

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: P323852

Luminaire Tested: **GAN-SA8C-740-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46008 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

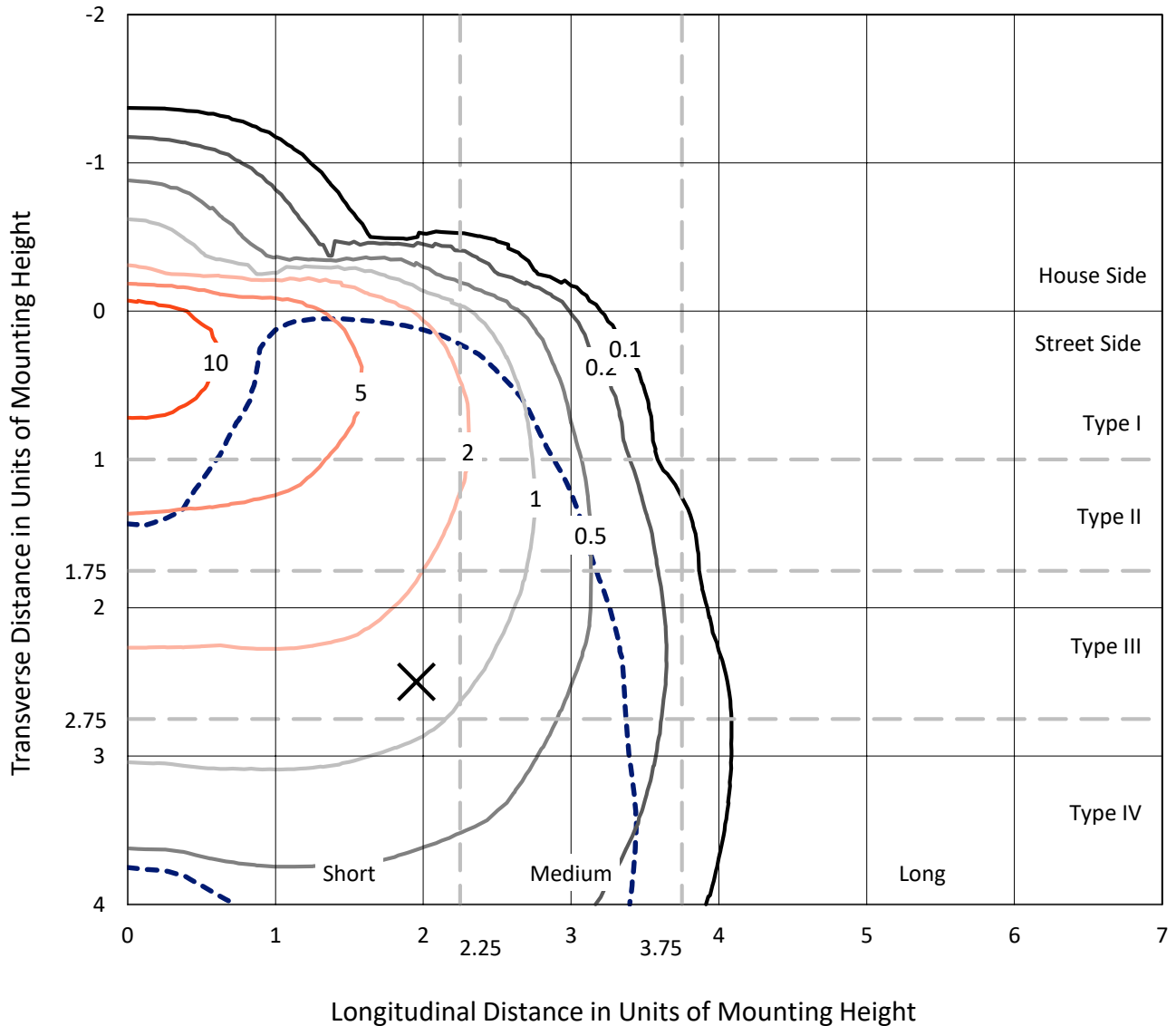
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

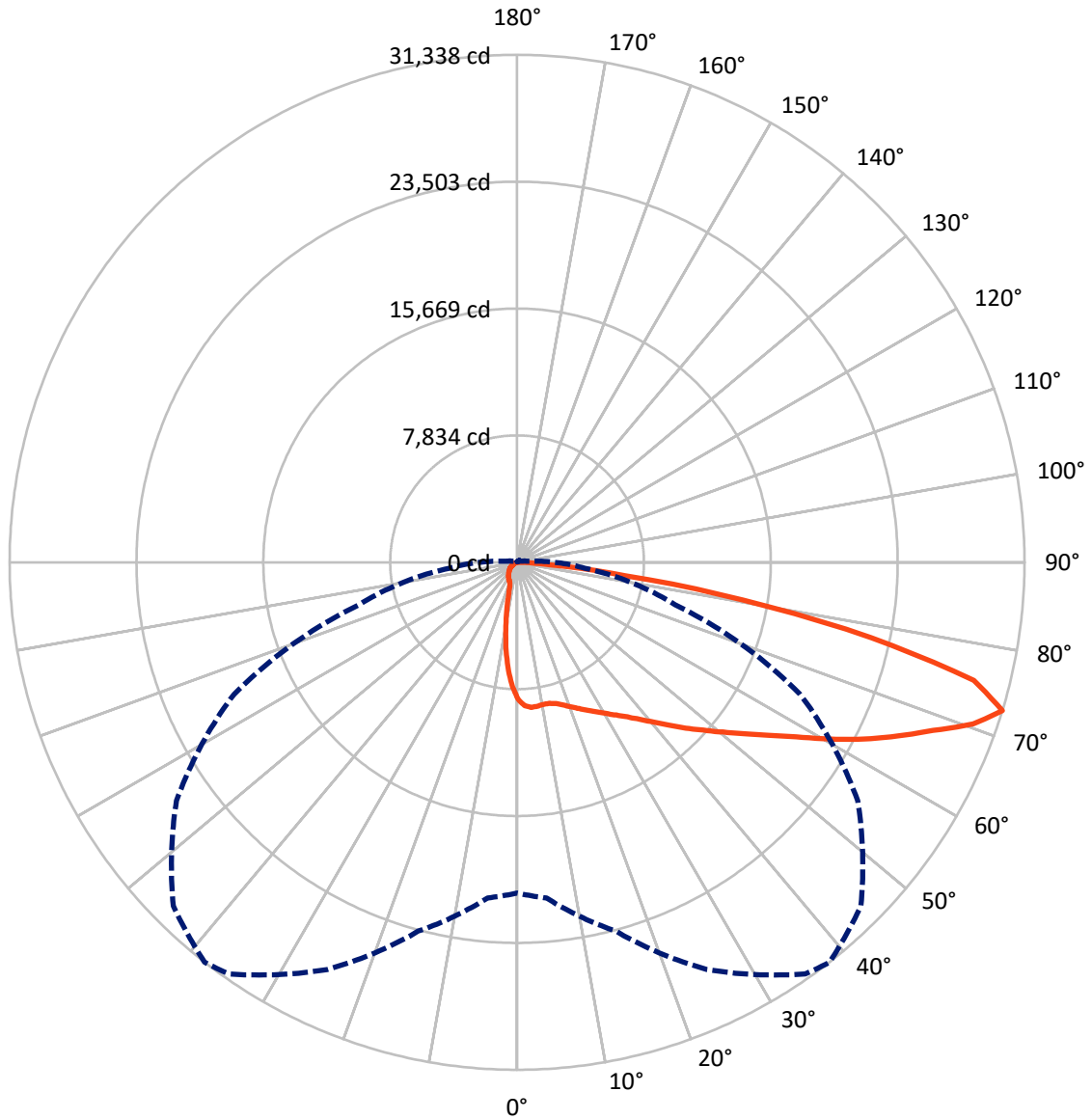
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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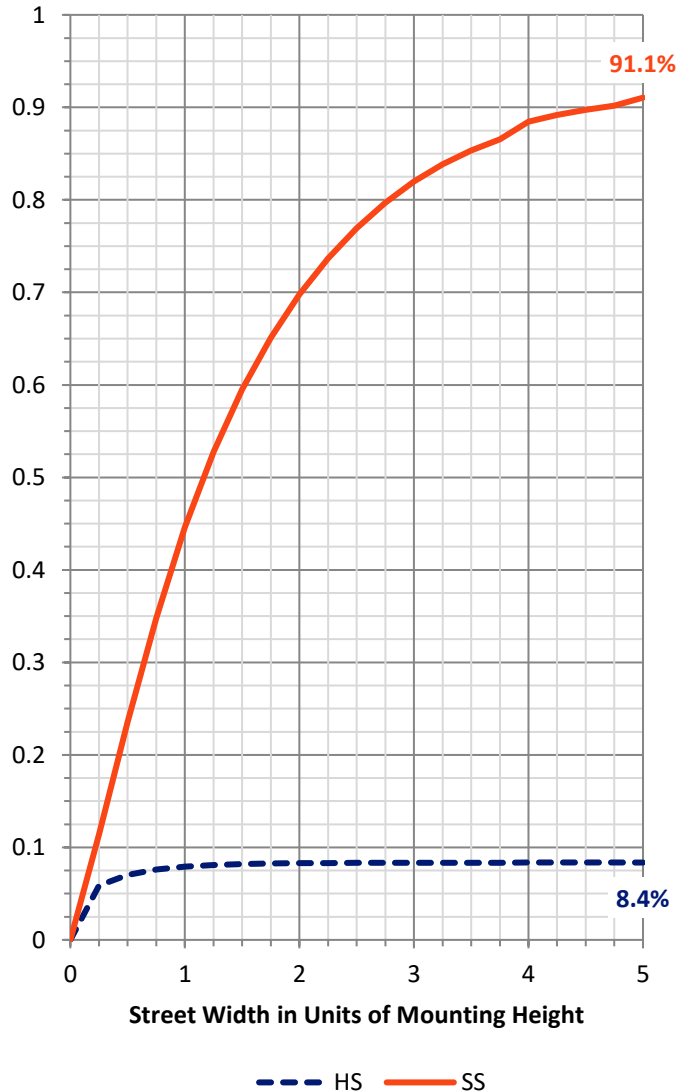
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.7	0.0	3871.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	42136.2	0.0	42136.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	46008.0	0.0	46008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.0	1.6
10°-20°	1763.0	3.8
20°-30°	2804.1	6.1
30°-40°	4215.7	9.2
40°-50°	6431.3	14.0
50°-60°	9089.5	19.8
60°-70°	11401.3	24.8
70°-80°	8525.0	18.5
80°-90°	1057.1	2.3
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°	46008.0	100.0
0°-180°	46008.0	100.0

Coefficient of Utilization

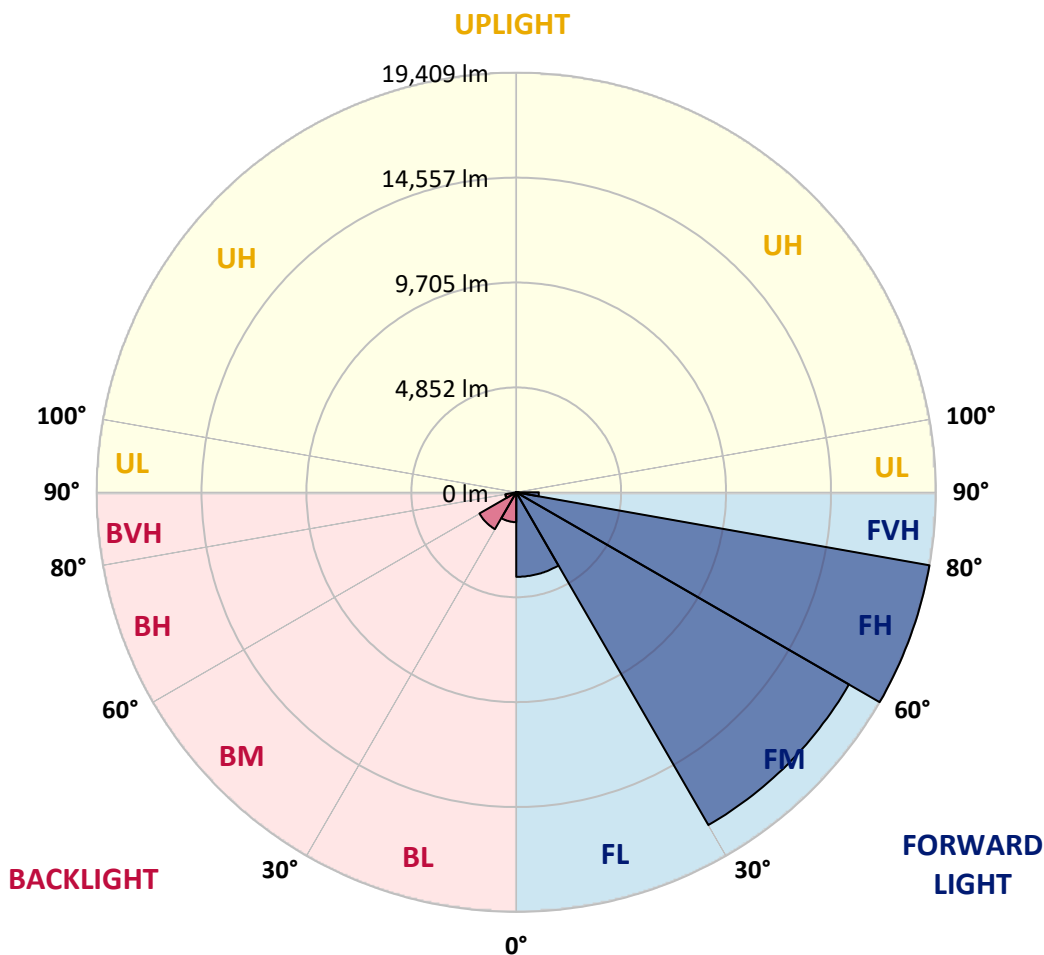


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3909.6	8.5			
FM (30°-60°)	17770.3	38.6			
FH (60°-80°)	19409.1	42.2			G5
FVH (80°-90°)	1047.2	2.3			G5
BL (0°-30°)	1378.6	3.0	B3/2500		
BM (30°-60°)	1966.1	4.3	B2/2500		
BH (60°-80°)	517.2	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7
2.5°	8980.4	8982.3	8961.3	8926.9	8883.0	8860.1	8821.8	8760.7	8695.7	8579.2	8453.1
5°	9163.9	9163.9	9137.1	9091.3	9020.6	8999.5	8926.9	8829.5	8695.7	8506.6	8294.5
7.5°	9144.8	9148.6	9112.3	9064.5	8993.8	8974.7	8886.8	8777.9	8611.7	8382.4	8111.1
10°	9045.4	9055.0	9026.3	9003.4	8938.4	8917.4	8835.2	8726.3	8560.1	8315.5	8004.1
12.5°	8944.1	8953.7	8963.2	8984.3	8944.1	8936.5	8871.5	8779.8	8621.2	8367.1	8015.5
15°	8879.2	8898.3	8967.1	9049.2	9058.8	9051.1	9009.1	8923.1	8762.6	8498.9	8097.7
17.5°	8879.2	8909.7	9053.0	9209.7	9265.1	9270.9	9234.6	9114.2	8923.1	8640.3	8174.1
20°	8953.7	8995.7	9219.3	9440.9	9532.6	9532.6	9461.9	9293.8	9070.2	8768.3	8225.7
22.5°	9144.8	9200.2	9481.1	9737.1	9834.5	9813.5	9718.0	9473.4	9223.1	8913.6	8290.7
25°	9521.2	9563.2	9855.6	10113.5	10172.7	10125.0	10004.6	9691.2	9418.0	9110.4	8409.1
27.5°	10006.5	10012.2	10314.1	10532.0	10495.6	10463.2	10312.2	9964.5	9698.9	9391.2	8613.6
30°	10539.6	10539.6	10805.2	10971.4	10860.6	10833.8	10682.9	10295.0	10058.1	9773.4	8904.0
32.5°	11055.5	11078.4	11294.3	11399.4	11275.2	11248.5	11101.4	10713.5	10535.8	10356.2	9356.9
35°	11554.2	11571.4	11775.8	11833.2	11714.7	11722.3	11617.2	11288.6	11221.7	11198.8	10039.0
37.5°	12037.6	12041.4	12249.7	12286.0	12226.8	12291.7	12301.3	12010.9	12135.1	12320.4	11000.1
40°	12479.0	12482.8	12689.2	12782.8	12884.1	12968.1	13042.7	12887.9	13298.7	13728.6	12144.6
42.5°	12832.5	12872.6	13134.4	13312.1	13579.6	13740.1	13942.6	13935.0	14684.0	15329.8	13528.0
45°	13143.9	13212.7	13577.7	13889.1	14347.7	14603.7	14920.9	15169.3	16243.1	17112.5	14928.5
47.5°	13554.7	13619.7	14036.2	14546.4	15157.8	15494.1	16019.6	16556.5	17957.1	18862.7	16296.6
50°	14133.7	14105.0	14515.8	15247.6	16032.9	16474.3	17223.3	18027.8	19657.6	20387.5	17101.0
52.5°	14750.8	14739.4	15043.2	16010.0	17064.7	17580.6	18570.4	19548.7	21283.6	21438.4	17469.8
55°	15515.1	15433.0	15689.0	16879.4	18289.5	18843.6	20009.2	21054.4	22579.1	22030.7	17655.2
57.5°	16315.7	16180.1	16424.6	17848.1	19671.0	20326.4	21602.7	22521.8	23440.9	22435.8	17653.2
60°	17143.1	16982.6	17273.0	19059.5	21386.8	22145.4	23330.0	23513.5	24245.3	22640.3	17523.3
62.5°	17834.8	17739.2	18171.1	20355.0	23303.3	24048.5	24635.1	24415.3	24923.6	22798.8	17219.5
65°	18566.6	18572.3	19269.7	21866.4	25340.1	25842.6	25892.3	25584.7	25491.1	22766.4	16191.5
67.5°	19556.3	19648.1	20811.7	23918.5	27321.6	27709.4	27705.6	26851.5	25905.7	21474.7	13912.0
70°	20603.4	20819.3	22588.7	26266.8	29484.5	29878.1	29675.6	27657.8	24392.4	17364.7	9846.0
72.5°	20427.6	20802.1	23576.5	27747.6	31037.9	31337.9	30021.4	25676.4	19279.3	10092.5	4192.1
75°	15759.7	16193.5	21618.0	26280.2	29408.1	29138.7	25794.9	19980.5	10535.8	2816.4	943.9
77.5°	8325.1	8556.3	14280.8	20020.6	22930.7	22367.0	18171.1	11084.2	3211.9	697.4	424.2
80°	4360.3	4413.8	6223.3	11359.3	14152.8	14156.6	10768.9	4868.5	1324.1	357.3	284.7
82.5°	2334.9	2380.8	3288.4	5248.8	7415.5	6722.0	4123.4	2678.8	770.0	202.5	273.2
85°	561.8	571.3	1864.9	2398.0	2915.8	2082.7	1224.8	2248.9	208.3	118.5	221.6
87.5°	215.9	219.7	691.7	1037.5	743.3	481.5	573.2	838.8	26.8	45.9	34.4
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°	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7	8460.7
2.5°	8376.6	8327.0	8204.7	8049.9	7912.3	7813.0	7663.9	7566.5	7501.5	7499.6	7474.8
5°	8164.6	8063.3	7799.6	7486.2	7201.5	6945.5	6643.6	6404.8	6227.1	6198.4	6137.3
7.5°	7937.2	7770.9	7365.9	6876.7	6399.0	5913.7	5350.0	5000.4	4700.4	4557.1	4541.8
10°	7797.7	7564.6	6989.5	6282.5	5533.5	4744.3	4006.8	3496.6	3127.9	3022.8	2944.4
12.5°	7769.0	7461.4	6699.0	5724.6	4654.5	3611.3	2795.4	2252.8	1958.5	1864.9	1840.0
15°	7797.7	7413.6	6454.5	5172.4	3764.1	2562.3	1876.3	1561.1	1450.2	1423.5	1421.6
17.5°	7814.9	7356.3	6177.4	4559.0	2900.5	1830.5	1436.9	1345.2	1328.0	1326.0	1329.9
20°	7813.0	7268.4	5846.8	3875.0	2157.2	1438.8	1299.3	1280.2	1276.4	1278.3	1276.4
22.5°	7799.6	7165.2	5483.8	3169.9	1629.9	1285.9	1240.1	1228.6	1226.7	1226.7	1226.7
25°	7824.4	7083.1	5084.5	2495.4	1343.2	1215.2	1186.6	1177.0	1175.1	1175.1	1171.3
27.5°	7914.3	7037.2	4646.9	1920.3	1213.3	1152.2	1129.2	1127.3	1121.6	1119.7	1123.5
30°	8059.5	7037.2	4167.3	1494.2	1135.0	1087.2	1070.0	1066.2	1064.3	1062.4	1064.3
32.5°	8315.5	7090.7	3643.8	1242.0	1060.5	1014.6	1003.1	1008.9	1003.1	1003.1	1003.1
35°	8777.9	7251.2	3095.4	1083.4	982.1	943.9	932.4	940.1	936.3	936.3	934.3
37.5°	9452.4	7549.3	2543.2	987.8	913.3	873.2	857.9	869.4	865.6	865.6	863.7
40°	10274.0	7983.0	2017.7	915.2	846.5	804.4	791.0	796.8	787.2	787.2	791.0
42.5°	11288.6	8533.3	1559.2	844.5	779.6	739.5	731.8	726.1	708.9	699.3	701.2
45°	12415.9	9106.5	1215.2	775.8	716.5	684.0	672.6	657.3	628.6	609.5	611.4
47.5°	13422.9	9547.9	987.8	708.9	659.2	634.4	617.2	588.5	546.5	523.5	525.5
50°	13952.2	9614.8	840.7	642.0	605.7	580.9	556.0	512.1	462.4	437.6	435.6
52.5°	14087.8	9301.4	731.8	580.9	552.2	523.5	491.1	431.8	376.4	349.7	345.8
55°	14137.5	8823.8	634.4	523.5	494.9	462.4	420.4	353.5	301.9	275.1	273.2
57.5°	13973.2	8111.1	557.9	472.0	437.6	397.4	345.8	282.8	233.1	212.1	212.1
60°	13608.2	7146.1	498.7	416.5	378.3	332.5	279.0	219.7	173.9	156.7	156.7
62.5°	12880.2	5896.5	443.3	359.2	322.9	275.1	225.5	166.2	122.3	112.7	114.6
65°	11506.4	4473.0	387.9	307.6	275.1	227.4	175.8	118.5	82.2	82.2	86.0
67.5°	9383.6	3106.8	330.6	261.8	236.9	185.3	133.8	82.2	57.3	65.0	72.6
70°	6211.8	1742.6	282.8	215.9	202.5	147.1	99.4	55.4	45.9	61.1	74.5
72.5°	2344.5	678.3	236.9	173.9	175.8	112.7	70.7	42.0	42.0	66.9	87.9
75°	653.5	332.5	170.1	128.0	137.6	82.2	51.6	36.3	40.1	76.4	103.2
77.5°	384.1	244.6	110.8	74.5	93.6	57.3	34.4	28.7	34.4	65.0	99.4
80°	309.5	129.9	65.0	38.2	51.6	32.5	22.9	17.2	9.6	24.8	51.6
82.5°	309.5	78.3	30.6	26.8	26.8	17.2	11.5	7.6	1.9	0.0	13.4
85°	208.3	32.5	19.1	17.2	13.4	5.7	3.8	1.9	0.0	0.0	0.0
87.5°	34.4	13.4	7.6	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
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)