

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: P321256

Luminaire Tested: **GAN-SA2D-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321256  
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-SA2D-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 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: 11670 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

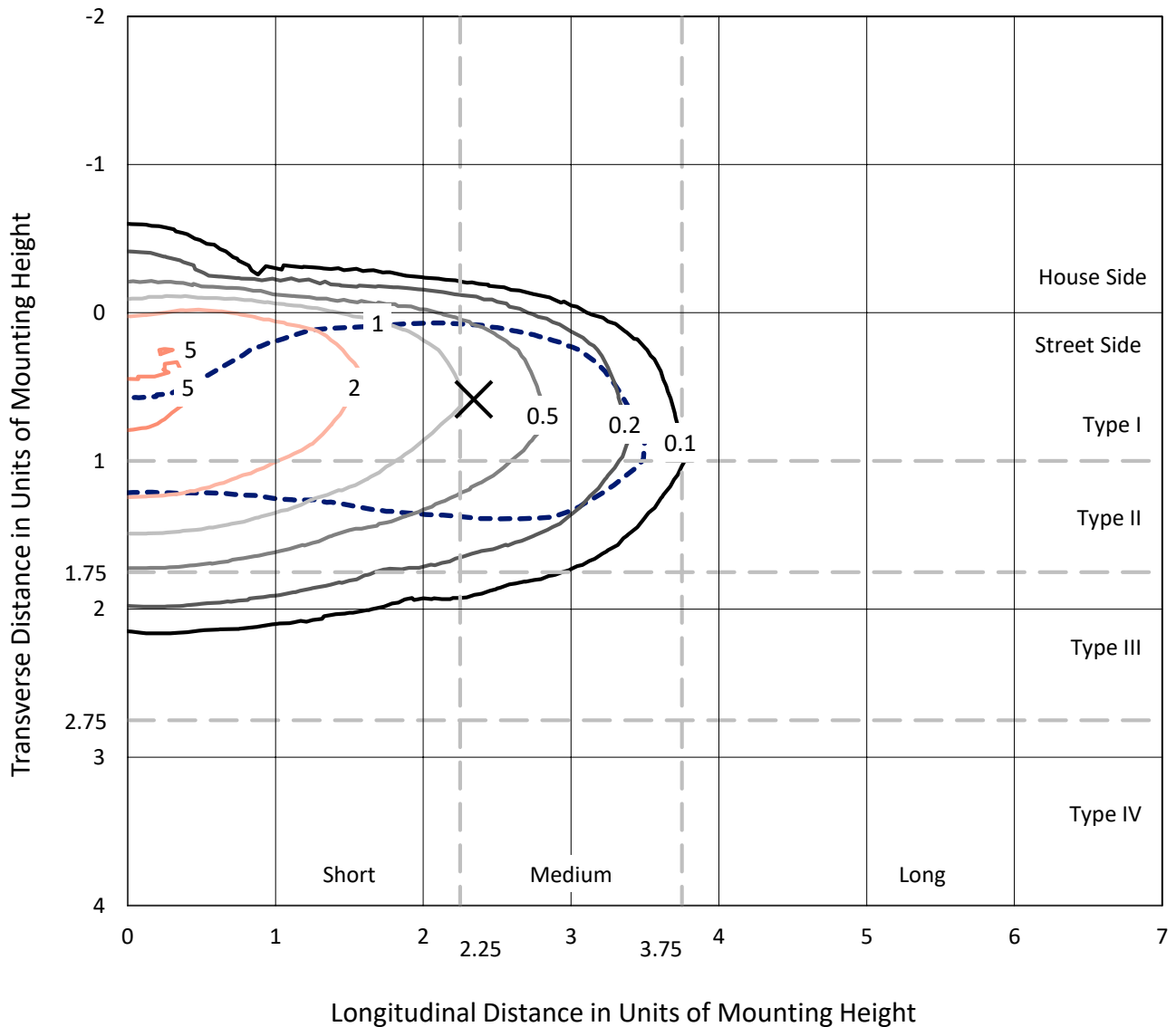
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

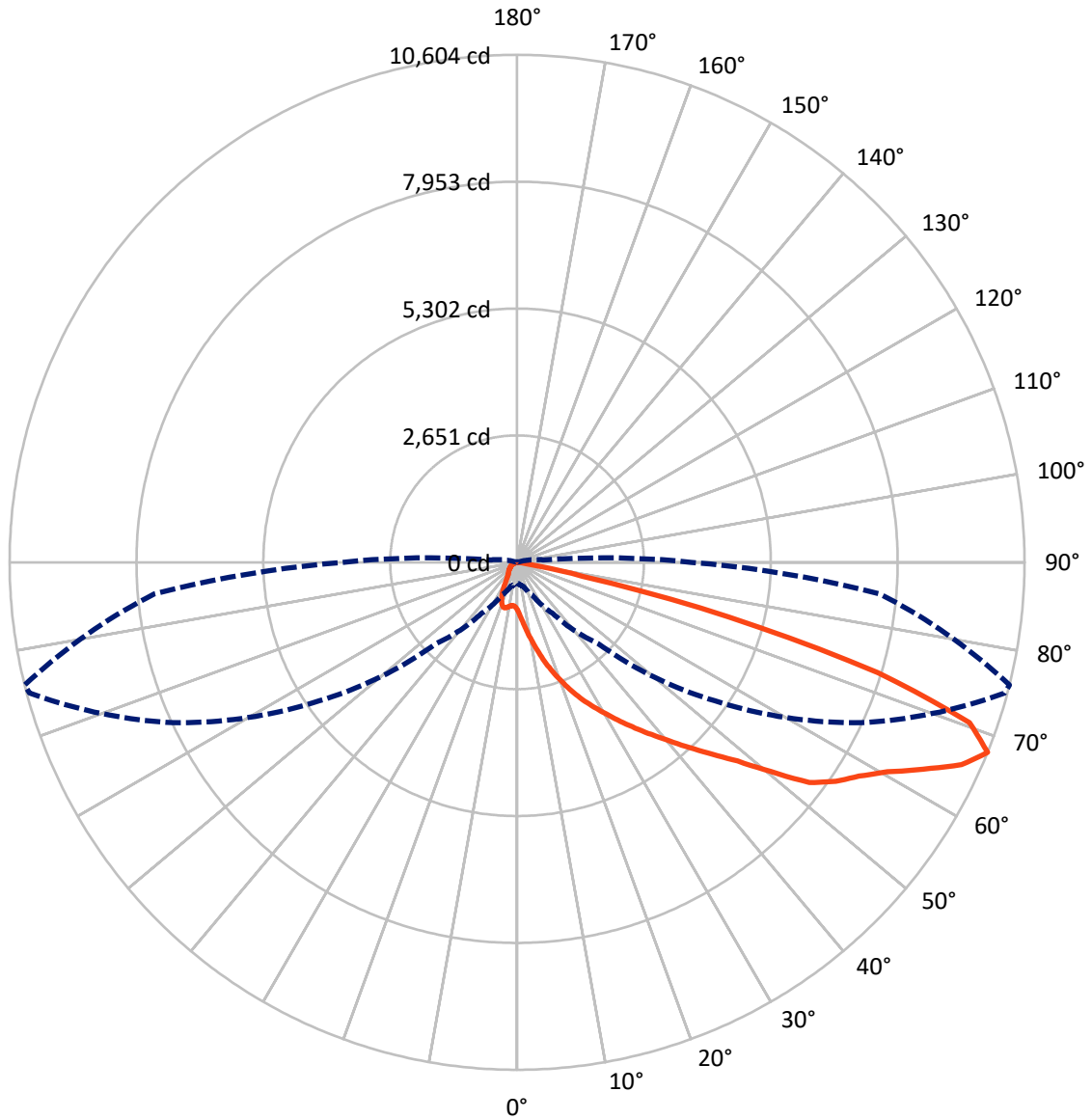
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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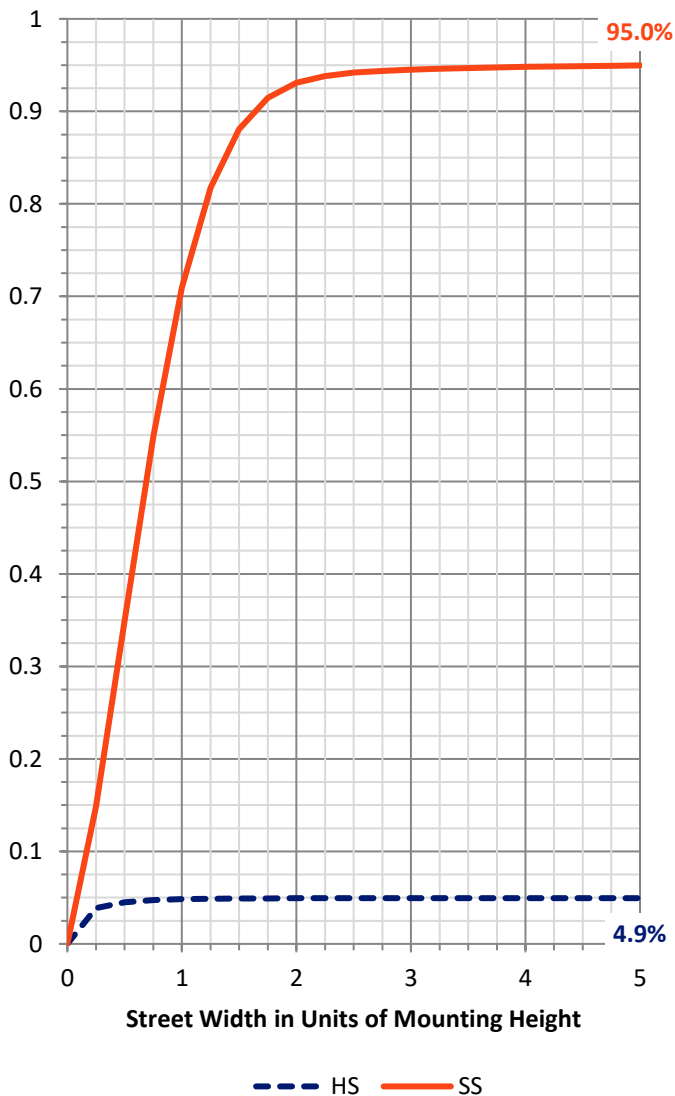
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	579.5	0.0	579.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	11090.5	0.0	11090.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	11670.0	0.0	11670.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	1.1
10°-20°	488.0	4.2
20°-30°	992.9	8.5
30°-40°	1723.3	14.8
40°-50°	2434.8	20.9
50°-60°	2761.2	23.7
60°-70°	2290.2	19.6
70°-80°	829.6	7.1
80°-90°	26.9	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°	11670.0	100.0
0°-180°	11670.0	100.0

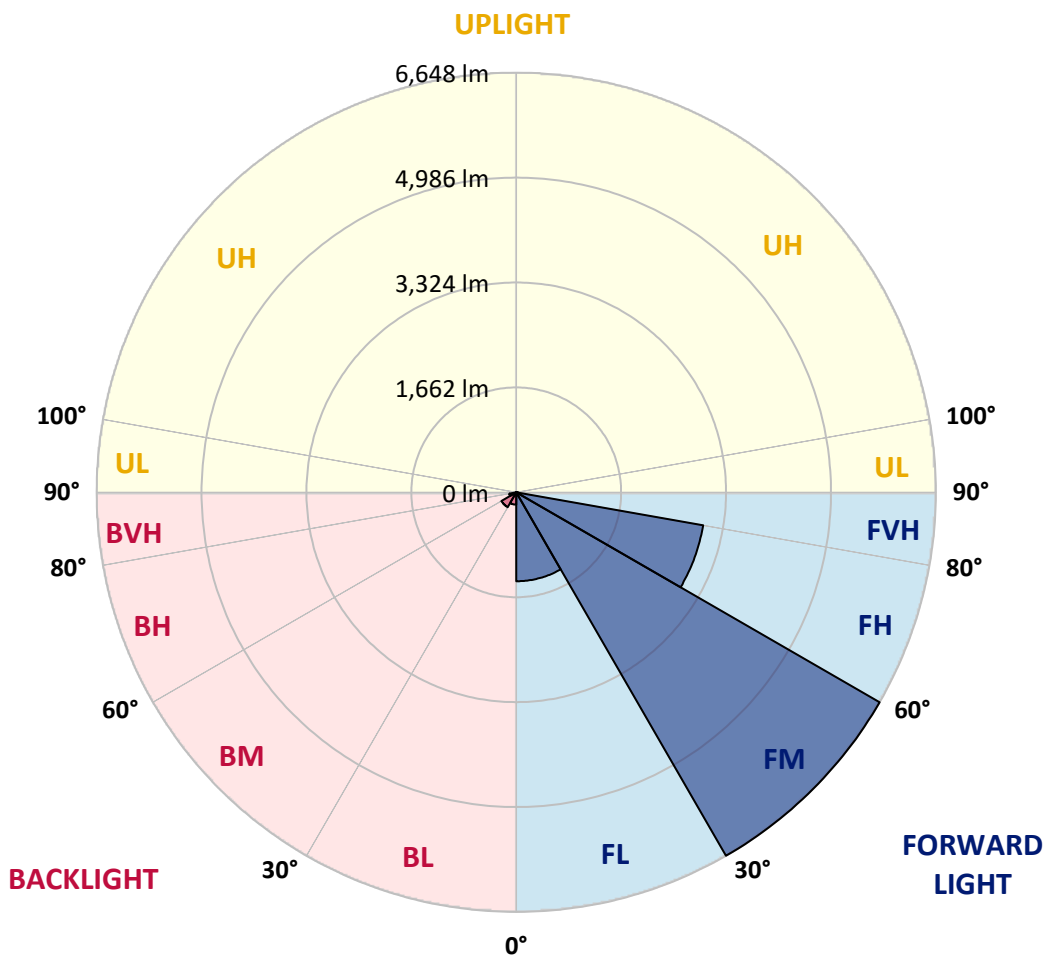


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.5	12.1			
FM (30°-60°)	6648.2	57.0			
FH (60°-80°)	3007.8	25.8			G2/5000
FVH (80°-90°)	26.1	0.2			G1/100
BL (0°-30°)	195.4	1.7	B1/500		
BM (30°-60°)	271.2	2.3	B1/1000		
BH (60°-80°)	112.0	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0
2.5°	1477.8	1444.5	1452.2	1430.7	1391.9	1312.1	1244.1	1179.7	1104.5	1101.9	1040.1
5°	1992.7	1964.6	1961.0	1917.5	1847.0	1711.5	1579.5	1429.2	1261.5	1249.2	1117.8
7.5°	2460.1	2437.6	2429.4	2377.7	2246.3	2114.4	1942.6	1721.7	1459.4	1436.9	1222.6
10°	2819.0	2808.3	2810.3	2773.5	2661.0	2538.3	2312.8	2031.0	1683.8	1649.1	1348.4
12.5°	3091.0	3093.6	3112.0	3089.5	3026.6	2935.6	2694.8	2360.9	1932.4	1884.8	1492.1
15°	3291.0	3303.8	3337.5	3365.6	3361.0	3282.3	3061.4	2695.8	2196.2	2143.5	1652.1
17.5°	3420.4	3434.7	3483.8	3546.1	3603.4	3585.0	3415.2	3019.0	2463.1	2402.3	1823.4
20°	3533.9	3550.7	3603.4	3685.7	3792.6	3815.6	3704.1	3332.4	2729.5	2655.4	2000.4
22.5°	3779.8	3779.3	3811.5	3859.6	3961.3	4020.7	3950.1	3623.4	2992.9	2915.7	2180.9
25°	4224.7	4207.8	4196.6	4158.7	4181.2	4218.0	4178.7	3895.4	3257.7	3179.5	2363.9
27.5°	4753.4	4763.6	4672.6	4570.9	4492.1	4454.3	4389.9	4147.5	3512.4	3426.5	2542.9
30°	5311.3	5314.4	5207.0	5077.1	4903.7	4760.1	4648.6	4388.3	3774.2	3680.6	2716.7
32.5°	5814.4	5794.5	5688.1	5511.2	5292.4	5130.8	4899.1	4657.3	4051.3	3960.8	2910.0
35°	6213.3	6189.8	6060.4	5899.3	5672.3	5509.7	5231.0	4925.7	4342.8	4254.3	3103.8
37.5°	6504.8	6477.1	6344.2	6178.5	5982.7	5888.1	5616.0	5217.7	4660.9	4565.8	3307.9
40°	6606.0	6582.0	6498.6	6377.4	6219.9	6198.5	6024.6	5553.7	5007.0	4905.8	3539.0
42.5°	6545.7	6522.1	6492.5	6451.6	6386.1	6406.6	6410.2	5936.7	5391.6	5291.9	3794.1
45°	6306.4	6285.4	6316.1	6375.9	6457.2	6558.4	6762.0	6348.3	5821.1	5714.7	4089.2
47.5°	5954.0	5938.7	6023.6	6172.9	6410.7	6689.9	7083.6	6780.9	6303.3	6204.6	4457.3
50°	5452.9	5450.4	5620.1	5892.7	6258.3	6753.3	7416.0	7272.8	6973.1	6869.3	4969.2
52.5°	4672.6	4677.7	5011.6	5447.8	5990.9	6710.3	7629.7	7904.8	7752.4	7644.5	5412.5
55°	3929.6	3960.3	4197.1	4826.0	5580.8	6550.8	7703.3	8199.8	8182.5	8080.2	5659.0
57.5°	3202.0	3257.7	3485.8	4073.3	4982.0	6183.1	7662.9	8327.7	8502.6	8424.3	5984.2
60°	2413.5	2439.1	2701.9	3251.1	4213.4	5512.2	7369.9	8397.2	8940.3	8886.1	6456.2
62.5°	1535.6	1599.5	1832.6	2362.4	3280.8	4580.6	6876.0	8396.2	9487.9	9517.6	7065.2
65°	808.9	883.6	1007.3	1464.0	2254.5	3540.0	6133.0	8317.5	10159.8	10201.2	7541.2
67.5°	436.2	457.6	523.1	759.9	1307.5	2398.2	5041.3	7928.8	10548.9	10603.7	7607.7
70°	319.1	330.8	355.4	420.3	658.1	1392.9	3678.6	7047.8	10047.3	10026.9	6759.4
72.5°	244.9	263.3	281.7	307.8	378.4	743.5	2290.3	5518.9	8016.8	7881.8	5052.5
75°	193.3	196.4	222.4	246.0	283.8	423.4	1017.1	3214.3	4893.0	4573.4	2620.1
77.5°	154.4	156.5	171.8	192.3	228.1	278.2	315.0	1264.5	1562.1	1393.9	568.6
80°	91.5	96.6	127.8	148.3	189.2	175.4	115.1	274.6	243.9	220.9	95.6
82.5°	51.1	55.2	72.1	117.1	131.9	83.9	57.3	74.1	57.3	55.7	27.1
85°	0.0	2.6	46.5	72.6	53.7	18.4	24.0	24.5	16.9	15.9	10.7
87.5°	0.0	0.0	14.3	13.8	2.0	3.1	5.6	8.2	6.6	6.6	5.6
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°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0
2.5°	1009.4	981.8	929.6	878.5	835.5	800.2	768.5	755.8	745.5	744.0	735.8
5°	1054.4	998.6	898.9	817.1	762.4	723.5	690.3	669.9	654.0	647.9	642.2
7.5°	1122.4	1038.0	894.8	800.8	735.3	669.9	608.5	542.0	500.6	484.8	475.5
10°	1205.2	1090.2	910.2	796.2	681.6	543.6	441.8	357.4	323.2	311.9	308.8
12.5°	1301.9	1155.1	936.8	767.5	567.1	386.1	304.8	276.1	268.5	264.9	264.9
15°	1412.8	1226.2	955.7	684.7	419.3	292.0	263.9	250.6	242.4	237.8	238.3
17.5°	1526.3	1295.7	946.5	564.5	309.4	259.8	238.8	224.5	213.2	208.6	207.6
20°	1640.9	1360.2	895.4	420.3	261.8	235.7	212.2	196.4	185.1	180.5	179.5
22.5°	1759.5	1414.9	805.4	308.3	235.2	209.1	186.1	170.3	159.5	155.4	153.4
25°	1875.1	1459.4	679.6	249.5	210.2	184.1	162.1	147.3	137.6	133.5	132.9
27.5°	1983.0	1487.5	533.8	220.4	188.2	161.6	141.6	128.3	120.2	117.1	116.6
30°	2080.1	1490.0	394.8	198.9	168.7	142.2	123.7	112.0	104.8	101.8	100.7
32.5°	2178.3	1468.6	287.4	179.5	150.8	125.3	107.4	98.2	93.1	90.5	90.5
35°	2270.9	1419.0	224.0	162.6	133.5	108.9	94.6	88.0	84.9	82.3	82.3
37.5°	2361.4	1347.9	190.2	147.8	117.1	95.1	83.3	79.3	76.7	74.1	74.1
40°	2453.4	1258.4	172.8	134.0	103.8	84.4	74.1	70.6	68.0	66.0	65.5
42.5°	2566.4	1155.1	161.6	121.2	92.0	74.7	65.5	61.4	59.3	57.3	56.2
45°	2697.3	1066.1	152.4	108.4	82.3	66.5	56.8	52.7	49.6	47.0	46.5
47.5°	2886.0	1001.7	140.1	94.6	73.1	57.8	49.1	44.5	39.9	37.3	36.8
50°	3126.8	948.5	124.3	82.3	63.9	49.1	40.9	35.3	31.2	28.6	28.6
52.5°	3246.5	879.0	109.9	71.6	53.7	41.4	33.2	26.6	24.5	22.0	22.0
55°	3294.6	825.8	95.6	60.8	44.5	34.3	26.1	20.5	18.9	17.4	16.9
57.5°	3429.6	810.5	83.3	51.6	36.8	27.1	19.9	15.3	14.3	12.3	12.3
60°	3646.9	818.1	72.1	44.0	29.7	21.0	14.8	11.8	10.7	8.7	8.7
62.5°	3881.6	808.4	60.8	37.8	23.0	15.3	10.2	8.7	8.7	5.1	4.6
65°	3926.6	720.0	52.2	31.2	17.9	11.2	6.6	5.6	7.7	1.0	0.0
67.5°	3644.3	558.4	45.0	24.0	13.3	8.7	5.1	2.6	6.6	0.0	0.0
70°	2914.1	354.9	36.3	17.4	10.2	7.2	4.1	1.0	5.1	0.0	0.0
72.5°	2060.7	206.1	28.6	12.3	8.7	5.6	3.1	0.0	3.1	0.0	0.0
75°	1042.1	109.9	17.9	9.2	6.6	4.1	2.0	0.0	0.5	0.0	0.0
77.5°	225.5	51.1	11.2	6.6	4.6	2.6	1.0	0.0	0.0	0.0	0.0
80°	49.1	22.5	7.2	4.1	2.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.9	11.8	3.6	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.0	0.5	0.5	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)