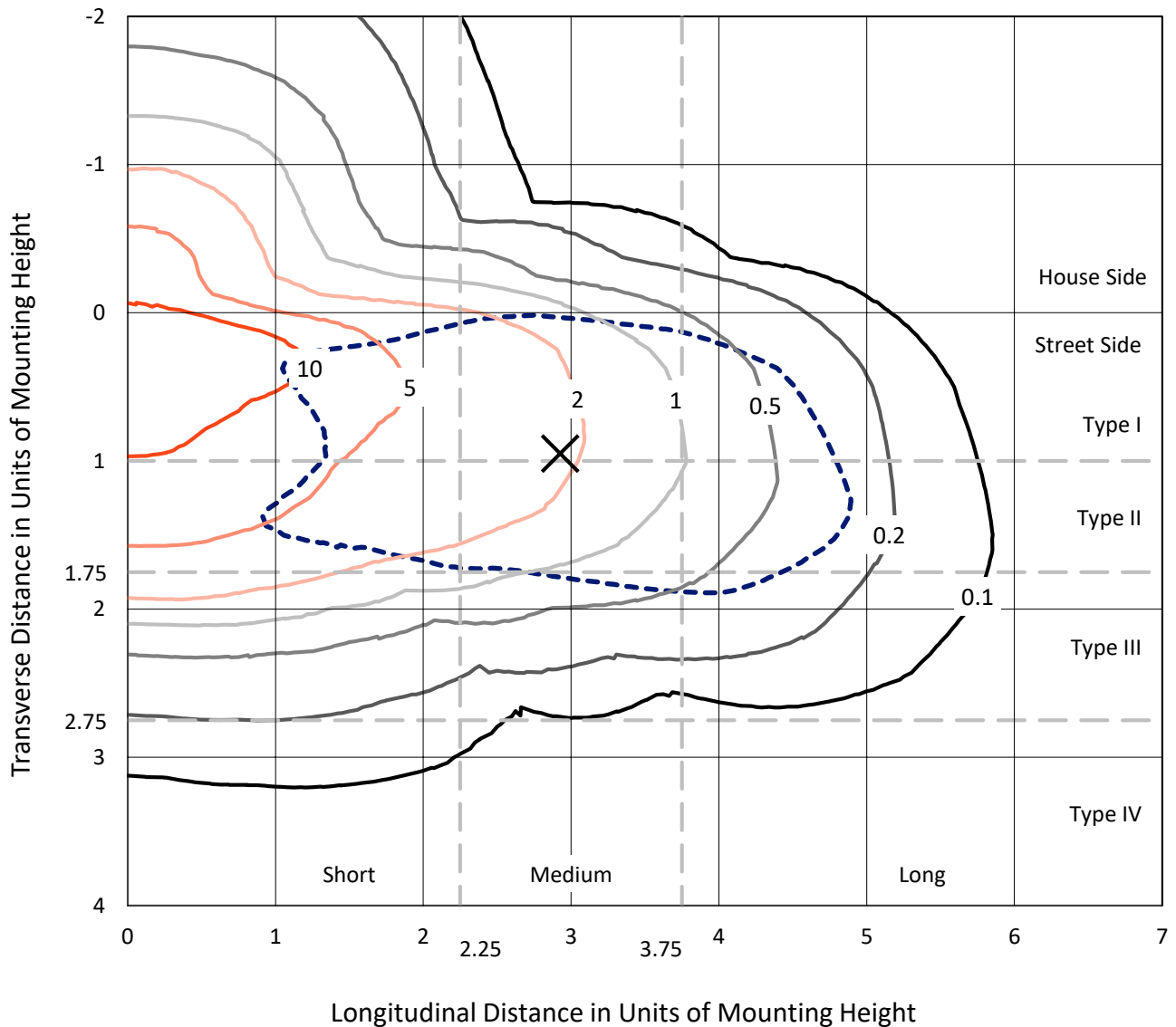
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

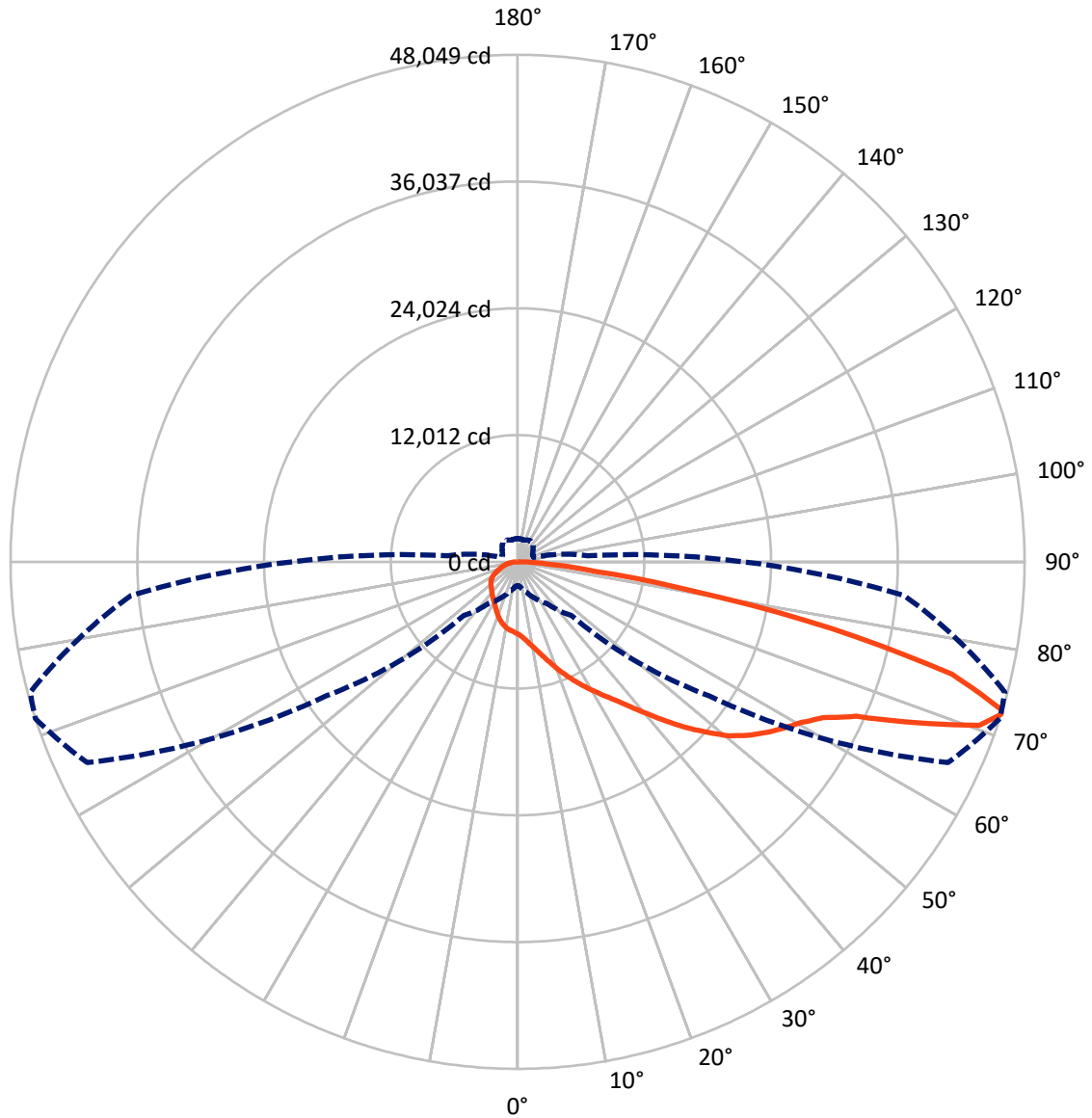
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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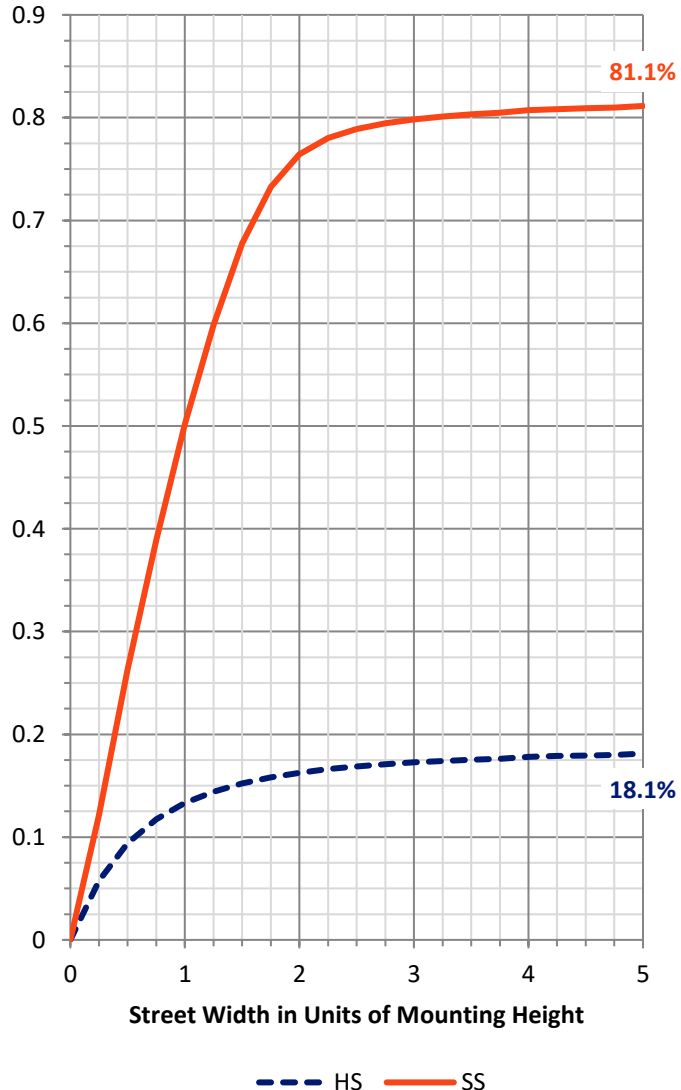
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10319.2	0.0	10319.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45307.8	0.0	45307.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	55627.0	0.0	55627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.7	1.2
10°-20°	2216.0	4.0
20°-30°	3883.1	7.0
30°-40°	5757.5	10.4
40°-50°	8420.8	15.1
50°-60°	11586.9	20.8
60°-70°	12899.6	23.2
70°-80°	8740.8	15.7
80°-90°	1436.6	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°	55627.0	100.0
0°-180°	55627.0	100.0

Coefficient of Utilization

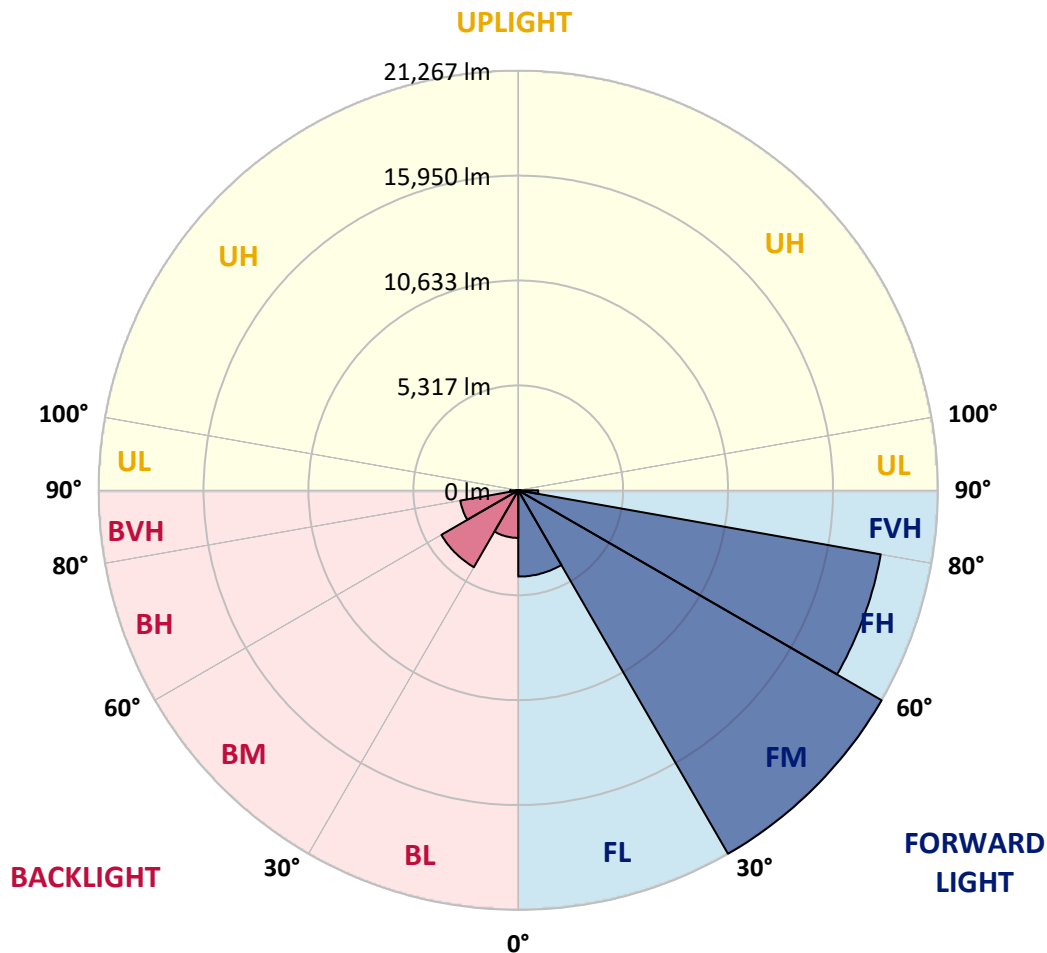


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4372.6	7.9			
FM (30°-60°)	21266.9	38.2			
FH (60°-80°)	18654.9	33.5			G5
FVH (80°-90°)	1013.4	1.8			G5
BL (0°-30°)	2412.3	4.3	B3/2500		
BM (30°-60°)	4498.2	8.1	B3/5000		
BH (60°-80°)	2985.5	5.4	B4/5000		G4/5000
BVH (80°-90°)	423.3	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6
2.5°	7559.9	7548.4	7508.2	7508.2	7431.6	7366.5	7243.9	7161.5	7063.8	7029.4	6914.4
5°	8291.6	8295.4	8245.6	8211.1	8098.1	7960.2	7751.5	7561.8	7372.2	7295.6	7060.0
7.5°	8906.4	8898.8	8885.3	8856.6	8751.3	8609.5	8328.0	8046.4	7766.8	7651.9	7245.8
10°	9301.0	9318.2	9329.7	9343.1	9299.1	9197.5	8931.3	8588.5	8222.6	8065.6	7468.0
12.5°	9500.2	9530.8	9584.4	9676.4	9749.2	9737.7	9544.2	9180.3	8745.5	8548.2	7745.7
15°	9617.0	9657.2	9741.5	9906.2	10111.2	10228.0	10176.3	9846.9	9362.3	9119.0	8084.7
17.5°	9689.8	9722.4	9852.6	10072.9	10377.4	10687.7	10823.7	10547.9	10059.5	9781.7	8473.5
20°	9739.6	9764.5	9927.3	10185.9	10580.4	11074.6	11453.8	11384.9	10827.5	10467.4	8879.6
22.5°	9850.7	9871.8	10026.9	10287.4	10724.1	11361.9	12061.0	12164.4	11637.7	11229.7	9314.4
25°	10161.0	10161.0	10291.2	10473.2	10883.1	11610.9	12574.3	13032.1	12465.1	11990.1	9716.6
27.5°	10752.8	10747.1	10795.0	10858.2	11168.4	11863.7	13032.1	13798.2	13323.2	12804.2	10107.3
30°	11453.8	11492.1	11497.9	11467.2	11612.8	12179.8	13455.4	14606.5	14187.1	13627.8	10507.7
32.5°	12356.0	12380.9	12352.1	12250.6	12229.6	12628.0	13871.0	15453.1	15121.7	14487.8	10873.5
35°	13501.4	13453.5	13363.4	13156.6	12959.3	13227.5	14346.0	16299.7	16171.4	15527.8	11377.2
37.5°	14729.1	14731.0	14619.9	14150.7	13878.7	13993.6	15001.1	17259.3	17441.2	16765.1	12022.7
40°	15713.6	15765.3	15834.3	15217.5	14865.1	15024.1	15834.3	18372.1	18942.9	18232.3	12863.5
42.5°	16401.2	16460.6	16655.9	16269.0	15903.2	16198.2	16814.9	19559.6	20628.4	19925.5	13848.0
45°	17129.0	17161.6	17299.5	17132.9	16899.2	17563.8	17920.1	20789.3	22411.6	21729.7	14949.4
47.5°	17895.2	17929.7	18071.4	17960.3	17837.7	18839.5	19073.1	21948.1	24120.1	23712.1	16125.4
50°	18841.4	18864.4	18998.4	18797.3	18835.6	19801.0	20103.6	23011.1	25911.0	25493.4	17305.3
52.5°	20132.3	20138.1	20323.9	20141.9	19961.9	20505.8	20990.4	24012.8	27314.9	27117.6	18485.1
55°	21143.6	21204.9	21814.0	21775.7	21672.3	21145.5	21731.6	24966.7	28567.6	28661.4	19737.8
57.5°	20498.2	20737.6	21971.1	22840.6	23687.2	22737.2	22733.4	26041.2	29732.1	30176.5	21114.9
60°	17952.6	18278.3	20095.9	22024.7	24673.6	25506.8	24813.5	27353.2	30908.1	31678.1	22840.6
62.5°	12821.4	13357.7	15820.9	18900.7	23321.4	27341.7	29046.4	29435.2	32507.4	33417.2	25083.5
65°	6481.6	6887.6	8952.4	12662.4	18632.6	26142.7	33647.1	33993.8	35286.6	36094.9	28536.9
67.5°	3938.0	4091.2	5098.7	7042.8	11423.2	20364.1	35148.7	41592.0	40665.0	41094.0	33461.3
70°	2901.8	3014.8	3643.0	4677.3	6569.7	11949.9	30540.4	47014.4	46405.3	46357.4	37100.5
72°	2260.1	2342.5	2897.9	3779.0	4803.7	7169.2	22135.8	45012.8	48048.7	47807.3	36767.2
72.5°	2143.3	2216.1	2721.7	3556.8	4539.4	6498.8	19902.5	43662.5	47929.9	47820.7	36336.2
75°	1687.4	1739.1	2015.0	2750.5	3553.0	3687.1	10906.0	33836.7	42519.0	44286.9	32681.7
77.5°	1396.3	1404.0	1549.5	2001.5	2769.6	2606.8	5357.3	23476.5	30446.5	32390.6	23150.9
80°	1137.7	1147.3	1216.3	1404.0	2095.4	1928.8	2543.6	13499.4	17046.7	17067.8	11009.5
82.5°	906.0	907.9	984.5	1026.6	1505.5	1379.1	1457.6	6337.9	7448.8	7165.4	3957.1
85°	637.8	624.4	961.5	842.8	984.5	884.9	804.5	2509.1	3079.9	2945.8	1239.2
87.5°	212.6	220.3	427.1	545.9	574.6	501.8	358.2	961.5	1162.6	1153.0	392.6
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°	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6	6843.6
2.5°	6878.0	6816.8	6726.7	6627.1	6548.6	6468.2	6408.8	6378.1	6343.7	6314.9	6349.4
5°	6950.8	6835.9	6644.4	6456.7	6318.8	6196.2	6108.1	6062.1	6020.0	5991.2	5995.1
7.5°	7069.6	6883.8	6562.0	6288.1	6096.6	5964.4	5874.4	5843.8	5816.9	5809.3	5818.9
10°	7196.0	6922.1	6452.8	6088.9	5870.6	5761.4	5721.2	5742.2	5761.4	5778.6	5797.8
12.5°	7339.6	6956.6	6293.9	5855.2	5669.5	5627.3	5667.5	5759.5	5826.5	5866.7	5891.6
15°	7527.4	6987.2	6110.0	5621.6	5497.1	5545.0	5681.0	5839.9	5956.8	6031.5	6043.0
17.5°	7699.7	6985.3	5874.4	5386.0	5357.3	5497.1	5702.0	5926.1	6083.2	6188.5	6209.6
20°	7877.9	6933.6	5600.5	5156.1	5215.5	5445.4	5711.6	5981.7	6171.3	6293.9	6322.6
22.5°	8044.5	6843.6	5299.8	4947.4	5096.8	5376.4	5675.2	5949.1	6138.7	6238.3	6269.0
25°	8157.5	6686.5	4995.3	4771.2	4991.4	5292.1	5556.5	5776.7	5918.5	5968.3	5975.9
27.5°	8215.0	6481.6	4707.9	4617.9	4882.2	5154.2	5336.2	5445.4	5485.6	5481.8	5474.1
30°	8222.6	6211.5	4460.9	4493.4	4755.8	4951.2	5037.4	5016.3	4964.6	4876.5	4884.2
32.5°	8197.7	5907.0	4254.0	4374.7	4594.9	4704.1	4707.9	4606.4	4468.5	4328.7	4290.4
35°	8205.4	5608.2	4072.0	4240.6	4399.6	4447.5	4403.4	4254.0	4066.3	3886.3	3848.0
37.5°	8289.7	5347.7	3915.0	4085.5	4183.1	4194.6	4131.4	3974.4	3836.5	3660.2	3644.9
40°	8490.8	5161.9	3765.6	3911.2	3966.7	3972.5	3882.4	3771.3	3782.8	3689.0	3687.1
42.5°	8852.8	5081.4	3633.4	3729.2	3763.7	3775.2	3706.2	3635.3	3734.9	3673.7	3652.6
45°	9320.1	5100.6	3522.3	3551.1	3614.3	3667.9	3625.8	3539.6	3577.9	3311.7	3223.5
47.5°	9860.3	5223.2	3434.2	3397.8	3507.0	3608.5	3543.4	3413.2	3277.2	3012.9	2963.1
50°	10492.3	5412.8	3353.8	3246.5	3390.2	3528.1	3463.0	3277.2	3072.2	2943.9	2926.7
52.5°	11151.2	5644.6	3273.3	3079.9	3242.7	3466.8	3434.2	3246.5	2993.7	2867.3	2844.3
55°	11898.2	5878.2	3171.8	2886.4	3083.7	3438.1	3420.8	3135.4	2934.3	2863.5	2846.2
57.5°	12827.1	6144.5	3037.8	2685.3	2934.3	3334.6	3281.0	3068.4	2873.0	2819.4	2813.7
60°	14037.7	6537.1	2844.3	2470.8	2752.4	3175.7	3164.2	2970.7	2775.4	2737.0	2729.4
62.5°	15853.4	7186.4	2578.1	2256.3	2549.3	2905.6	3010.9	2838.6	2671.9	2670.0	2673.8
65°	18669.0	8163.3	2288.9	2068.6	2344.4	2677.7	2832.8	2702.6	2566.6	2604.9	2610.6
67.5°	21932.8	8973.4	2005.4	1884.7	2135.6	2461.2	2671.9	2566.6	2426.8	2526.4	2528.3
70°	23018.8	8249.4	1756.4	1702.8	1919.2	2252.5	2497.6	2417.2	2275.4	2375.0	2365.5
72°	21421.4	6659.7	1595.5	1564.8	1756.4	2080.1	2342.5	2277.4	2137.5	2204.6	2179.7
72.5°	20917.6	6349.4	1555.3	1530.4	1712.3	2036.0	2302.3	2242.9	2103.1	2160.5	2137.5
75°	18659.4	5514.3	1336.9	1342.7	1494.0	1821.5	2076.2	2057.1	1913.4	1919.2	1911.5
77.5°	13533.9	4043.3	1126.2	1164.5	1271.8	1601.2	1848.3	1836.8	1679.8	1651.0	1645.3
80°	6280.5	2062.8	917.5	934.7	1045.8	1338.8	1576.3	1561.0	1434.6	1398.2	1377.1
82.5°	2150.9	980.7	689.5	701.0	810.2	1078.3	1367.6	1358.0	1252.6	1181.8	1137.7
85°	768.1	488.4	482.7	471.2	578.4	848.5	1191.4	1139.6	984.5	838.9	835.1
87.5°	249.0	208.8	249.0	247.1	337.1	574.6	865.7	737.4	714.4	593.8	582.3
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)