

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: P383036

Luminaire Tested: **GAN-SA3D-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383036
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-SA3D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 17811.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

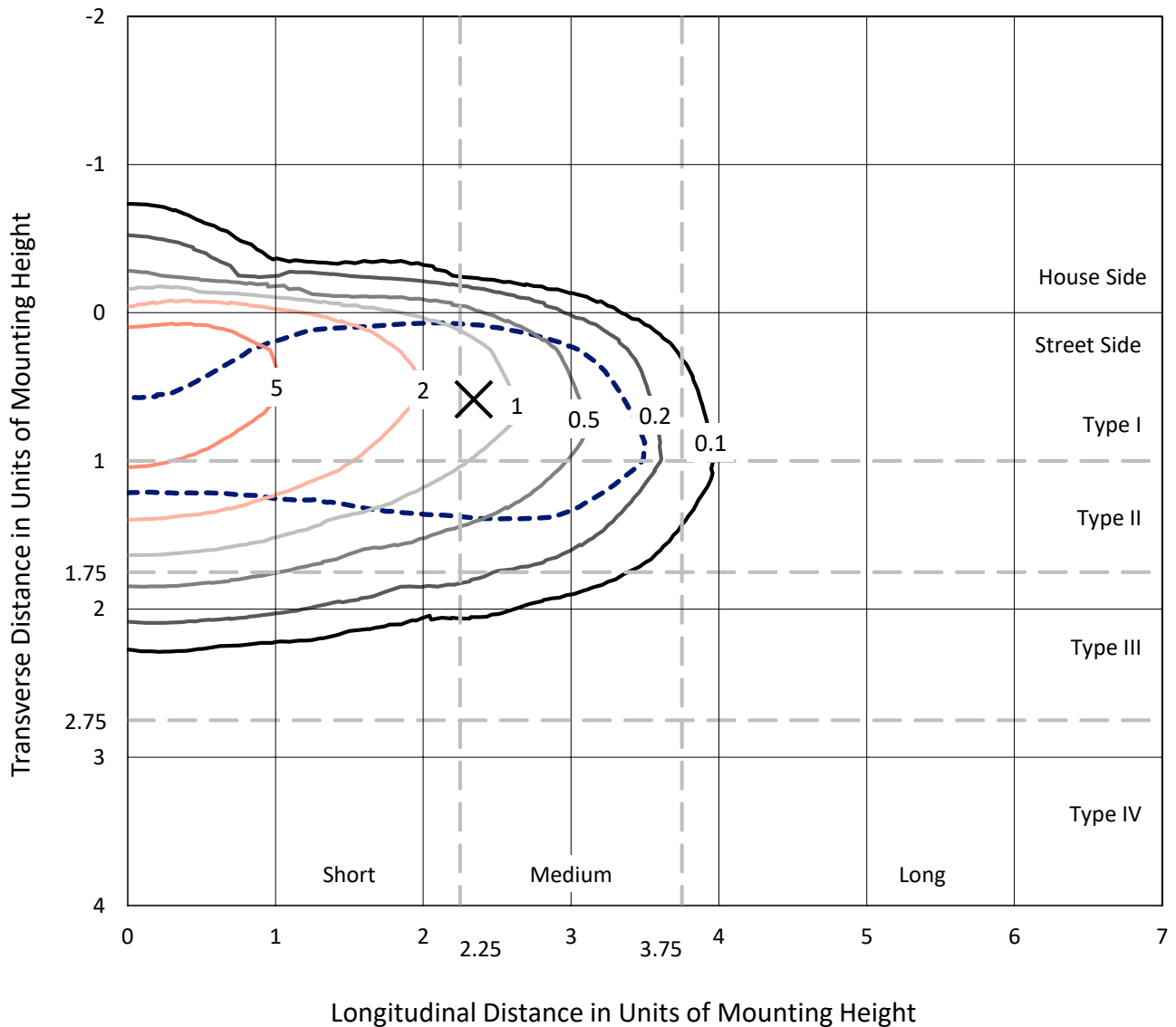
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

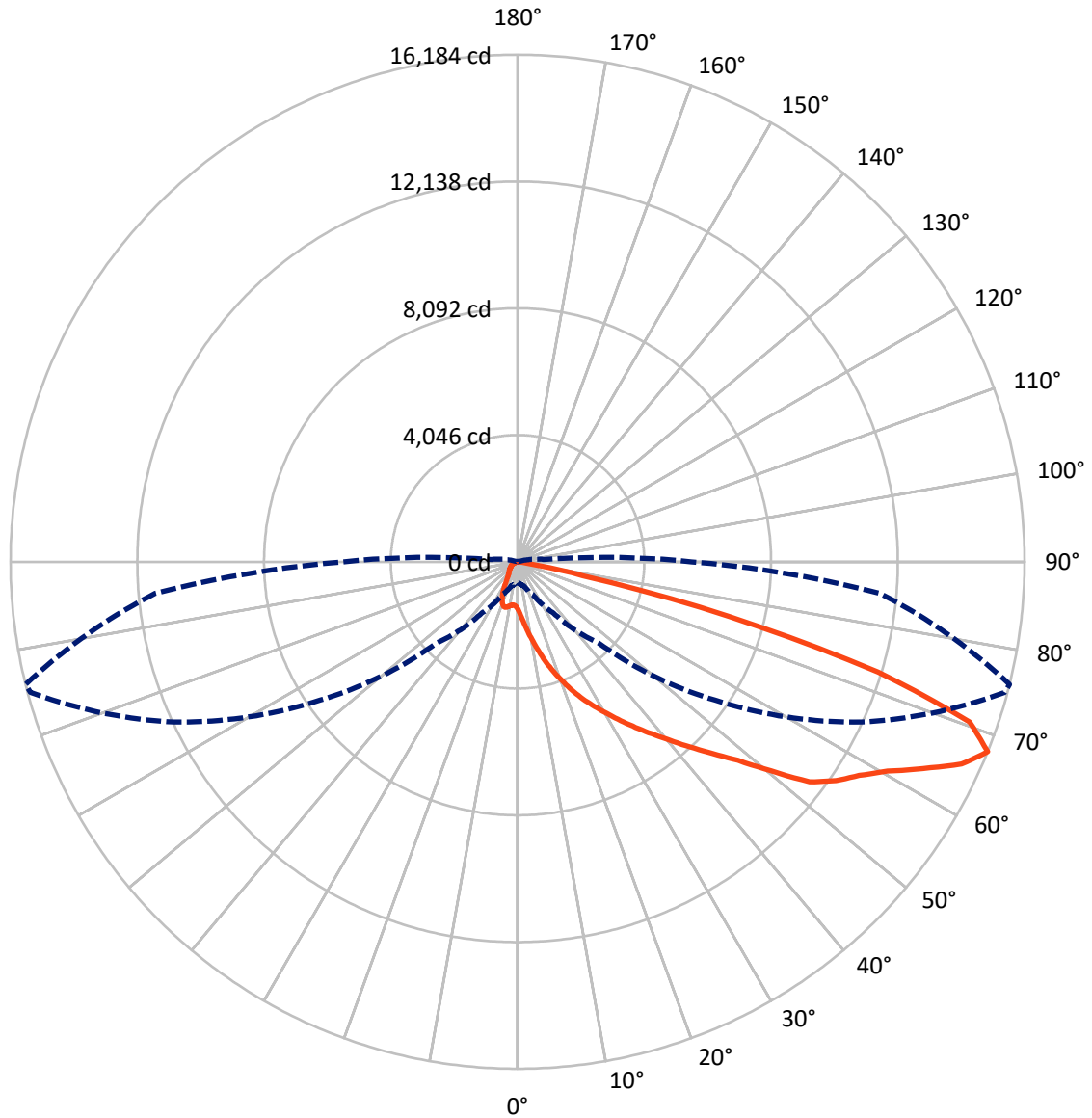
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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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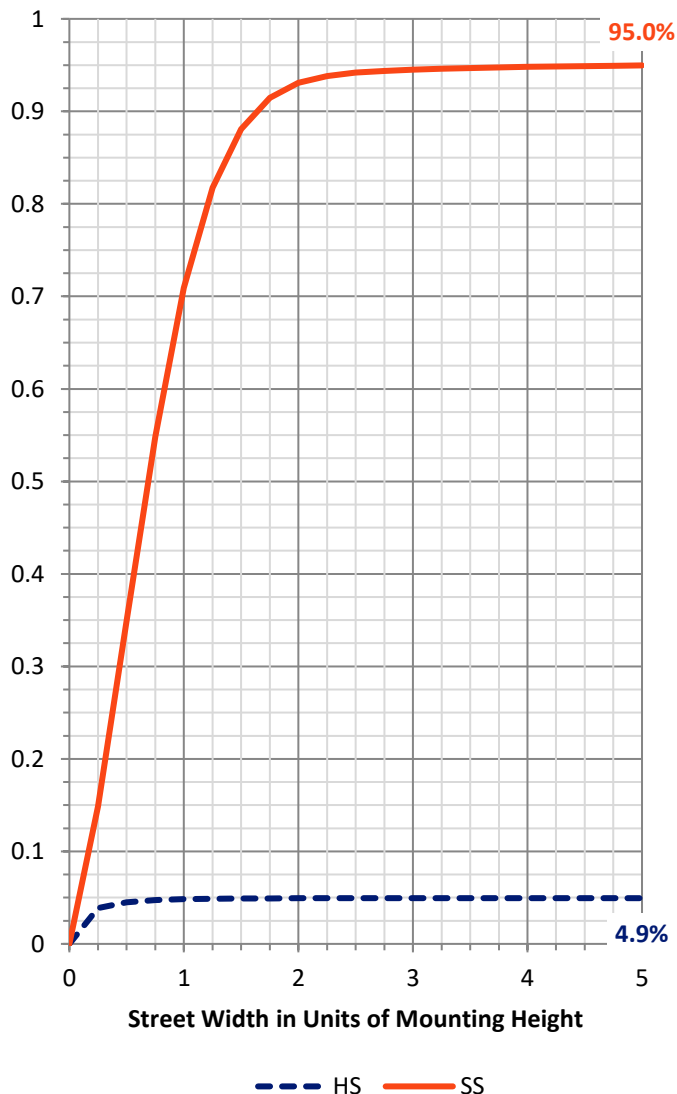
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	884.5	0.0	884.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16926.7	0.0	16926.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	17811.2	0.0	17811.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.1
10°-20°	744.8	4.2
20°-30°	1515.4	8.5
30°-40°	2630.2	14.8
40°-50°	3716.1	20.9
50°-60°	4214.3	23.7
60°-70°	3495.3	19.6
70°-80°	1266.1	7.1
80°-90°	41.1	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°	17811.2	100.0
0°-180°	17811.2	100.0

Coefficient of Utilization

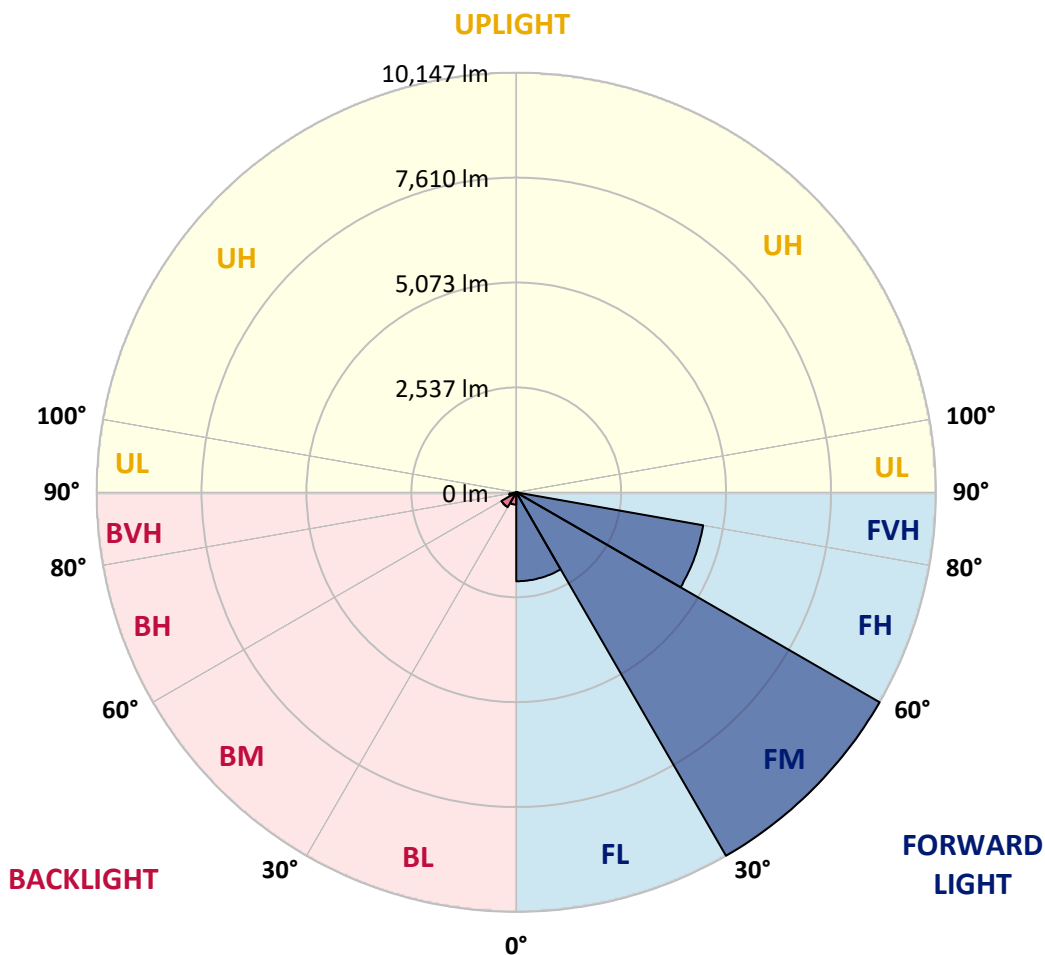


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.8	12.1			
FM (30°-60°)	10146.7	57.0			
FH (60°-80°)	4590.5	25.8			G2/5000
FVH (80°-90°)	39.8	0.2			G1/100
BL (0°-30°)	298.3	1.7	B1/500		
BM (30°-60°)	414.0	2.3	B1/1000		
BH (60°-80°)	170.9	1.0	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9
2.5°	2255.5	2204.7	2216.4	2183.6	2124.3	2002.5	1898.8	1800.4	1685.7	1681.8	1587.4
5°	3041.3	2998.4	2993.0	2926.6	2818.9	2612.1	2410.8	2181.3	1925.3	1906.6	1706.0
7.5°	3754.6	3720.3	3707.8	3628.9	3428.4	3227.1	2964.8	2627.7	2227.3	2193.0	1866.0
10°	4302.4	4286.1	4289.2	4233.0	4061.4	3874.0	3529.9	3099.8	2570.0	2516.9	2058.0
12.5°	4717.6	4721.5	4749.7	4715.3	4619.4	4480.5	4112.9	3603.2	2949.2	2876.6	2277.3
15°	5022.8	5042.4	5093.8	5136.7	5129.8	5009.6	4672.5	4114.4	3351.9	3271.5	2521.5
17.5°	5220.3	5242.1	5317.1	5412.3	5499.7	5471.5	5212.5	4607.6	3759.4	3666.5	2783.0
20°	5393.6	5419.3	5499.7	5625.3	5788.5	5823.6	5653.4	5086.1	4165.9	4052.8	3053.1
22.5°	5768.9	5768.1	5817.3	5890.6	6045.9	6136.5	6028.8	5530.1	4567.8	4450.0	3328.5
25°	6447.9	6422.1	6404.9	6347.2	6381.6	6437.7	6377.7	5945.3	4972.1	4852.7	3607.9
27.5°	7254.8	7270.4	7131.6	6976.3	6856.0	6798.2	6700.0	6330.1	5360.8	5229.6	3881.0
30°	8106.3	8111.0	7947.0	7748.9	7484.2	7265.0	7094.9	6697.6	5760.3	5617.5	4146.4
32.5°	8874.2	8843.8	8681.5	8411.4	8077.4	7830.8	7477.3	7108.1	6183.3	6045.2	4441.4
35°	9483.0	9447.0	9249.6	9003.8	8657.2	8409.1	7983.7	7517.9	6628.1	6493.2	4737.2
37.5°	9927.8	9885.7	9682.8	9429.9	9131.0	8986.6	8571.4	7963.4	7113.6	6968.4	5048.6
40°	10082.3	10045.6	9918.5	9733.5	9493.1	9460.3	9194.9	8476.2	7642.0	7487.4	5401.3
42.5°	9990.2	9954.3	9909.1	9846.6	9746.8	9778.0	9783.4	9060.8	8228.8	8076.6	5790.8
45°	9625.0	9593.0	9639.8	9731.1	9855.2	10009.8	10320.3	9689.0	8884.4	8722.1	6241.1
47.5°	9087.2	9063.9	9193.4	9421.3	9784.2	10210.3	10811.3	10349.2	9620.3	9469.6	6803.0
50°	8322.4	8318.5	8577.7	8993.6	9551.6	10307.1	11318.5	11100.0	10642.7	10484.3	7584.2
52.5°	7131.6	7139.4	7648.9	8314.6	9143.5	10241.5	11644.7	12064.6	11832.1	11667.4	8260.8
55°	5997.6	6044.4	6405.7	7365.7	8517.6	9998.0	11757.2	12514.9	12488.4	12332.3	8636.9
57.5°	4887.0	4972.1	5320.2	6216.9	7603.7	9436.9	11695.5	12710.0	12976.9	12857.5	9133.4
60°	3683.6	3722.7	4123.8	4962.0	6430.8	8413.0	11248.3	12816.1	13644.9	13562.2	9853.6
62.5°	2343.6	2441.2	2797.1	3605.6	5007.3	6991.1	10494.3	12814.6	14480.8	14526.1	10783.1
65°	1234.7	1348.6	1537.4	2234.3	3440.9	5402.9	9360.5	12694.4	15506.3	15569.5	11509.7
67.5°	665.7	698.5	798.3	1159.7	1995.6	3660.2	7694.2	12101.3	16100.2	16183.7	11611.2
70°	487.0	504.9	542.4	641.5	1004.4	2125.9	5614.3	10756.6	15334.6	15303.4	10316.4
72.5°	373.8	402.0	430.0	469.8	577.6	1134.7	3495.5	8423.1	12235.5	12029.4	7711.4
75°	295.0	299.7	339.5	375.4	433.2	646.2	1552.2	4905.7	7467.9	6980.1	3998.9
77.5°	235.7	238.8	262.2	293.4	348.0	424.5	480.8	1930.0	2384.2	2127.5	867.8
80°	139.7	147.5	195.1	226.4	288.8	267.7	175.6	419.1	372.2	337.1	146.0
82.5°	78.1	84.3	110.0	178.8	201.3	128.0	87.4	113.2	87.4	85.1	41.4
85°	0.0	3.9	71.0	110.9	82.0	28.1	36.7	37.4	25.7	24.2	16.4
87.5°	0.0	0.0	21.9	21.1	3.2	4.7	8.6	12.5	10.2	10.2	8.6
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°	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9
2.5°	1540.6	1498.4	1418.8	1340.8	1275.2	1221.4	1173.0	1153.4	1137.9	1135.6	1123.1
5°	1609.2	1524.2	1372.0	1247.2	1163.6	1104.3	1053.6	1022.4	998.2	988.8	980.2
7.5°	1713.0	1584.3	1365.7	1222.2	1122.2	1022.4	928.8	827.2	764.1	739.8	725.8
10°	1839.4	1663.8	1389.1	1215.1	1040.4	829.6	674.3	545.5	493.3	476.0	471.4
12.5°	1987.0	1763.0	1429.7	1171.4	865.5	589.2	465.1	421.4	409.7	404.3	404.3
15°	2156.3	1871.5	1458.6	1045.0	640.0	445.7	402.7	382.4	369.9	362.9	363.7
17.5°	2329.6	1977.6	1444.6	861.6	472.2	396.5	364.4	342.6	325.5	318.4	316.8
20°	2504.4	2076.0	1366.5	641.5	399.5	359.8	323.9	299.7	282.5	275.5	274.0
22.5°	2685.5	2159.4	1229.2	470.6	359.0	319.1	284.0	259.9	243.5	237.3	234.1
25°	2861.8	2227.3	1037.2	380.8	320.7	281.0	247.4	224.8	210.0	203.7	202.9
27.5°	3026.5	2270.3	814.7	336.4	287.2	246.6	216.2	195.9	183.4	178.8	177.9
30°	3174.8	2274.2	602.5	303.6	257.6	217.0	188.8	170.9	159.9	155.3	153.7
32.5°	3324.6	2241.4	438.6	274.0	230.2	191.2	163.9	149.9	142.1	138.1	138.1
35°	3465.9	2165.7	341.8	248.2	203.7	166.2	144.4	134.2	129.6	125.7	125.7
37.5°	3604.0	2057.2	290.4	225.5	178.8	145.1	127.2	121.0	117.1	113.2	113.2
40°	3744.4	1920.7	263.8	204.5	158.5	128.7	113.2	107.7	103.8	100.7	99.9
42.5°	3917.0	1763.0	246.6	185.0	140.5	113.9	99.9	93.6	90.5	87.4	85.9
45°	4116.8	1627.2	232.6	165.4	125.7	101.4	86.6	80.4	75.7	71.8	71.0
47.5°	4404.7	1528.9	213.8	144.4	111.6	88.2	74.9	67.9	60.8	57.0	56.2
50°	4772.3	1447.7	189.7	125.7	97.5	74.9	62.4	53.8	47.6	43.7	43.7
52.5°	4954.9	1341.5	167.8	109.3	82.0	63.3	50.8	40.6	37.4	33.5	33.5
55°	5028.3	1260.4	146.0	92.9	67.9	52.3	39.8	31.2	28.9	26.5	25.7
57.5°	5234.3	1237.0	127.2	78.8	56.2	41.4	30.5	23.4	21.9	18.7	18.7
60°	5566.0	1248.6	110.0	67.1	45.3	32.0	22.6	18.0	16.4	13.2	13.2
62.5°	5924.2	1233.8	92.9	57.8	35.1	23.4	15.6	13.2	13.2	7.8	7.0
65°	5992.9	1098.9	79.6	47.6	27.3	17.1	10.2	8.6	11.7	1.6	0.0
67.5°	5562.1	852.2	68.7	36.7	20.3	13.2	7.8	3.9	10.2	0.0	0.0
70°	4447.7	541.6	55.4	26.5	15.6	10.9	6.2	1.6	7.8	0.0	0.0
72.5°	3145.1	314.5	43.7	18.7	13.2	8.6	4.7	0.0	4.7	0.0	0.0
75°	1590.5	167.8	27.3	14.1	10.2	6.2	3.2	0.0	0.7	0.0	0.0
77.5°	344.2	78.1	17.1	10.2	7.0	3.9	1.6	0.0	0.0	0.0	0.0
80°	74.9	34.4	10.9	6.2	3.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	27.3	18.0	5.5	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	9.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	3.2	0.7	0.7	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)