

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: P320976

Luminaire Tested: **GAN-SA2D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16287 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

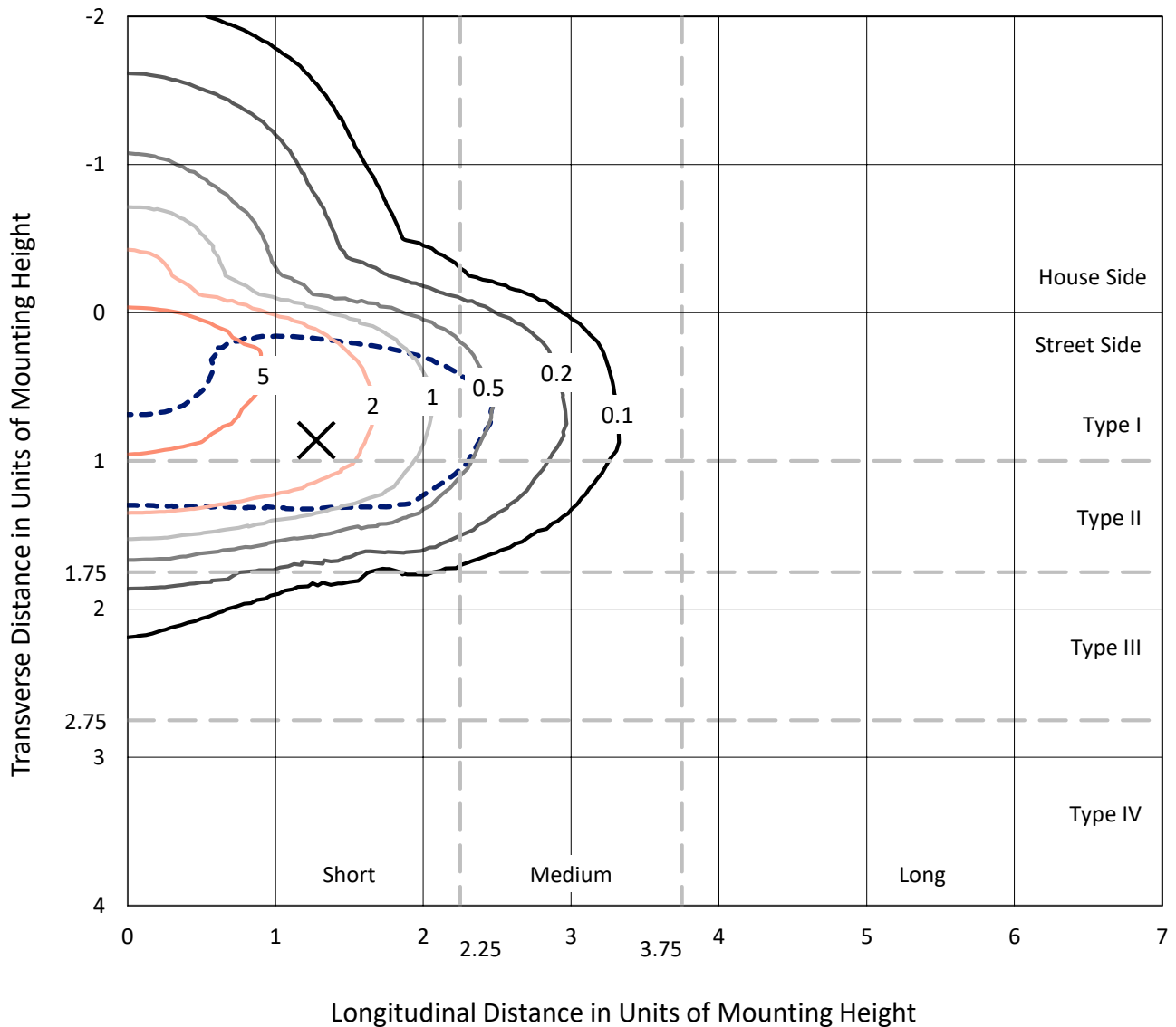
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

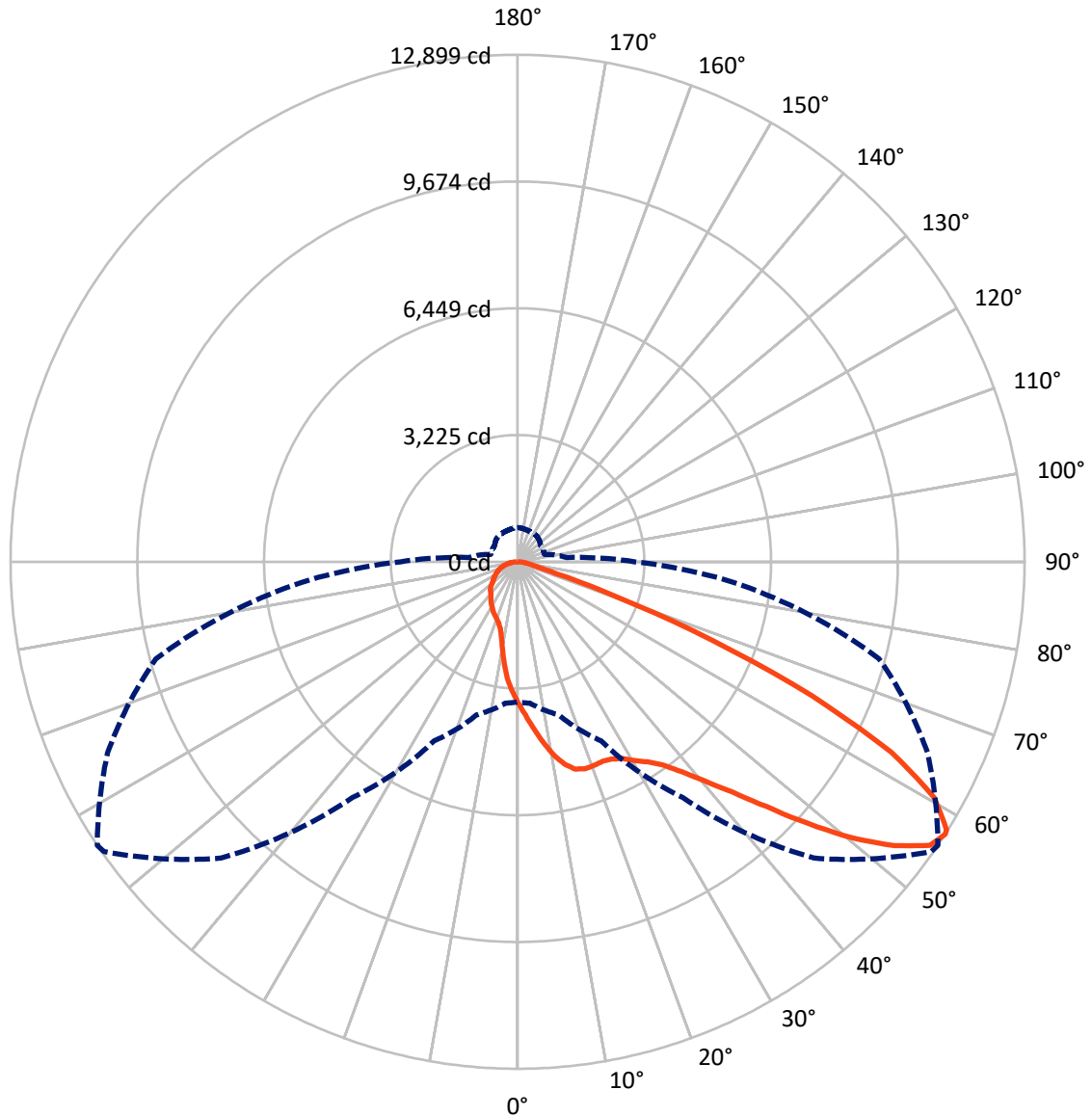
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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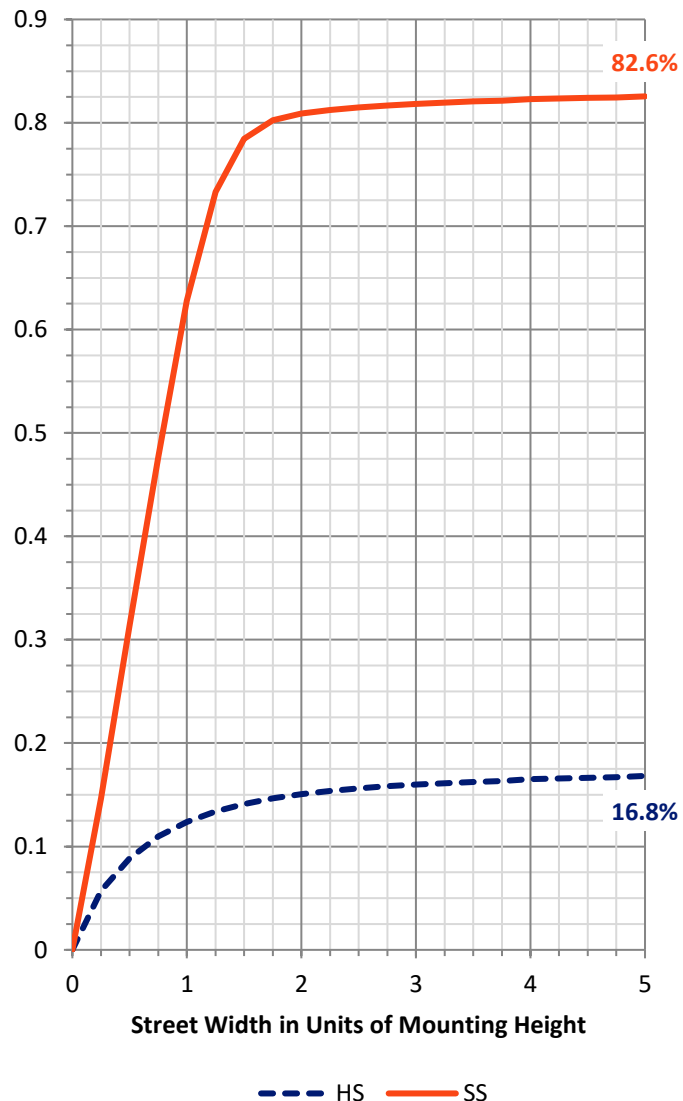
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2807.5	0.0	2807.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	13479.5	0.0	13479.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	16287.0	0.0	16287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.1	2.1
10°-20°	975.6	6.0
20°-30°	1589.1	9.8
30°-40°	2375.5	14.6
40°-50°	3603.2	22.1
50°-60°	4038.5	24.8
60°-70°	2385.3	14.6
70°-80°	781.5	4.8
80°-90°	193.1	1.2
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°	16287.0	100.0
0°-180°	16287.0	100.0

Coefficient of Utilization



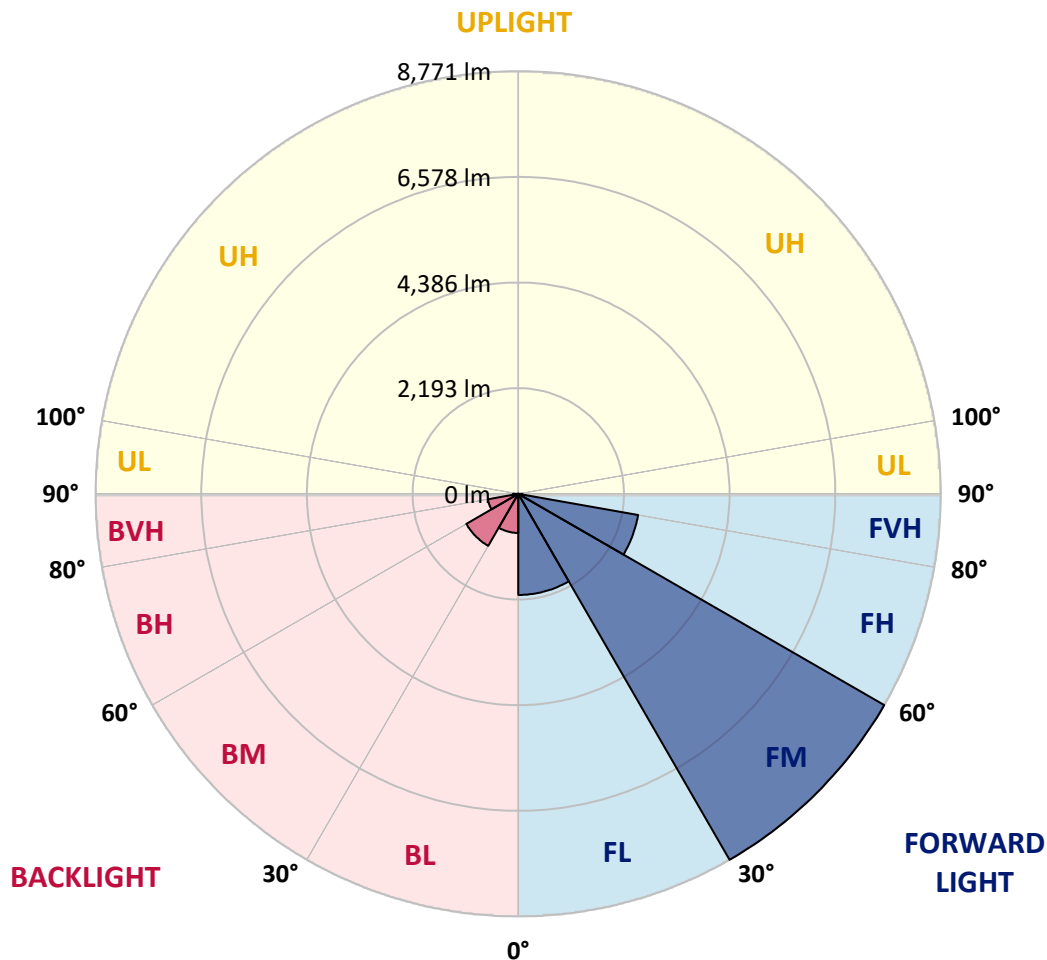
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2098.0	12.9			
FM (30°-60°)	8771.1	53.9			
FH (60°-80°)	2525.3	15.5			G2/5000
FVH (80°-90°)	85.0	0.5			G1/100
BL (0°-30°)	811.8	5.0	B2/1000		
BM (30°-60°)	1246.2	7.7	B2/2500		
BH (60°-80°)	641.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	108.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5
2.5°	4148.1	4186.2	4169.4	4111.2	4066.4	4003.2	3932.6	3911.4	3836.9	3753.5	3653.3
5°	4804.7	4785.7	4758.2	4667.6	4571.8	4460.5	4283.6	4255.6	4089.9	3901.3	3702.0
7.5°	5178.6	5176.9	5160.7	5107.5	5020.2	4874.7	4661.4	4628.4	4378.2	4074.8	3765.8
10°	5124.3	5120.4	5147.2	5202.7	5229.0	5198.7	5019.1	4986.0	4678.7	4266.8	3839.7
12.5°	4815.9	4818.1	4861.2	4977.6	5136.0	5326.4	5297.2	5281.0	4990.5	4484.0	3929.3
15°	4575.8	4580.8	4614.9	4716.3	4903.2	5248.6	5466.3	5471.9	5292.2	4723.5	4033.9
17.5°	4470.5	4481.2	4496.8	4567.9	4739.2	5093.5	5506.6	5536.8	5556.4	4972.0	4134.7
20°	4504.1	4514.2	4518.7	4564.0	4704.5	4999.5	5478.6	5532.9	5759.0	5206.0	4235.4
22.5°	4654.7	4660.8	4663.6	4675.4	4784.5	5026.3	5460.1	5517.2	5905.7	5415.9	4311.6
25°	4904.3	4899.8	4881.9	4866.8	4940.1	5132.7	5502.7	5557.0	6024.9	5606.2	4361.4
27.5°	5203.2	5197.6	5162.9	5121.5	5163.5	5298.4	5625.2	5668.3	6131.8	5784.2	4386.6
30°	5562.0	5547.4	5482.0	5432.7	5448.9	5546.9	5827.3	5866.5	6296.9	5986.3	4411.2
32.5°	5976.8	5961.1	5866.5	5784.8	5784.8	5866.5	6035.5	6068.0	6436.8	6214.6	4450.9
35°	6496.2	6476.6	6353.4	6216.3	6177.7	6219.1	6319.3	6342.3	6688.7	6502.3	4523.1
37.5°	7108.5	7082.2	6922.7	6739.1	6654.6	6652.3	6724.5	6771.6	7091.2	6880.2	4645.7
40°	7722.5	7704.1	7564.7	7420.3	7254.6	7201.4	7312.8	7327.4	7617.3	7349.2	4802.4
42.5°	8197.2	8193.8	8168.1	8187.1	8017.5	7910.0	7997.4	8009.1	8259.9	7856.9	4969.2
45°	8447.9	8453.5	8578.4	8854.9	8917.6	8839.2	8882.3	8885.6	8994.2	8369.0	5122.1
47.5°	8247.0	8276.1	8591.8	9210.3	9723.6	9983.8	9912.2	9953.6	9706.2	8809.0	5241.8
50°	7463.9	7499.8	8037.1	9051.9	10099.7	11091.5	11054.0	11044.5	10280.5	9131.4	5306.8
52.5°	6493.9	6521.9	6965.2	8228.5	9823.8	11703.9	12048.1	11998.8	10791.0	9372.6	5319.1
55°	5016.8	5060.5	5485.3	6585.2	8707.7	11469.9	12779.1	12734.9	11256.1	9499.1	5304.5
57°	3566.6	3612.5	4034.5	5025.8	7325.1	10660.0	12851.9	12898.9	11507.4	9520.4	5320.8
57.5°	3182.6	3229.6	3647.7	4610.5	6894.1	10367.2	12789.2	12867.5	11552.7	9517.0	5329.7
60°	1602.5	1620.4	1886.8	2573.6	4358.0	8381.3	11971.4	12173.5	11593.6	9352.5	5368.3
62.5°	996.3	983.4	975.0	1185.5	2120.2	5558.1	10283.8	10672.9	10811.7	8953.9	5274.9
65°	876.0	851.9	759.5	742.8	936.4	2699.6	7744.4	8228.5	9140.9	8325.9	5052.1
67.5°	822.8	799.3	695.2	632.5	633.1	1070.2	4808.0	5353.2	7120.8	7264.1	4526.5
70°	767.9	746.7	649.3	575.4	539.0	592.7	2212.0	2625.7	4641.8	5709.8	3783.2
72.5°	697.4	682.9	590.5	514.4	475.8	443.9	846.9	1000.2	2687.2	3834.7	2627.4
75°	623.5	610.1	531.2	458.4	411.4	349.3	476.9	513.8	1365.2	1961.8	1293.5
77.5°	542.4	534.5	472.4	405.2	367.7	289.4	337.5	355.4	585.5	841.3	648.7
80°	431.5	446.7	413.1	361.0	326.3	231.7	239.0	250.8	340.9	410.8	368.3
82.5°	281.0	307.3	323.5	293.3	268.7	182.5	171.8	176.9	222.2	250.8	160.1
85°	117.0	131.5	212.7	192.0	178.6	133.2	115.3	117.5	137.7	142.7	65.5
87.5°	52.1	55.4	93.5	87.9	75.6	45.9	49.3	53.7	73.3	69.4	25.2
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°	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5	3612.5
2.5°	3615.8	3568.8	3488.2	3399.2	3326.5	3268.2	3209.5	3169.2	3122.2	3097.0	3084.1
5°	3618.6	3526.3	3356.7	3182.6	3027.0	2884.8	2749.4	2645.3	2547.9	2495.3	2480.7
7.5°	3630.4	3491.6	3217.3	2930.7	2654.2	2401.8	2207.0	2085.0	1997.1	1957.9	1946.7
10°	3639.9	3450.7	3044.9	2620.6	2244.5	1988.7	1837.6	1769.3	1739.1	1734.0	1729.0
12.5°	3662.3	3408.7	2863.6	2297.1	1926.0	1749.1	1696.5	1692.1	1700.4	1712.8	1712.8
15°	3697.5	3367.3	2656.5	2019.5	1723.4	1661.3	1671.9	1696.5	1719.5	1738.5	1741.3
17.5°	3723.3	3316.4	2433.7	1797.3	1615.4	1632.2	1670.2	1704.9	1728.4	1746.9	1748.6
20°	3741.8	3237.5	2195.8	1627.7	1553.2	1605.3	1652.9	1683.7	1699.9	1718.4	1721.2
22.5°	3732.3	3131.7	1984.8	1506.2	1502.9	1566.1	1611.5	1648.4	1636.1	1618.2	1629.9
25°	3686.4	2986.1	1767.6	1415.5	1449.7	1513.5	1569.5	1544.8	1503.4	1495.6	1500.1
27.5°	3604.6	2800.3	1566.7	1331.6	1388.1	1464.8	1461.4	1436.8	1422.3	1412.2	1418.3
30°	3516.8	2598.8	1390.9	1258.3	1319.8	1383.1	1370.2	1369.6	1355.1	1338.9	1346.7
32.5°	3430.0	2396.2	1251.5	1197.8	1268.3	1276.7	1304.7	1313.1	1284.6	1250.4	1248.2
35°	3354.4	2204.8	1145.8	1143.0	1206.2	1207.3	1248.2	1236.4	1165.3	1130.1	1130.1
37.5°	3297.9	2013.9	1065.2	1093.7	1124.5	1153.6	1174.3	1125.6	1113.9	1094.3	1093.7
40°	3273.3	1846.0	1014.8	1056.2	1066.8	1103.8	1050.6	1069.6	1075.2	1065.2	1065.2
42.5°	3247.5	1699.9	971.1	1027.7	1026.0	1020.9	994.1	1018.7	1041.1	1041.7	1040.0
45°	3221.8	1573.9	932.5	966.6	990.2	935.9	940.9	967.2	998.6	1009.7	1009.7
47.5°	3193.2	1474.3	897.2	902.3	938.7	902.3	898.4	918.5	955.5	973.4	977.3
50°	3130.5	1384.8	856.9	845.7	855.8	868.1	871.5	881.0	921.9	950.4	957.1
52.5°	3043.8	1304.7	805.4	793.7	793.7	840.1	855.8	858.6	893.3	927.5	934.2
55°	2971.6	1253.8	752.3	750.0	747.8	810.5	837.4	841.8	865.9	892.8	896.1
57°	2976.6	1249.9	711.4	713.7	713.1	780.3	820.0	829.5	841.8	864.8	868.7
57.5°	2979.4	1252.7	702.5	703.6	703.0	771.9	815.0	825.6	835.1	859.2	863.1
60°	3021.4	1259.9	666.1	653.8	656.6	727.1	786.4	799.8	806.0	837.9	842.9
62.5°	2959.3	1227.5	637.0	607.3	607.3	680.1	746.7	767.9	777.5	820.6	829.0
65°	2779.0	1136.2	602.8	554.7	560.3	633.1	699.1	733.8	748.4	802.1	811.0
67.5°	2500.9	1030.5	566.4	507.7	513.3	583.8	649.8	687.3	710.3	781.9	789.2
70°	2138.7	901.2	517.2	457.9	464.6	530.1	591.6	634.2	668.3	762.9	765.1
72.5°	1576.7	738.8	448.3	403.0	410.3	467.4	532.9	582.1	628.0	715.3	714.2
75°	937.5	577.6	372.2	347.6	352.6	405.8	479.7	539.6	608.4	696.9	707.5
77.5°	568.7	434.9	303.4	291.1	297.2	351.5	441.6	505.4	600.0	657.1	653.8
80°	343.7	310.6	242.4	234.5	240.7	300.6	408.6	479.7	524.5	561.4	561.4
82.5°	179.7	189.7	178.0	171.8	180.2	244.0	371.7	418.7	463.5	398.0	371.7
85°	73.3	99.1	108.0	107.5	112.5	169.0	320.7	358.2	298.9	283.8	290.5
87.5°	24.6	42.0	52.6	45.3	47.6	106.3	222.2	173.0	205.4	143.3	136.0
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)