

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: P318063

Luminaire Tested: **GAN-SA9D-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318063
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-SA9D-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61992 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

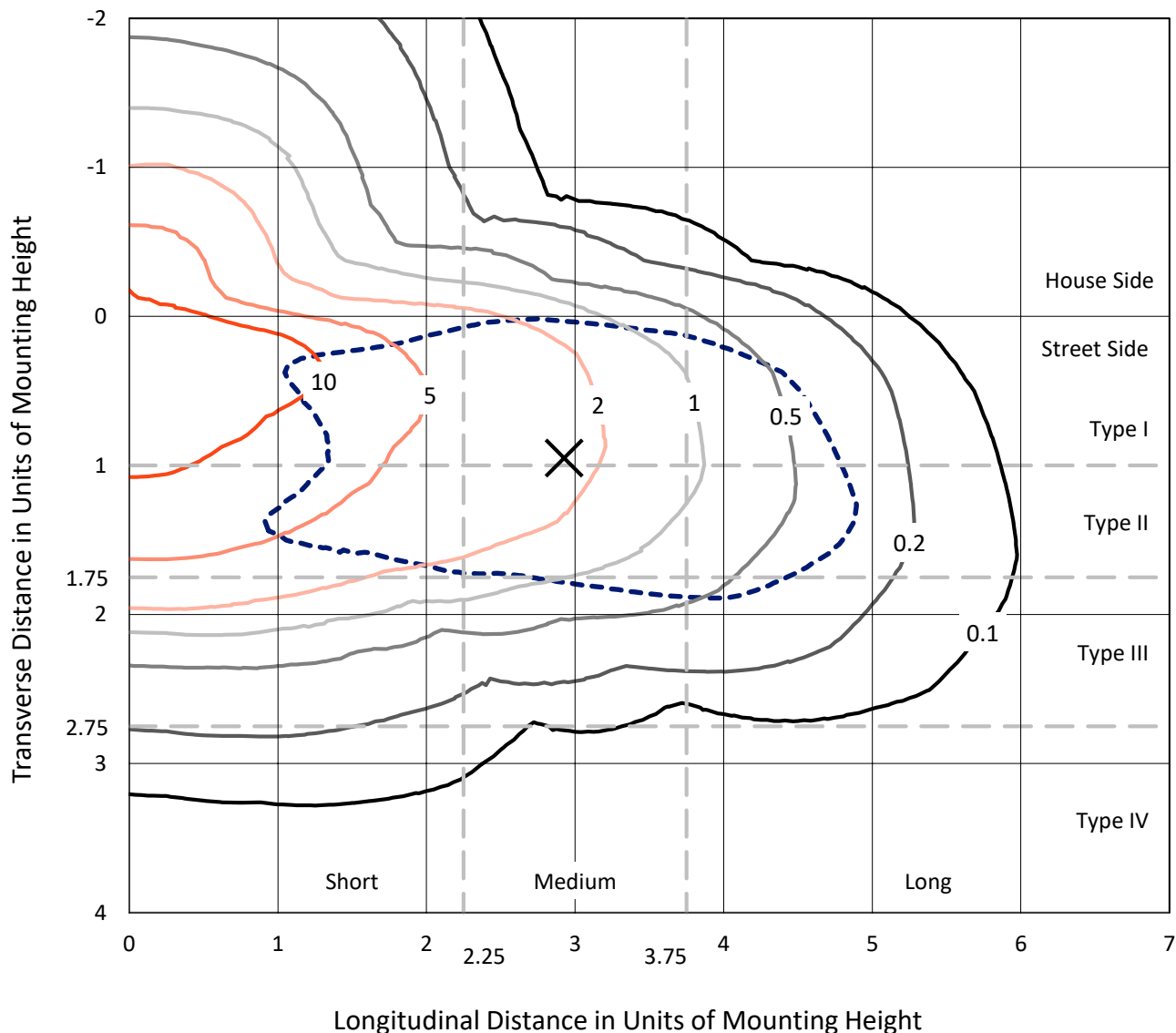
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

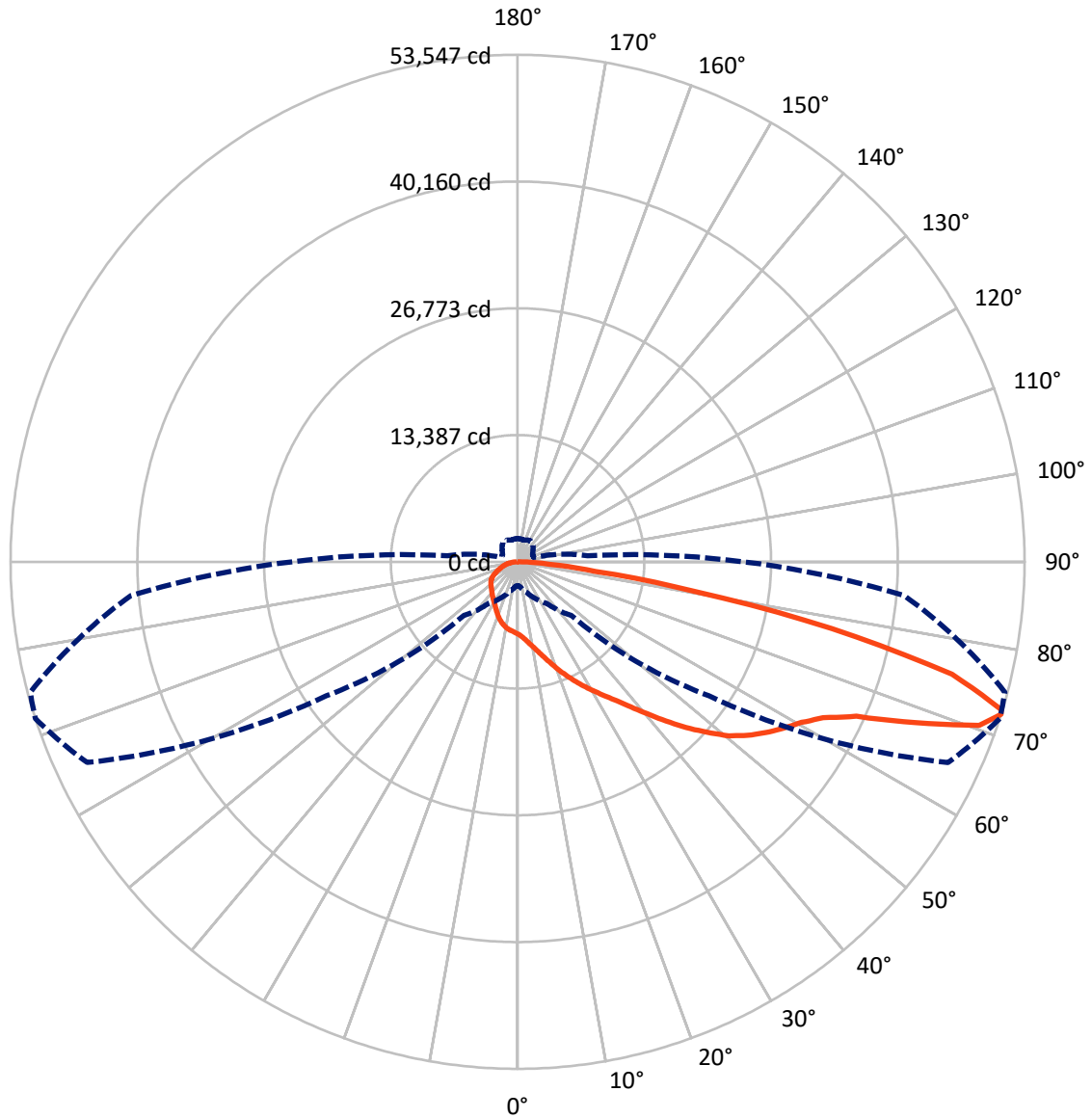
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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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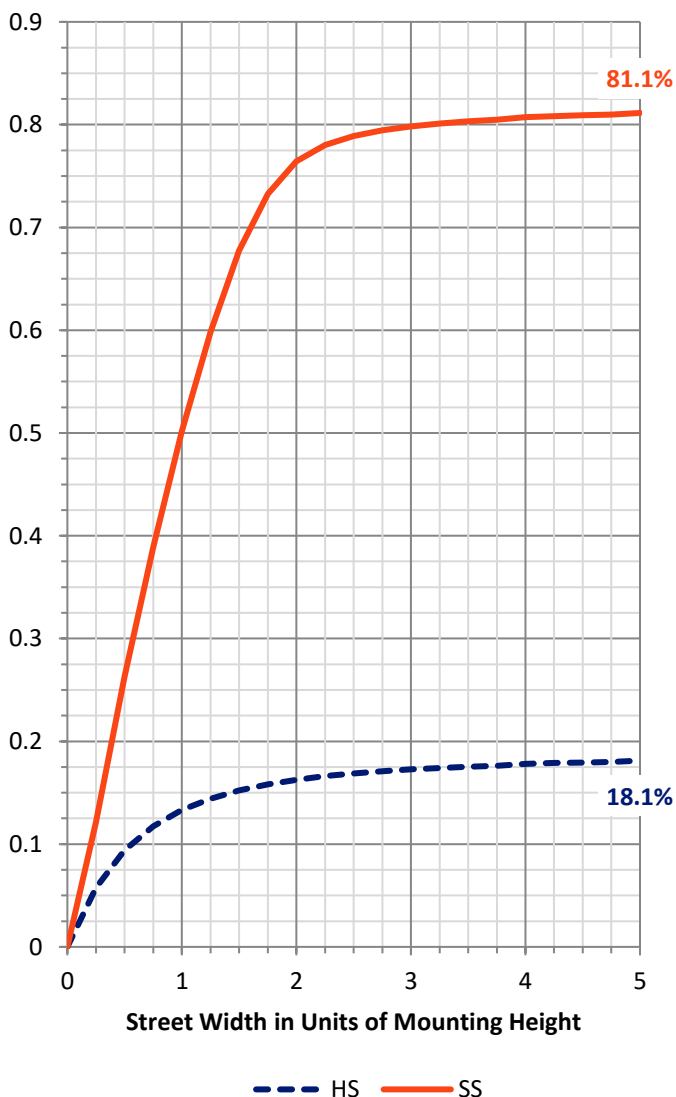
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11499.9	0.0	11499.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	50492.1	0.0	50492.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	61992.0	0.0	61992.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.2	1.2
10°-20°	2469.6	4.0
20°-30°	4327.4	7.0
30°-40°	6416.2	10.4
40°-50°	9384.3	15.1
50°-60°	12912.7	20.8
60°-70°	14375.7	23.2
70°-80°	9740.9	15.7
80°-90°	1601.0	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°	61992.0	100.0
0°-180°	61992.0	100.0

Coefficient of Utilization

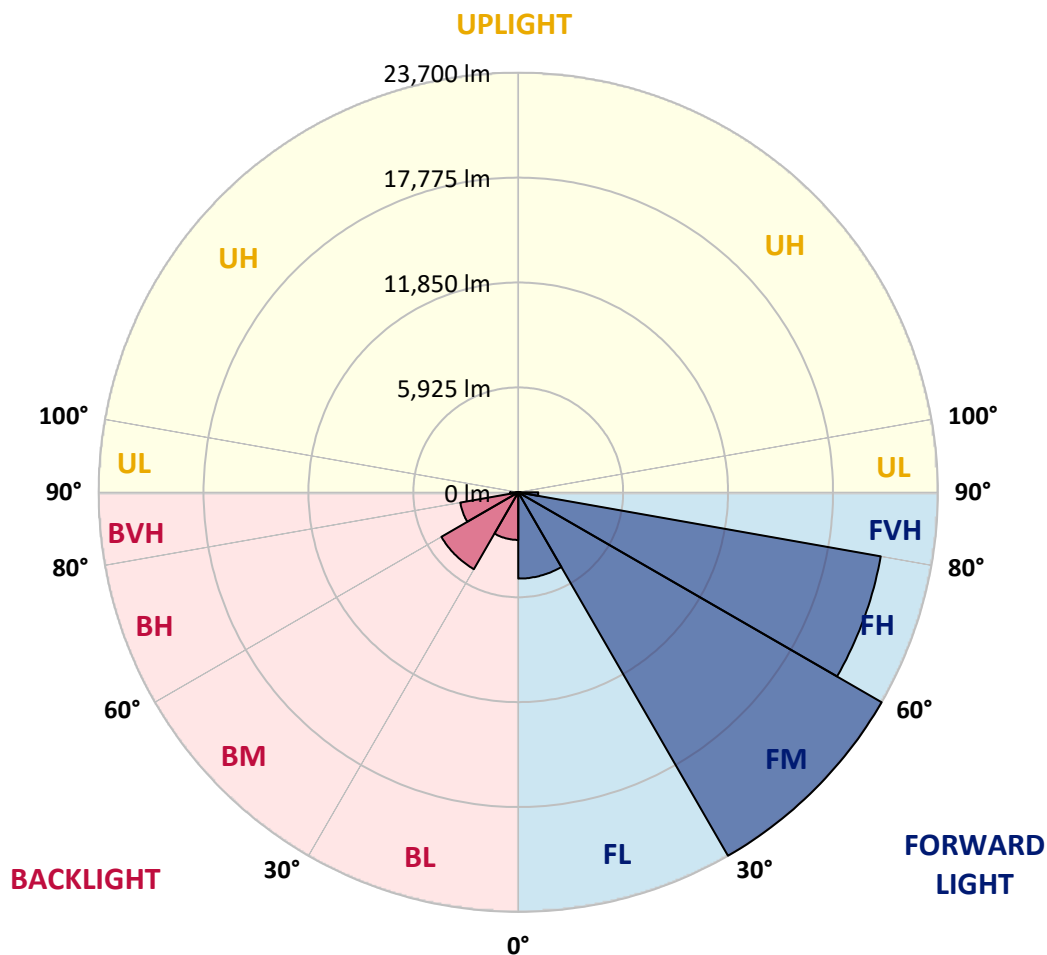


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4872.9	7.9			
FM (30°-60°)	23700.3	38.2			
FH (60°-80°)	20789.5	33.5			G5
FVH (80°-90°)	1129.3	1.8			G5
BL (0°-30°)	2688.3	4.3	B4/5000		
BM (30°-60°)	5012.9	8.1	B4/8500		
BH (60°-80°)	3327.1	5.4	B4/5000		G4/5000
BVH (80°-90°)	471.7	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°	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6
2.5°	8424.9	8412.1	8367.3	8367.3	8281.9	8209.4	8072.7	7981.0	7872.1	7833.7	7705.6
5°	9240.3	9244.6	9189.1	9150.7	9024.7	8871.1	8638.4	8427.1	8215.8	8130.4	7867.8
7.5°	9925.5	9917.0	9902.0	9870.0	9752.6	9594.7	9280.9	8967.1	8655.5	8527.4	8074.9
10°	10365.2	10384.4	10397.2	10412.2	10363.1	10250.0	9953.3	9571.2	9163.5	8988.5	8322.5
12.5°	10587.2	10621.4	10681.1	10783.6	10864.7	10851.9	10636.3	10230.7	9746.2	9526.4	8632.0
15°	10717.4	10762.2	10856.2	11039.7	11268.1	11398.3	11340.7	10973.6	10433.5	10162.4	9009.8
17.5°	10798.5	10834.8	10980.0	11225.4	11564.8	11910.6	12062.2	11754.8	11210.5	10901.0	9443.1
20°	10854.0	10881.8	11063.2	11351.4	11791.1	12341.8	12764.4	12687.6	12066.4	11665.1	9895.6
22.5°	10977.8	11001.3	11174.2	11464.5	11951.2	12662.0	13441.1	13556.3	12969.3	12514.7	10380.2
25°	11323.6	11323.6	11468.8	11671.5	12128.3	12939.4	14013.1	14523.3	13891.4	13362.1	10828.4
27.5°	11983.2	11976.8	12030.1	12100.6	12446.4	13221.2	14523.3	15377.1	14847.7	14269.3	11263.9
30°	12764.4	12807.1	12813.5	12779.4	12941.6	13573.4	14995.0	16277.8	15810.4	15187.1	11710.0
32.5°	13769.8	13797.5	13765.5	13652.4	13628.9	14072.9	15458.2	17221.3	16852.0	16145.5	12117.7
35°	15046.2	14992.9	14892.5	14662.0	14442.1	14741.0	15987.5	18164.7	18021.7	17304.5	12679.0
37.5°	16414.4	16416.6	16292.8	15769.8	15466.7	15594.8	16717.5	19234.1	19436.9	18683.4	13398.4
40°	17511.6	17569.2	17646.1	16958.7	16566.0	16743.2	17646.1	20474.3	21110.4	20318.5	14335.4
42.5°	18277.9	18344.0	18561.8	18130.6	17722.9	18051.6	18738.9	21797.7	22988.8	22205.4	15432.6
45°	19089.0	19125.3	19279.0	19093.3	18832.9	19573.5	19970.6	23168.1	24976.0	24216.1	16659.9
47.5°	19942.8	19981.2	20139.2	20015.4	19878.8	20995.1	21255.5	24459.4	26880.0	26425.3	17970.5
50°	20997.3	21022.9	21172.3	20948.2	20990.9	22066.6	22403.9	25644.1	28875.8	28410.4	19285.4
52.5°	22435.9	22442.3	22649.4	22446.6	22245.9	22852.2	23392.2	26760.5	30440.4	30220.5	20600.2
55°	23562.9	23631.3	24310.0	24267.3	24152.1	23565.1	24218.2	27823.4	31836.3	31940.9	21996.2
57.5°	22843.6	23110.4	24485.1	25454.1	26397.6	25338.9	25334.6	29020.9	33134.1	33629.3	23530.9
60°	20006.8	20369.7	22395.4	24544.8	27496.9	28425.4	27652.7	30483.1	34444.7	35302.8	25454.1
62.5°	14288.5	14886.1	17631.1	21063.4	25989.9	30470.2	32370.0	32803.3	36227.0	37240.9	27953.6
65°	7223.2	7675.7	9976.7	14111.3	20764.6	29134.0	37497.1	37883.4	39324.2	40225.0	31802.2
67.5°	4388.6	4559.3	5682.1	7848.6	12730.3	22694.2	39170.5	46351.1	45318.0	45796.1	37290.0
70°	3233.8	3359.7	4059.9	5212.5	7321.4	13317.3	34034.9	52393.9	51715.1	51661.7	41345.6
72°	2518.7	2610.5	3229.5	4211.4	5353.4	7989.5	24668.6	50163.3	53546.5	53277.6	40974.2
72.5°	2388.5	2469.6	3033.2	3963.8	5058.8	7242.4	22179.8	48658.5	53414.2	53292.5	40493.9
75°	1880.5	1938.1	2245.5	3065.2	3959.5	4108.9	12153.9	37708.4	47384.2	49354.3	36421.3
77.5°	1556.1	1564.6	1726.8	2230.6	3086.5	2905.1	5970.2	26162.8	33930.3	36096.8	25799.9
80°	1267.9	1278.6	1355.4	1564.6	2335.2	2149.5	2834.6	15044.1	18997.2	19020.7	12269.2
82.5°	1009.6	1011.8	1097.1	1144.1	1677.7	1536.9	1624.4	7063.1	8301.1	7985.2	4409.9
85°	710.8	695.9	1071.5	939.2	1097.1	986.1	896.5	2796.2	3432.3	3282.9	1381.0
87.5°	236.9	245.5	476.0	608.3	640.4	559.2	399.2	1071.5	1295.7	1285.0	437.6
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°	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6	7626.6
2.5°	7665.1	7596.8	7496.4	7385.4	7297.9	7208.3	7142.1	7107.9	7069.5	7037.5	7075.9
5°	7746.2	7618.1	7404.6	7195.5	7041.8	6905.2	6807.0	6755.7	6708.8	6676.8	6681.0
7.5°	7878.5	7671.5	7312.9	7007.6	6794.2	6646.9	6546.6	6512.4	6482.5	6474.0	6484.7
10°	8019.4	7714.1	7191.2	6785.6	6542.3	6420.6	6375.8	6399.3	6420.6	6439.8	6461.2
12.5°	8179.5	7752.6	7014.0	6525.2	6318.2	6271.2	6316.0	6418.5	6493.2	6538.0	6565.8
15°	8388.7	7786.7	6809.1	6264.8	6126.1	6179.4	6331.0	6508.1	6638.4	6721.6	6734.4
17.5°	8580.8	7784.6	6546.6	6002.3	5970.2	6126.1	6354.5	6604.2	6779.2	6896.6	6920.1
20°	8779.3	7727.0	6241.3	5746.1	5812.3	6068.4	6365.1	6666.1	6877.4	7014.0	7046.0
22.5°	8965.0	7626.6	5906.2	5513.5	5680.0	5991.6	6324.6	6629.8	6841.1	6952.1	6986.3
25°	9090.9	7451.6	5566.8	5317.1	5562.6	5897.7	6192.2	6437.7	6595.7	6651.2	6659.7
27.5°	9154.9	7223.2	5246.6	5146.3	5440.9	5744.0	5946.8	6068.4	6113.3	6109.0	6100.5
30°	9163.5	6922.2	4971.3	5007.6	5300.0	5517.7	5613.8	5590.3	5532.7	5434.5	5443.0
32.5°	9135.7	6582.9	4740.8	4875.2	5120.7	5242.4	5246.6	5133.5	4979.8	4824.0	4781.3
35°	9144.3	6249.9	4538.0	4725.8	4903.0	4956.4	4907.3	4740.8	4531.6	4330.9	4288.2
37.5°	9238.2	5959.6	4363.0	4552.9	4661.8	4674.6	4604.2	4429.1	4275.4	4079.1	4062.0
40°	9462.3	5752.5	4196.5	4358.7	4420.6	4427.0	4326.7	4202.9	4215.7	4111.1	4108.9
42.5°	9865.7	5662.9	4049.2	4155.9	4194.3	4207.1	4130.3	4051.3	4162.3	4094.0	4070.5
45°	10386.6	5684.2	3925.4	3957.4	4027.8	4087.6	4040.6	3944.6	3987.3	3690.6	3592.4
47.5°	10988.5	5820.8	3827.2	3786.6	3908.3	4021.4	3948.9	3803.7	3652.2	3357.6	3302.1
50°	11692.9	6032.1	3737.5	3618.0	3778.1	3931.8	3859.2	3652.2	3423.8	3280.8	3261.5
52.5°	12427.2	6290.4	3647.9	3432.3	3613.7	3863.5	3827.2	3618.0	3336.3	3195.4	3169.8
55°	13259.6	6550.8	3534.8	3216.7	3436.6	3831.5	3812.2	3494.2	3270.1	3191.1	3171.9
57.5°	14294.9	6847.5	3385.3	2992.6	3270.1	3716.2	3656.4	3419.5	3201.8	3142.0	3135.6
60°	15643.9	7285.1	3169.8	2753.5	3067.3	3539.0	3526.2	3310.6	3092.9	3050.2	3041.7
62.5°	17667.4	8008.7	2873.1	2514.5	2841.0	3238.1	3355.5	3163.4	2977.7	2975.5	2979.8
65°	20805.1	9097.3	2550.7	2305.3	2612.7	2984.1	3157.0	3011.8	2860.3	2902.9	2909.3
67.5°	24442.4	10000.2	2234.8	2100.4	2380.0	2742.9	2977.7	2860.3	2704.4	2815.4	2817.6
70°	25652.6	9193.4	1957.4	1897.6	2138.8	2510.2	2783.4	2693.8	2535.8	2646.8	2636.1
72°	23872.5	7421.7	1778.1	1743.9	1957.4	2318.1	2610.5	2537.9	2382.1	2456.8	2429.1
72.5°	23311.1	7075.9	1733.2	1705.5	1908.3	2269.0	2565.7	2499.5	2343.7	2407.7	2382.1
75°	20794.5	6145.3	1489.9	1496.3	1664.9	2029.9	2313.8	2292.5	2132.4	2138.8	2130.2
77.5°	15082.5	4506.0	1255.1	1297.8	1417.3	1784.5	2059.8	2047.0	1872.0	1840.0	1833.6
80°	6999.1	2298.9	1022.4	1041.6	1165.4	1492.0	1756.7	1739.6	1598.8	1558.2	1534.7
82.5°	2397.1	1092.9	768.4	781.2	902.9	1201.7	1524.0	1513.4	1396.0	1317.0	1267.9
85°	855.9	544.3	537.9	525.1	644.6	945.6	1327.7	1270.0	1097.1	934.9	930.6
87.5°	277.5	232.7	277.5	275.4	375.7	640.4	964.8	821.8	796.2	661.7	648.9
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)