

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: P324779

Luminaire Tested: **GAN-SA5D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324779  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28911 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

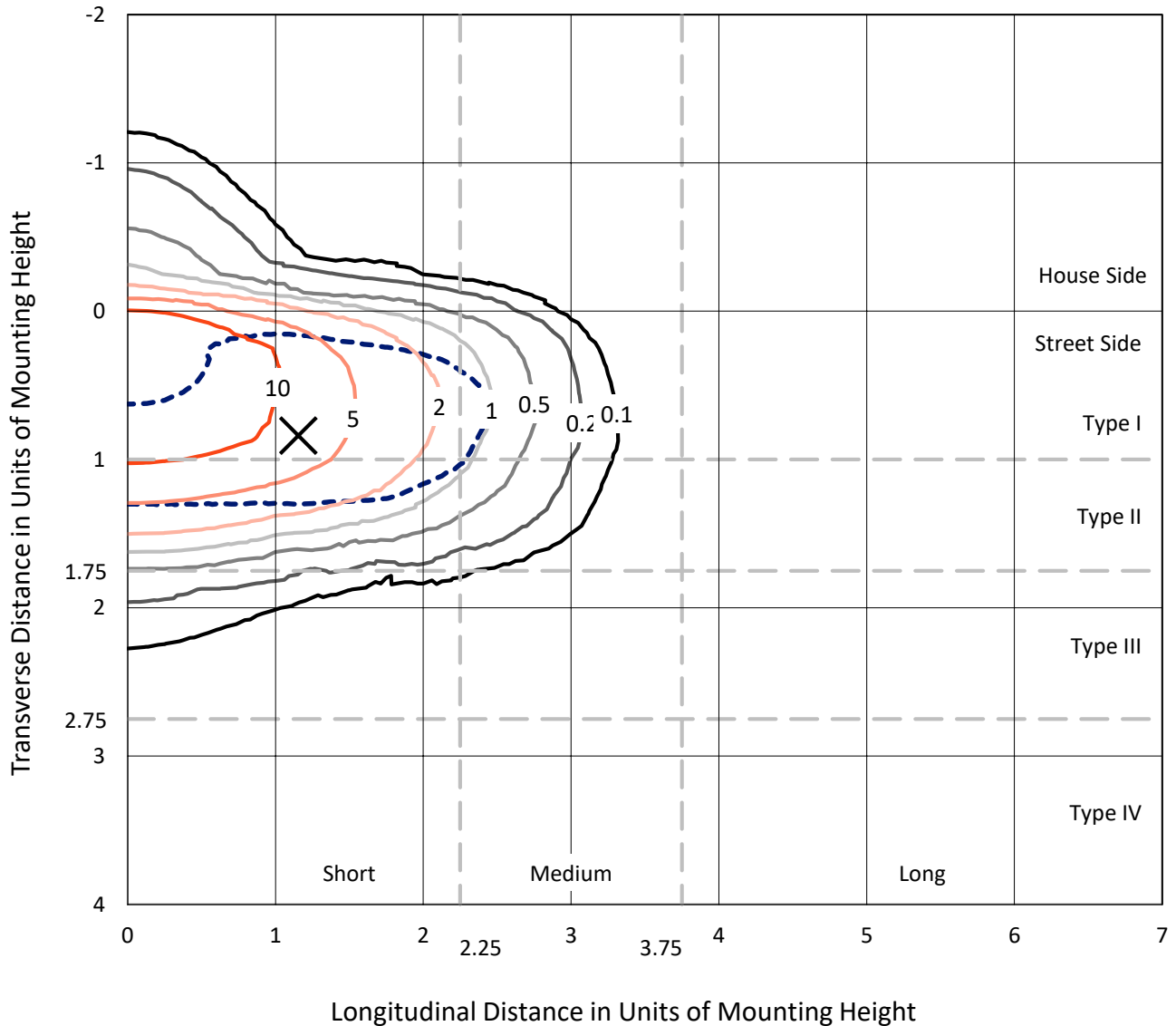
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

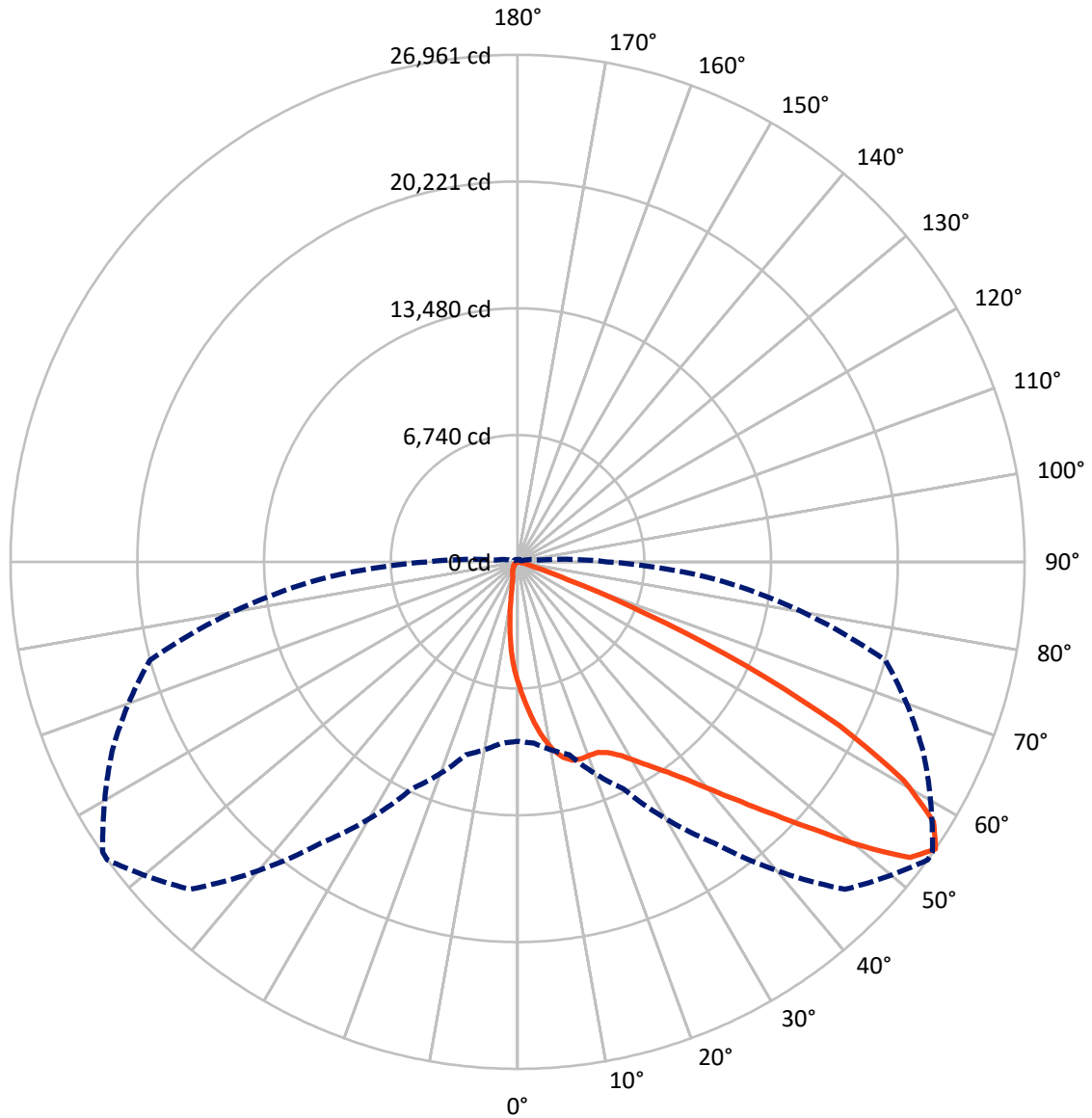
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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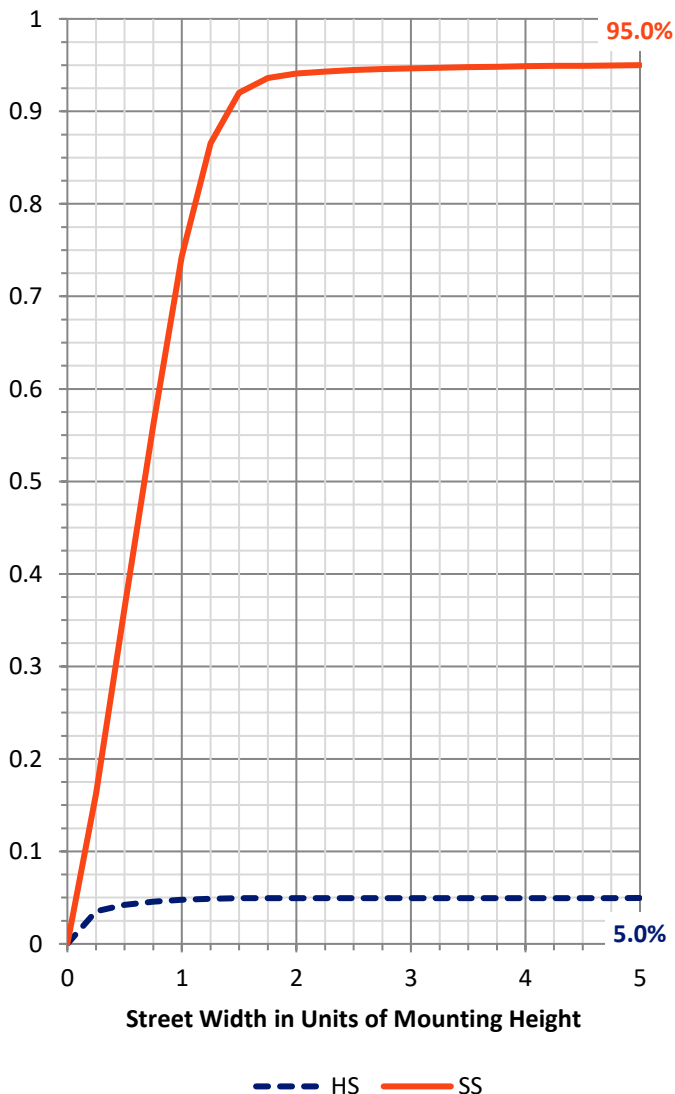
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1442.4	0.0	1442.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	27468.6	0.0	27468.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	28911.0	0.0	28911.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.3	2.1
10°-20°	1635.3	5.7
20°-30°	2792.0	9.7
30°-40°	4480.6	15.5
40°-50°	7160.0	24.8
50°-60°	7672.2	26.5
60°-70°	3939.1	13.6
70°-80°	596.7	2.1
80°-90°	38.8	0.1
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°	28911.0	100.0
0°-180°	28911.0	100.0

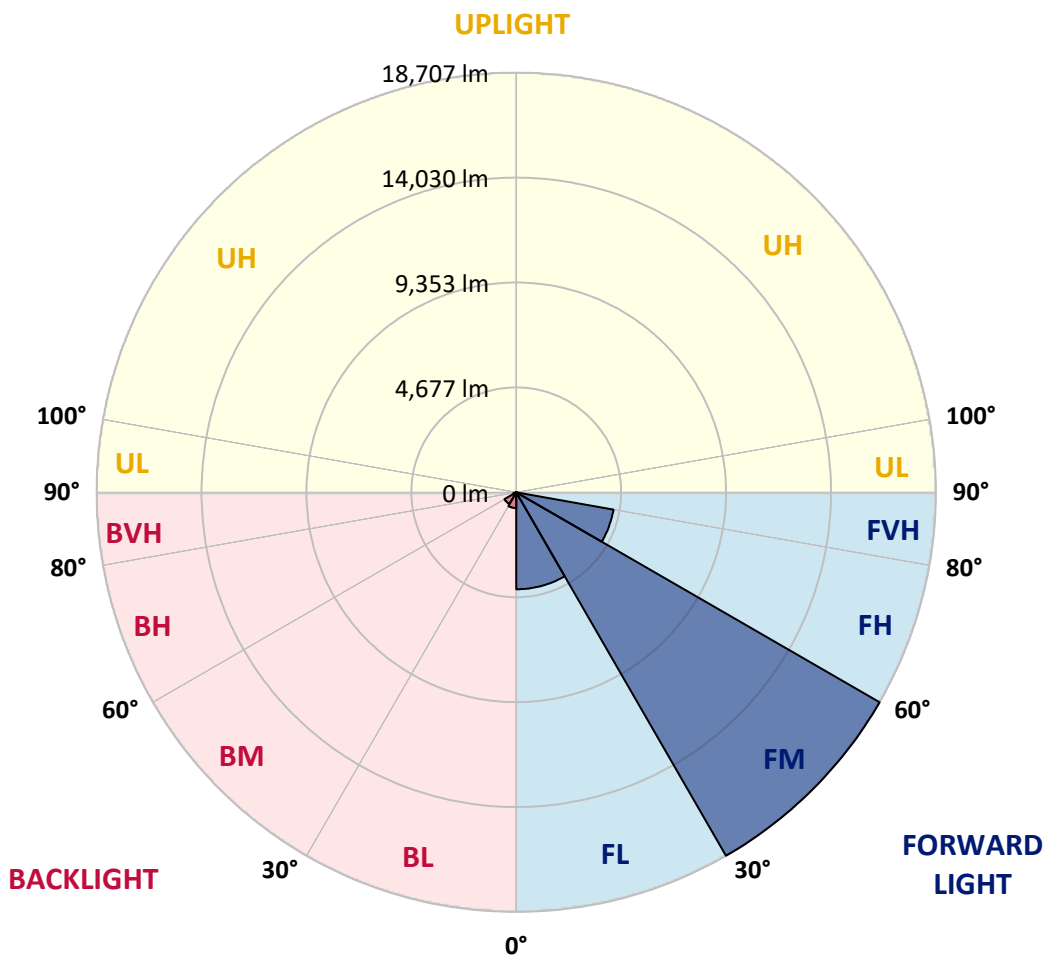


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4321.7	14.9			
FM (30°-60°)	18706.7	64.7			
FH (60°-80°)	4402.9	15.2			G2/5000
FVH (80°-90°)	37.3	0.1			G1/100
BL (0°-30°)	701.8	2.4	B2/1000		
BM (30°-60°)	606.1	2.1	B1/1000		
BH (60°-80°)	132.9	0.5	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9
2.5°	8125.5	8004.4	8008.1	7953.2	7752.2	7594.8	7431.3	7392.6	7137.9	6870.7	6613.5
5°	9530.1	9441.4	9420.2	9314.1	9034.4	8738.5	8421.4	8347.7	7849.5	7302.7	6764.6
7.5°	10251.7	10253.0	10235.5	10196.8	10022.0	9734.8	9347.8	9270.4	8592.4	7772.1	6921.9
10°	10042.0	10089.4	10186.8	10315.4	10449.0	10412.8	10121.9	10052.0	9315.3	8269.0	7096.7
12.5°	9552.5	9558.8	9667.4	9878.4	10263.0	10657.5	10662.5	10638.8	10005.8	8788.4	7288.9
15°	9309.1	9332.8	9372.8	9508.8	9873.4	10505.2	10957.1	10990.9	10638.8	9340.3	7493.7
17.5°	9468.9	9502.6	9468.9	9485.1	9696.1	10264.2	11008.3	11094.5	11191.9	9885.9	7687.2
20°	9902.1	9933.3	9873.4	9807.2	9848.4	10194.3	10972.1	11088.2	11625.1	10370.3	7849.5
22.5°	10486.4	10498.9	10407.8	10299.2	10269.2	10431.5	11002.1	11122.0	11972.2	10808.6	7951.9
25°	11129.4	11140.7	11027.1	10902.2	10831.0	10897.2	11248.1	11337.9	12278.1	11226.8	8010.6
27.5°	11829.9	11839.9	11697.5	11544.0	11461.6	11464.1	11653.8	11750.0	12604.0	11703.8	8058.0
30°	12570.3	12565.3	12434.2	12220.7	12115.8	12113.3	12238.1	12335.5	13075.9	12315.6	8123.0
32.5°	13401.8	13391.8	13205.8	12941.1	12822.5	12839.9	12951.1	13007.2	13661.5	12967.3	8239.1
35°	14496.7	14468.0	14187.1	13858.7	13640.2	13634.0	13727.6	13772.6	14408.1	13756.4	8432.6
37.5°	15917.6	15891.4	15510.6	15033.6	14726.5	14611.6	14722.7	14780.2	15473.1	14768.9	8743.5
40°	17318.4	17292.2	17066.2	16629.2	16156.0	15880.1	15967.5	16028.7	16802.8	15997.5	9135.5
42.5°	18284.8	18307.3	18385.9	18422.1	17978.9	17399.6	17439.5	17503.2	18199.9	17310.9	9583.8
45°	18539.5	18588.2	19032.7	19905.4	20071.5	19619.5	19201.2	19236.2	19619.5	18624.4	10032.0
47.5°	17774.1	17864.0	18721.8	20344.9	21750.7	22070.4	21278.8	21232.6	20981.6	19686.9	10350.4
50°	16034.9	16117.3	17228.5	19629.5	22260.1	24410.1	23768.4	23632.3	22176.5	20322.4	10462.7
52.5°	13517.9	13617.8	14520.5	17377.1	21300.0	25453.9	26125.6	26012.0	23053.0	20372.3	10481.5
55°	9546.3	9667.4	10622.5	13318.1	18257.3	24623.6	26960.9	26927.2	23780.9	20240.0	10521.4
57.5°	5365.0	5452.4	6482.4	8537.5	13371.8	21447.3	26088.1	26311.6	24220.3	20010.3	10581.3
60°	2382.2	2405.9	2939.1	4250.0	7828.3	16390.8	23589.8	23966.9	23843.3	19703.1	10682.5
62.5°	1321.0	1301.0	1301.0	1766.7	3402.3	10146.8	19236.2	19859.2	22233.9	19339.8	10687.5
65°	1035.0	1016.3	962.6	970.1	1296.0	4503.5	13320.6	14428.1	19177.5	18274.8	10327.9
67.5°	877.7	861.5	807.8	786.6	805.3	1485.8	7318.9	8468.8	14551.7	15506.8	8945.8
70°	741.6	730.4	702.9	676.7	629.3	734.1	2800.5	3582.0	8967.0	10315.4	6106.6
72.5°	596.8	591.8	601.8	579.3	521.9	489.4	957.6	1159.9	4027.8	4603.3	2515.8
75°	514.4	511.9	516.9	494.4	429.5	340.9	486.9	531.9	1136.2	1126.2	509.4
77.5°	334.6	338.4	428.2	418.3	369.6	227.2	252.2	272.2	344.6	258.4	154.8
80°	213.5	211.0	217.2	347.1	332.1	173.5	126.1	132.3	166.1	127.4	74.9
82.5°	129.8	127.4	142.3	162.3	167.3	121.1	77.4	78.7	103.6	82.4	40.0
85°	11.2	15.0	86.1	79.9	57.4	37.5	37.5	40.0	54.9	48.7	22.5
87.5°	0.0	0.0	15.0	22.5	12.5	13.7	13.7	15.0	21.2	21.2	11.2
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°	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9	6474.9
2.5°	6479.9	6350.1	6087.9	5835.7	5622.2	5416.1	5181.4	4949.2	4840.6	4796.9	4751.9
5°	6491.1	6223.9	5683.3	5139.0	4574.6	4066.5	3633.2	3188.8	2966.5	2869.1	2824.2
7.5°	6506.1	6099.1	5225.1	4311.2	3402.3	2713.1	2111.3	1724.2	1556.9	1530.7	1465.8
10°	6508.6	5948.0	4693.2	3397.3	2281.1	1635.6	1258.5	1058.8	985.1	972.6	951.4
12.5°	6513.6	5769.5	4102.7	2515.8	1520.7	1093.7	910.2	844.0	824.0	822.8	822.8
15°	6528.6	5582.2	3489.7	1812.9	1092.5	866.5	799.1	772.8	765.4	769.1	767.8
17.5°	6528.6	5361.2	2887.9	1350.9	882.7	779.1	741.6	724.2	721.7	725.4	726.6
20°	6481.1	5092.8	2336.0	1051.3	782.8	722.9	689.2	673.0	666.7	669.2	670.5
22.5°	6367.5	4763.2	1886.5	870.2	716.7	671.7	635.5	610.5	600.5	601.8	601.8
25°	6190.2	4372.4	1475.8	752.9	663.0	616.8	574.3	545.6	539.4	538.1	540.6
27.5°	5963.0	3940.4	1174.9	663.0	599.3	555.6	513.1	489.4	484.4	485.7	486.9
30°	5739.5	3492.2	926.4	586.8	528.1	486.9	454.5	443.2	443.2	447.0	448.2
32.5°	5534.8	3061.4	732.9	520.6	464.5	427.0	408.3	407.0	413.3	415.8	417.0
35°	5358.7	2663.1	606.8	469.4	414.5	382.1	375.8	380.8	388.3	393.3	394.5
37.5°	5233.9	2307.3	530.6	427.0	375.8	349.6	348.3	358.3	368.3	379.6	382.1
40°	5181.4	2006.4	478.2	389.5	344.6	324.6	320.9	334.6	353.3	369.6	372.1
42.5°	5137.7	1760.4	433.2	353.3	319.6	290.9	289.7	307.1	329.6	345.8	349.6
45°	5100.3	1563.2	392.0	314.6	287.2	249.7	253.5	275.9	293.4	310.9	314.6
47.5°	5022.9	1400.9	347.1	273.4	237.2	213.5	221.0	241.0	254.7	280.9	284.7
50°	4884.3	1268.5	300.9	223.5	193.5	184.8	196.0	209.8	227.2	249.7	252.2
52.5°	4790.6	1168.6	260.9	187.3	159.8	162.3	173.5	178.5	188.5	197.3	194.8
55°	4736.9	1113.7	228.5	162.3	136.1	143.6	146.1	139.8	134.8	126.1	122.4
57.5°	4730.7	1063.8	203.5	141.1	119.9	123.6	114.9	93.6	76.2	66.2	63.7
60°	4720.7	1002.6	183.5	118.6	106.1	101.1	82.4	51.2	36.2	33.7	33.7
62.5°	4612.1	907.7	168.6	99.9	89.9	76.2	47.4	23.7	20.0	21.2	21.2
65°	4266.2	775.3	153.6	81.2	71.2	54.9	23.7	13.7	7.5	8.7	8.7
67.5°	3627.0	618.0	137.3	62.4	53.7	35.0	13.7	6.2	0.0	0.0	0.0
70°	2428.4	383.3	116.1	43.7	35.0	21.2	10.0	1.2	0.0	0.0	0.0
72.5°	931.4	207.3	93.6	26.2	22.5	15.0	6.2	0.0	0.0	0.0	0.0
75°	209.8	136.1	64.9	18.7	16.2	10.0	2.5	0.0	0.0	0.0	0.0
77.5°	79.9	98.6	37.5	12.5	11.2	6.2	0.0	0.0	0.0	0.0	0.0
80°	38.7	58.7	17.5	7.5	6.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	22.5	7.5	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	11.2	3.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	3.7	1.2	1.2	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)