

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: P383708

Luminaire Tested: **GAN-SA9D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52157.4 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

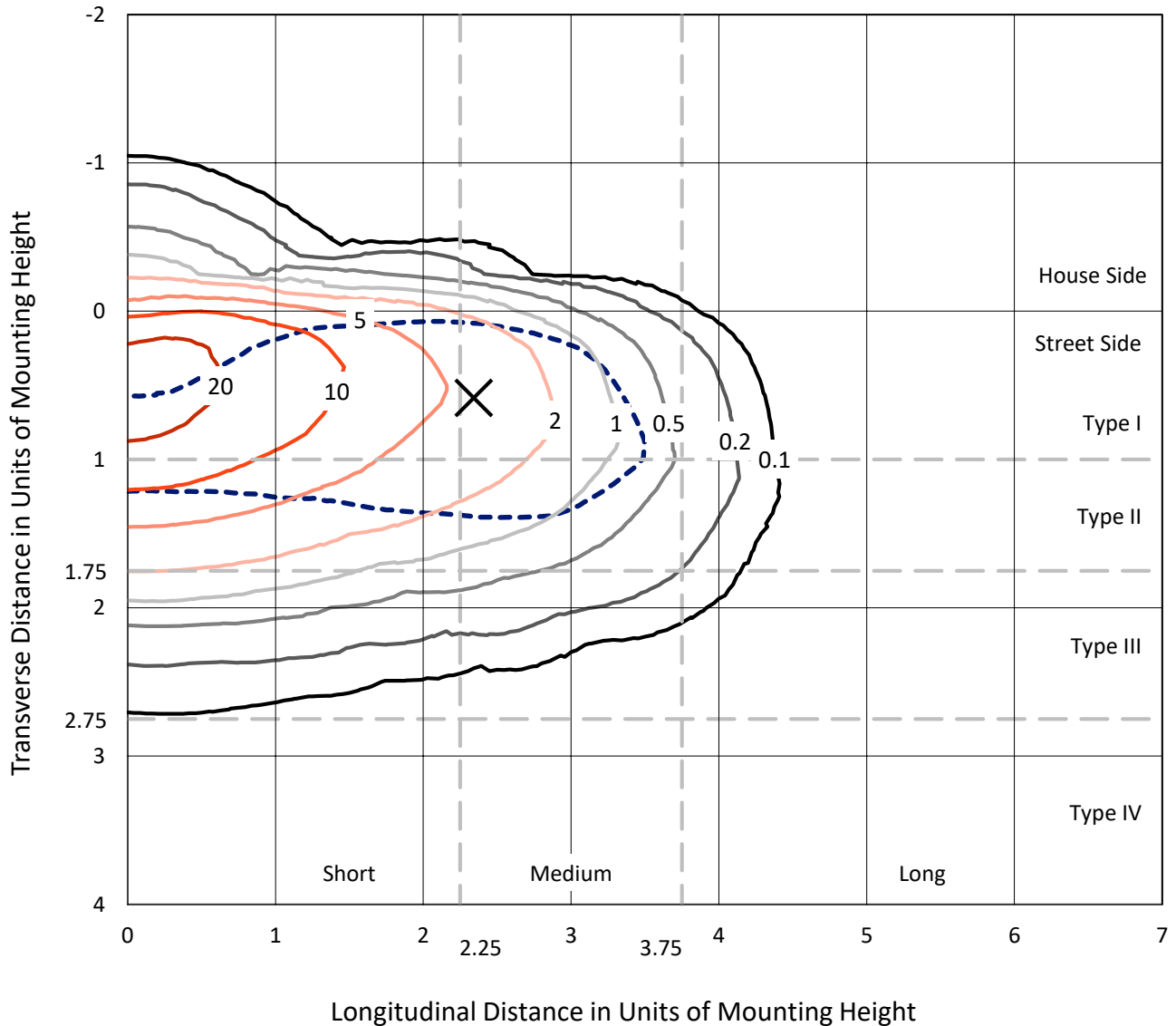
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

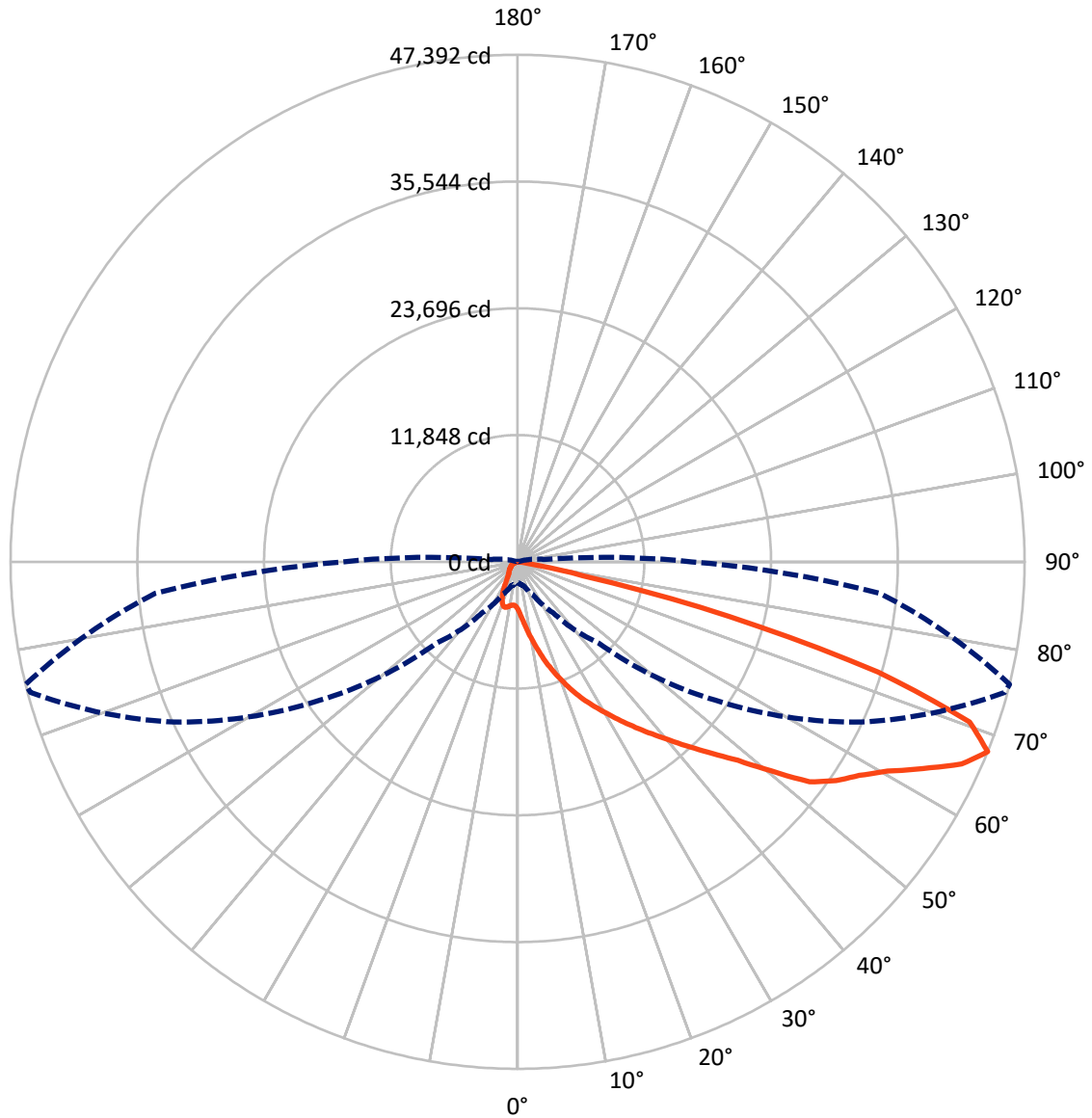
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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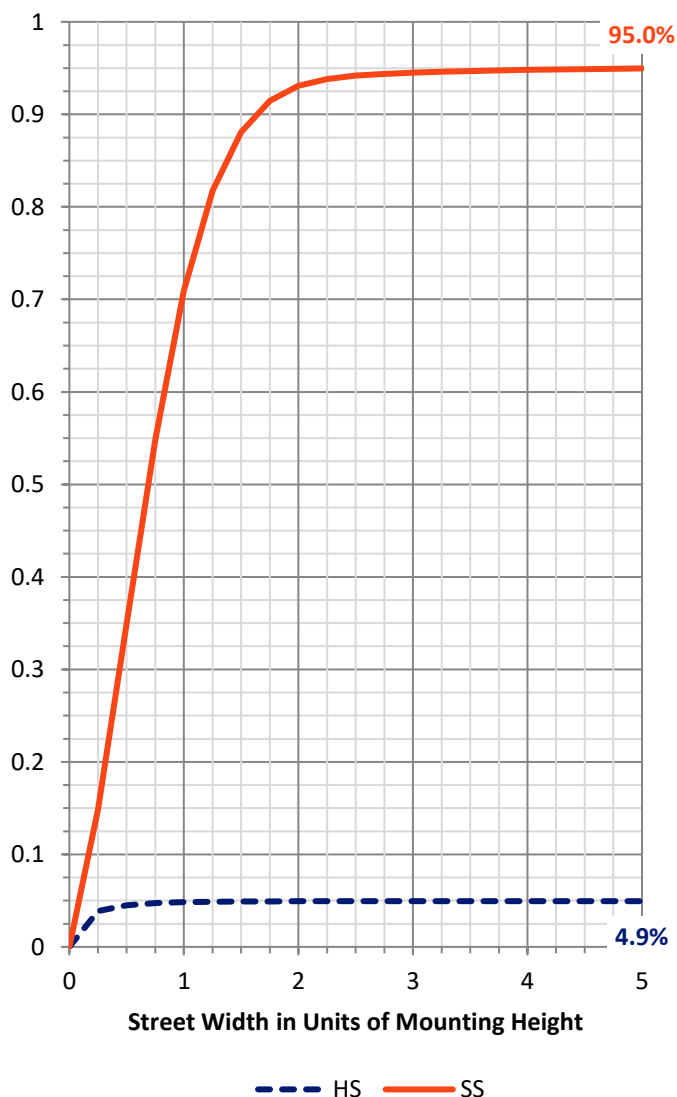
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.0	0.0	2590.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49567.4	0.0	49567.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	52157.4	0.0	52157.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.2	1.1
10°-20°	2181.0	4.2
20°-30°	4437.6	8.5
30°-40°	7702.2	14.8
40°-50°	10882.2	20.9
50°-60°	12340.9	23.7
60°-70°	10235.6	19.6
70°-80°	3707.6	7.1
80°-90°	120.2	0.2
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°	52157.4	100.0
0°-180°	52157.4	100.0

Coefficient of Utilization

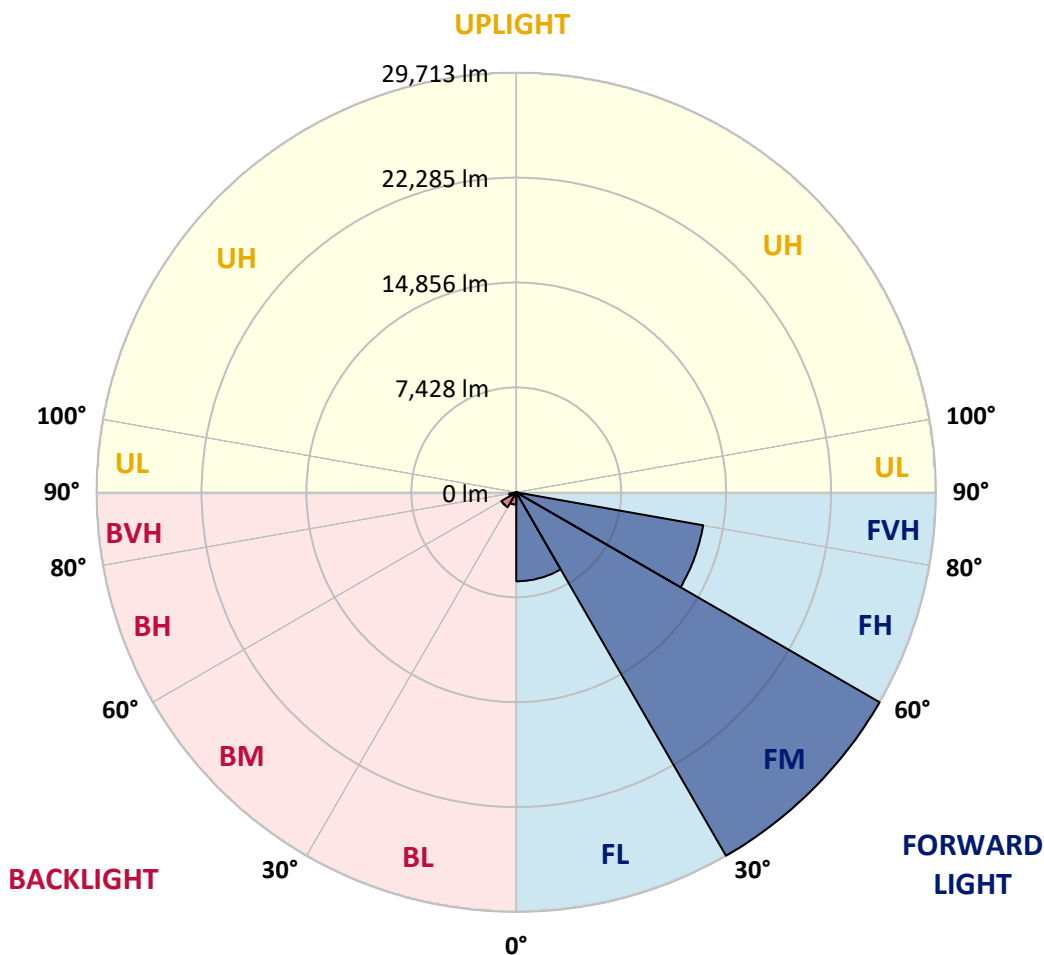


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6295.2	12.1			
FM (30°-60°)	29713.0	57.0			
FH (60°-80°)	13442.7	25.8			G5
FVH (80°-90°)	116.5	0.2			G2/225
BL (0°-30°)	873.5	1.7	B2/1000		
BM (30°-60°)	1212.2	2.3	B2/2500		
BH (60°-80°)	500.5	1.0	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5
2.5°	6604.7	6456.2	6490.4	6394.4	6220.8	5864.2	5560.3	5272.3	4936.4	4924.9	4648.4
5°	8906.1	8780.3	8764.4	8570.1	8254.7	7649.1	7059.5	6387.6	5638.0	5583.1	4995.8
7.5°	10994.9	10894.3	10857.7	10626.9	10039.6	9450.0	8682.1	7694.8	6522.4	6421.9	5464.3
10°	12599.2	12551.2	12560.3	12395.8	11893.0	11344.5	10336.6	9077.5	7525.7	7370.3	6026.5
12.5°	13815.0	13826.4	13908.7	13808.1	13527.0	13120.3	12043.8	10551.5	8636.4	8423.8	6668.7
15°	14708.6	14765.7	14916.5	15042.3	15021.7	14669.7	13682.5	12048.5	9815.6	9580.2	7384.0
17.5°	15286.8	15350.8	15570.2	15849.0	16104.9	16022.6	15263.9	13492.7	11008.6	10736.6	8149.6
20°	15794.1	15869.6	16104.9	16472.8	16950.5	17053.4	16555.1	14893.7	12199.3	11867.8	8940.3
22.5°	16893.3	16891.1	17035.0	17249.8	17704.7	17969.7	17654.4	16194.0	13376.2	13031.1	9747.1
25°	18881.6	18806.2	18756.0	18586.8	18687.4	18851.9	18675.9	17409.9	14560.0	14210.4	10565.2
27.5°	21244.7	21290.4	20883.6	20428.8	20076.9	19907.7	19619.8	18536.6	15698.2	15314.2	11365.1
30°	23738.0	23751.8	23271.8	22691.3	21916.6	21274.4	20776.2	19613.0	16868.2	16450.0	12142.1
32.5°	25986.8	25897.7	25422.3	24631.6	23653.5	22931.3	21896.0	20815.1	18106.9	17702.4	13006.0
35°	27769.4	27664.3	27086.1	26366.2	25351.5	24624.7	23379.2	22014.9	19409.5	19014.2	13872.1
37.5°	29072.0	28948.7	28354.4	27614.0	26738.7	26315.9	25100.1	23319.8	20831.1	20405.9	14783.9
40°	29524.6	29417.2	29044.6	28503.0	27799.1	27703.1	26926.1	24821.3	22378.2	21925.7	15816.9
42.5°	29254.9	29149.7	29017.2	28834.4	28541.9	28633.3	28649.3	26533.0	24096.8	23651.2	16957.3
45°	28185.4	28091.7	28228.8	28496.1	28859.5	29312.0	30221.5	28372.7	26016.5	25541.2	18276.0
47.5°	26610.7	26542.1	26921.5	27588.8	28651.5	29899.3	31659.1	30306.1	28171.6	27730.5	19921.4
50°	24371.1	24359.6	25118.3	26336.4	27970.5	30182.7	33144.6	32504.7	31165.4	30701.5	22209.1
52.5°	20883.6	20906.4	22398.8	24348.2	26775.3	29990.8	34099.9	35329.3	34648.4	34166.1	24190.5
55°	17563.0	17700.1	18758.2	21569.2	24942.4	29277.7	34428.9	36648.0	36570.3	36113.2	25292.1
57.5°	14310.9	14560.0	15579.3	18205.1	22266.2	27634.5	34248.3	37219.3	38000.9	37651.3	26745.6
60°	10786.9	10901.2	12075.8	14530.3	18831.3	24636.2	32938.9	37530.2	39957.2	39714.9	28855.0
62.5°	6862.9	7148.6	8190.7	10558.3	14662.8	20472.2	30731.2	37525.6	42404.8	42537.4	31576.8
65°	3615.4	3949.1	4502.2	6543.0	10076.2	15821.5	27410.6	37173.7	45407.8	45592.9	33704.5
67.5°	1949.4	2045.4	2337.9	3396.0	5843.7	10718.3	22531.3	35436.7	47146.9	47391.5	34001.6
70°	1426.1	1478.6	1588.3	1878.6	2941.3	6225.3	16440.9	31499.1	44905.0	44813.6	30210.2
72.5°	1094.7	1176.9	1259.3	1375.8	1691.1	3322.9	10236.1	24665.9	35829.8	35226.5	22581.6
75°	863.8	877.6	994.1	1099.2	1268.4	1892.3	4545.6	14365.8	21868.6	20440.2	11710.2
77.5°	690.2	699.3	767.9	859.3	1019.3	1243.2	1407.8	5651.7	6981.8	6229.9	2541.4
80°	409.0	432.0	571.3	662.8	845.6	783.9	514.2	1227.2	1090.1	987.3	427.4
82.5°	228.5	246.9	322.2	523.3	589.6	374.8	256.0	331.4	256.0	249.1	121.1
85°	0.0	11.5	207.9	324.6	240.0	82.3	107.4	109.7	75.5	70.9	48.0
87.5°	0.0	0.0	64.0	61.7	9.1	13.7	25.2	36.6	29.7	29.7	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°	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5	4424.5
2.5°	4511.3	4387.9	4154.8	3926.3	3734.3	3576.6	3434.9	3377.8	3332.1	3325.2	3288.6
5°	4712.4	4463.3	4017.7	3652.0	3407.5	3233.8	3085.2	2993.8	2923.0	2895.5	2870.4
7.5°	5016.4	4639.3	3999.4	3578.9	3286.3	2993.8	2719.6	2422.5	2237.4	2166.5	2125.4
10°	5386.6	4872.4	4068.0	3558.3	3046.3	2429.3	1974.5	1597.5	1444.4	1394.1	1380.4
12.5°	5818.5	5162.6	4186.7	3430.3	2534.5	1725.4	1362.1	1234.1	1199.8	1183.8	1183.8
15°	6314.4	5480.3	4271.3	3060.1	1874.0	1304.9	1179.2	1119.8	1083.3	1062.7	1064.9
17.5°	6821.8	5791.1	4230.2	2523.0	1382.6	1161.0	1067.3	1003.3	953.0	932.4	927.8
20°	7333.7	6079.1	4001.6	1878.6	1170.1	1053.6	948.4	877.6	827.3	806.7	802.2
22.5°	7863.9	6323.6	3599.4	1378.0	1051.3	934.7	831.9	761.0	713.0	694.7	685.6
25°	8380.4	6522.4	3037.2	1115.2	939.3	822.7	724.5	658.1	614.7	596.5	594.2
27.5°	8862.7	6648.1	2385.9	985.0	841.0	722.1	633.1	573.6	537.0	523.3	521.1
30°	9296.8	6659.5	1764.3	889.0	754.2	635.3	553.1	500.5	468.5	454.8	450.2
32.5°	9735.6	6563.6	1284.4	802.2	674.2	560.0	479.9	438.8	415.9	404.5	404.5
35°	10149.3	6341.9	1000.9	726.7	596.5	486.8	422.8	393.1	379.3	368.0	368.0
37.5°	10553.8	6024.2	850.1	660.5	523.3	425.1	372.5	354.3	342.8	331.4	331.4
40°	10965.2	5624.3	772.4	598.8	463.9	377.1	331.4	315.4	304.0	294.8	292.5
42.5°	11470.2	5162.6	722.1	541.6	411.4	333.7	292.5	274.2	265.1	256.0	251.4
45°	12055.3	4765.0	681.1	484.5	368.0	297.1	253.7	235.4	221.7	210.3	207.9
47.5°	12898.6	4477.0	626.2	422.8	326.8	258.2	219.4	198.8	178.3	166.8	164.5
50°	13975.0	4239.4	555.3	368.0	285.7	219.4	182.9	157.7	139.5	128.0	128.0
52.5°	14509.8	3928.5	491.4	320.0	240.0	185.1	148.6	118.9	109.7	98.3	98.3
55°	14724.6	3690.9	427.4	271.9	198.8	153.1	116.5	91.4	84.6	77.7	75.5
57.5°	15327.9	3622.3	372.5	230.8	164.5	121.1	89.1	68.6	64.0	54.9	54.9
60°	16299.2	3656.6	322.2	196.6	132.6	93.7	66.2	52.5	48.0	38.8	38.8
62.5°	17348.1	3613.2	271.9	169.1	102.8	68.6	45.7	38.8	38.8	22.8	20.6
65°	17549.2	3217.8	233.1	139.5	80.0	50.3	29.7	25.2	34.3	4.6	0.0
67.5°	16287.7	2495.6	201.1	107.4	59.4	38.8	22.8	11.5	29.7	0.0	0.0
70°	13024.2	1586.1	162.3	77.7	45.7	32.0	18.3	4.6	22.8	0.0	0.0
72.5°	9210.0	921.0	128.0	54.9	38.8	25.2	13.7	0.0	13.7	0.0	0.0
75°	4657.6	491.4	80.0	41.2	29.7	18.3	9.1	0.0	2.3	0.0	0.0
77.5°	1007.8	228.5	50.3	29.7	20.6	11.5	4.6	0.0	0.0	0.0	0.0
80°	219.4	100.5	32.0	18.3	11.5	6.9	0.0	0.0	0.0	0.0	0.0
82.5°	80.0	52.5	16.0	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.4	27.4	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.8	9.1	2.3	2.3	0.0	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)