

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: P324780

Luminaire Tested: **GAN-SA6D-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324780  
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-SA6D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 34596 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

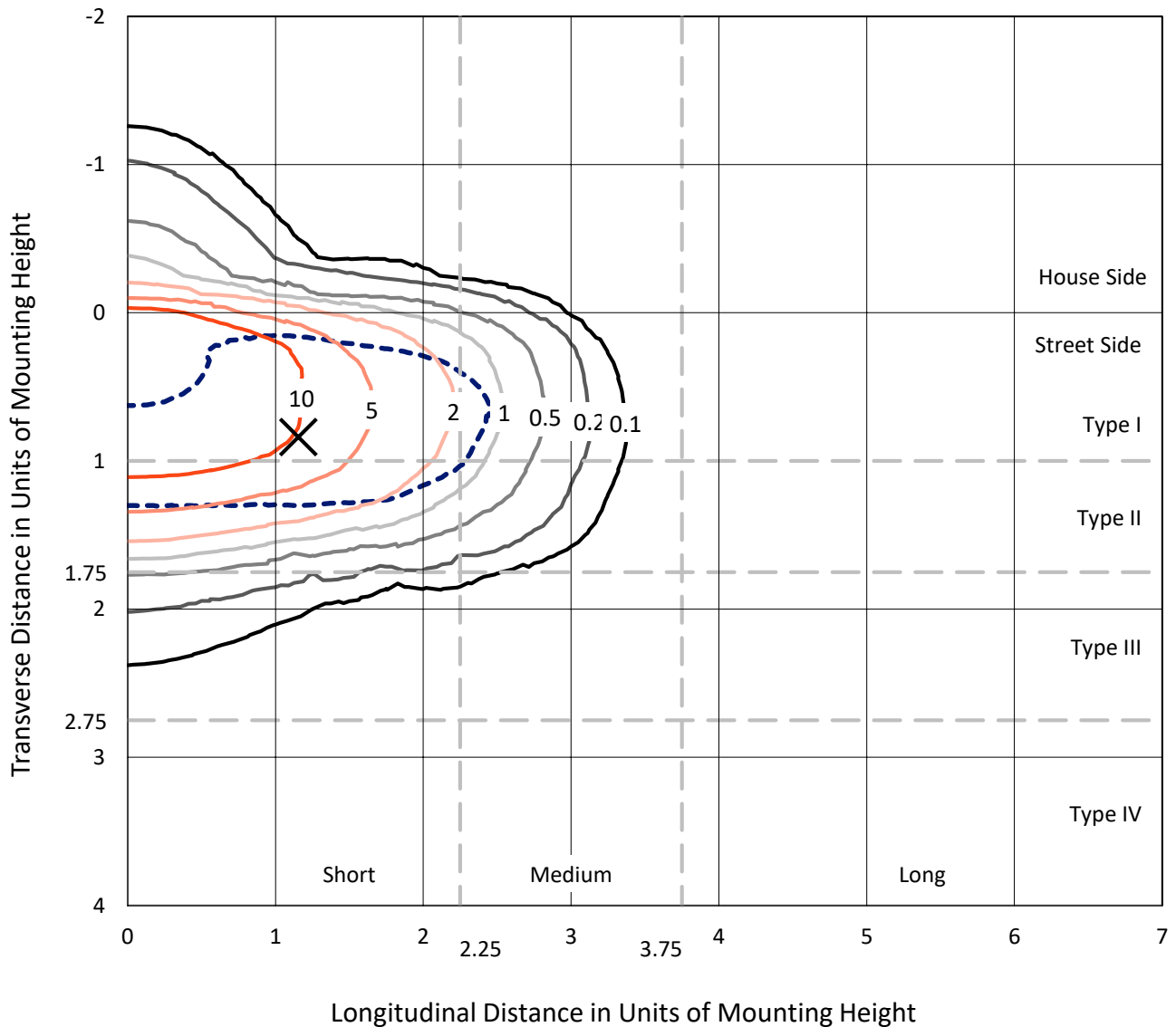
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

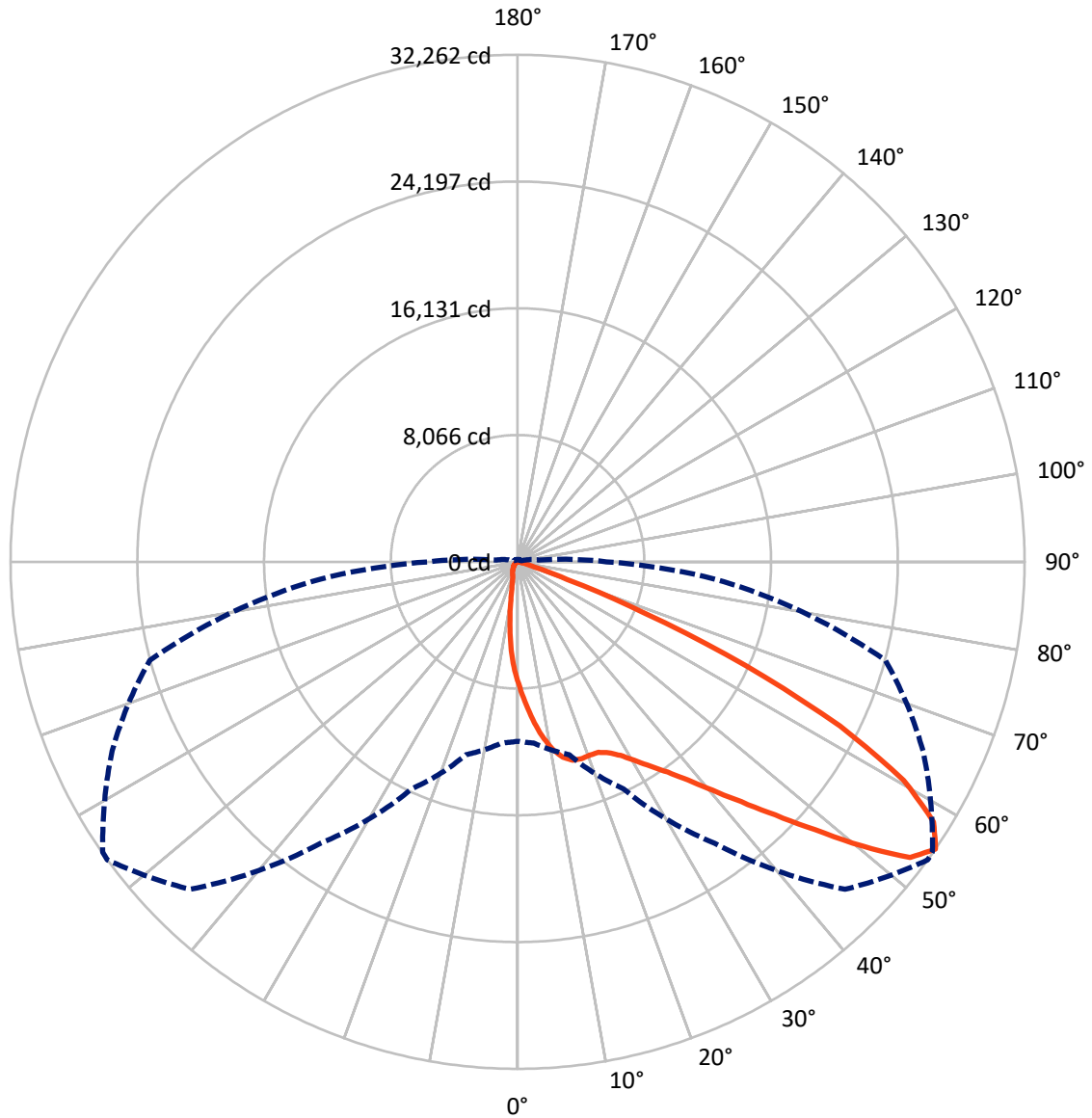
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 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	1726.1	0.0	1726.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	32869.9	0.0	32869.9
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	34596.0	0.0	34596.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	713.5	2.1
10°-20°	1956.8	5.7
20°-30°	3341.0	9.7
30°-40°	5361.7	15.5
40°-50°	8568.0	24.8
50°-60°	9180.8	26.5
60°-70°	4713.7	13.6
70°-80°	714.0	2.1
80°-90°	46.5	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°	34596.0	100.0
0°-180°	34596.0	100.0

**Coefficient of Utilization**



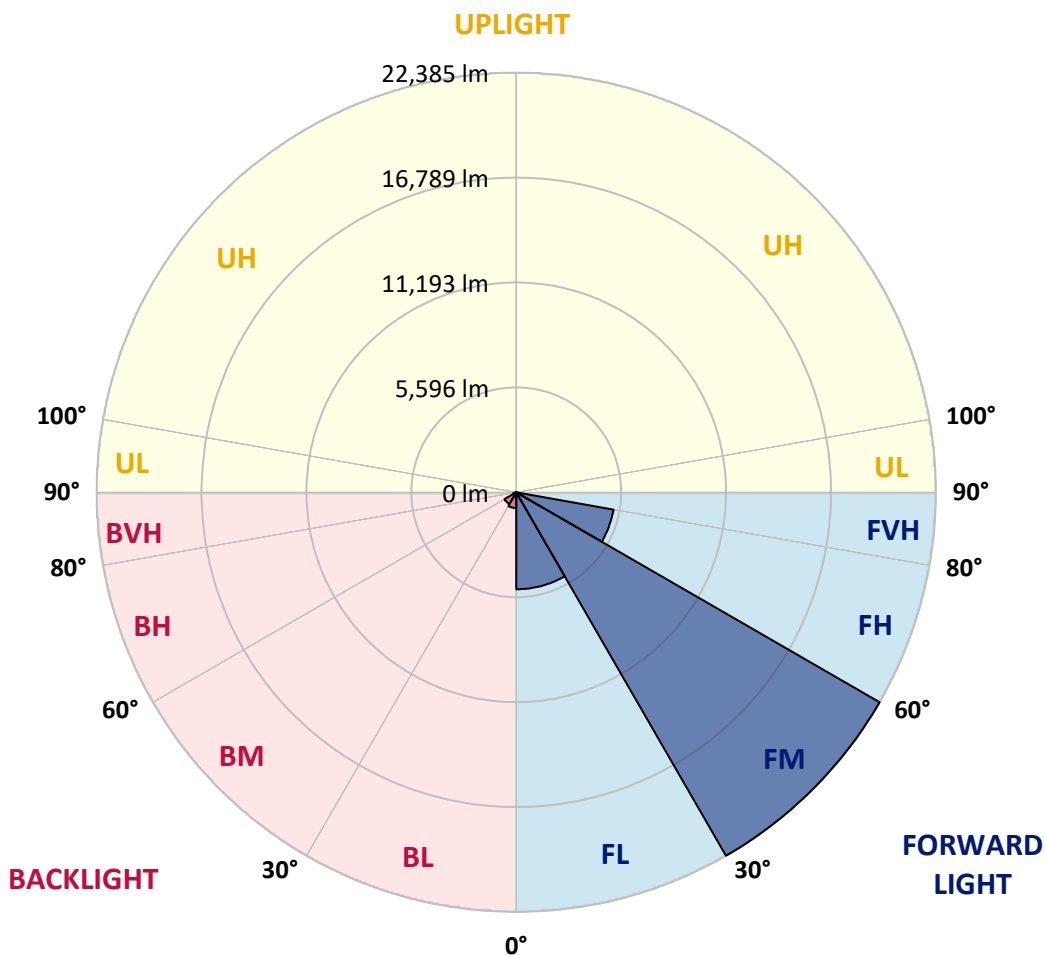
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 CATALOG NUMBER: GAN-SA6D-730-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5171.5	14.9			
FM (30°-60°)	22385.1	64.7			
FH (60°-80°)	5268.7	15.2			G3/7500
FVH (80°-90°)	44.6	0.1			G1/100
BL (0°-30°)	839.8	2.4	B2/1000		
BM (30°-60°)	725.3	2.1	B1/1000		
BH (60°-80°)	159.1	0.5	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1
2.5°	9723.2	9578.3	9582.8	9517.1	9276.5	9088.3	8892.6	8846.2	8541.5	8221.7	7914.0
5°	11404.0	11298.0	11272.6	11145.6	10810.9	10456.8	10077.3	9989.2	9393.1	8738.7	8094.7
7.5°	12267.6	12269.1	12248.2	12201.9	11992.7	11649.1	11185.9	11093.3	10282.0	9300.4	8283.0
10°	12016.6	12073.4	12189.9	12343.8	12503.7	12460.3	12112.2	12028.6	11147.1	9895.1	8492.1
12.5°	11430.9	11438.4	11568.4	11820.9	12281.0	12753.2	12759.1	12730.8	11973.3	10516.6	8722.2
15°	11139.6	11168.0	11215.8	11378.6	11814.9	12570.9	13111.7	13152.1	12730.8	11176.9	8967.3
17.5°	11330.8	11371.2	11330.8	11350.3	11602.8	12282.5	13173.0	13276.1	13392.6	11829.8	9198.8
20°	11849.3	11886.6	11814.9	11735.7	11785.0	12198.9	13129.7	13268.6	13911.0	12409.5	9393.1
22.5°	12548.5	12563.4	12454.4	12324.4	12288.5	12482.7	13165.5	13308.9	14326.4	12933.9	9515.6
25°	13317.9	13331.4	13195.4	13046.0	12960.8	13040.0	13459.8	13567.4	14692.4	13434.4	9585.8
27.5°	14156.1	14168.0	13997.7	13813.9	13715.3	13718.3	13945.4	14060.5	15082.4	14005.2	9642.6
30°	15042.0	15036.1	14879.2	14623.7	14498.2	14495.2	14644.6	14761.2	15647.1	14737.3	9720.3
32.5°	16037.1	16025.1	15802.5	15485.8	15343.8	15364.8	15497.7	15565.0	16347.8	15517.1	9859.2
35°	17347.4	17313.0	16976.8	16583.9	16322.4	16315.0	16427.0	16480.8	17241.3	16461.4	10090.8
37.5°	19047.6	19016.2	18560.5	17989.8	17622.3	17484.8	17617.8	17686.5	18515.7	17673.1	10462.8
40°	20723.9	20692.5	20422.1	19899.2	19332.9	19002.8	19107.3	19180.5	20106.9	19143.2	10931.9
42.5°	21880.3	21907.2	22001.3	22044.6	21514.2	20821.0	20868.8	20945.0	21778.7	20714.9	11468.3
45°	22185.1	22243.3	22775.2	23819.6	24018.3	23477.4	22976.9	23018.7	23477.4	22286.7	12004.6
47.5°	21269.2	21376.8	22403.2	24345.5	26027.8	26410.2	25463.0	25407.7	25107.4	23558.1	12385.6
50°	19188.0	19286.6	20616.3	23489.4	26637.3	29210.1	28442.1	28279.3	26537.2	24318.6	12520.1
52.5°	16176.0	16295.5	17375.7	20794.1	25488.4	30459.1	31262.9	31126.9	27586.0	24378.3	12542.5
55°	11423.5	11568.4	12711.3	15937.0	21847.4	29465.5	32262.4	32222.1	28457.1	24220.0	12590.3
57.5°	6419.9	6524.5	7757.1	10216.3	16001.2	25664.7	31218.1	31485.5	28983.0	23945.1	12662.0
60°	2850.6	2879.0	3517.0	5085.7	9367.7	19613.8	28228.5	28679.7	28531.8	23577.5	12783.0
62.5°	1580.7	1556.8	1556.8	2114.1	4071.3	12142.1	23018.7	23764.3	26605.9	23142.8	12789.0
65°	1238.6	1216.2	1151.9	1160.9	1550.8	5389.0	15940.0	17265.2	22948.5	21868.3	12358.7
67.5°	1050.3	1030.9	966.6	941.2	963.7	1777.9	8758.1	10134.1	17413.1	18556.0	10704.8
70°	887.5	874.0	841.1	809.8	753.0	878.5	3351.1	4286.4	10730.2	12343.8	7307.4
72.5°	714.2	708.2	720.1	693.2	624.5	585.7	1145.9	1388.0	4819.8	5508.5	3010.5
75°	615.5	612.6	618.5	591.6	514.0	407.9	582.7	636.5	1359.6	1347.6	609.6
77.5°	400.4	404.9	512.5	500.5	442.2	271.9	301.8	325.7	412.4	309.3	185.3
80°	255.5	252.5	260.0	415.3	397.4	207.7	150.9	158.4	198.7	152.4	89.6
82.5°	155.4	152.4	170.3	194.2	200.2	144.9	92.6	94.1	124.0	98.6	47.8
85°	13.4	17.9	103.1	95.6	68.7	44.8	44.8	47.8	65.7	58.3	26.9
87.5°	0.0	0.0	17.9	26.9	14.9	16.4	16.4	17.9	25.4	25.4	13.4
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°	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1	7748.1
2.5°	7754.1	7598.7	7285.0	6983.2	6727.7	6481.2	6200.3	5922.4	5792.4	5740.1	5686.3
5°	7767.5	7447.8	6800.9	6149.5	5474.2	4866.1	4347.7	3815.8	3549.9	3433.3	3379.5
7.5°	7785.5	7298.4	6252.6	5158.9	4071.3	3246.6	2526.4	2063.3	1863.1	1831.7	1754.0
10°	7788.5	7117.6	5616.1	4065.3	2729.6	1957.2	1506.0	1266.9	1178.8	1163.9	1138.5
12.5°	7794.4	6904.0	4909.4	3010.5	1819.7	1308.8	1089.2	1010.0	986.1	984.6	984.6
15°	7812.4	6679.9	4175.9	2169.4	1307.3	1036.9	956.2	924.8	915.8	920.3	918.8
17.5°	7812.4	6415.4	3455.7	1616.6	1056.3	932.3	887.5	866.5	863.6	868.0	869.5
20°	7755.6	6094.2	2795.4	1258.0	936.8	865.1	824.7	805.3	797.8	800.8	802.3
22.5°	7619.6	5699.8	2257.5	1041.3	857.6	803.8	760.5	730.6	718.6	720.1	720.1
25°	7407.5	5232.1	1766.0	900.9	793.3	738.1	687.3	652.9	645.4	643.9	646.9
27.5°	7135.6	4715.2	1405.9	793.3	717.1	664.8	614.1	585.7	579.7	581.2	582.7
30°	6868.1	4178.8	1108.6	702.2	632.0	582.7	543.8	530.4	530.4	534.9	536.4
32.5°	6623.1	3663.4	877.0	623.0	555.8	511.0	488.6	487.1	494.5	497.5	499.0
35°	6412.4	3186.8	726.1	561.8	496.0	457.2	449.7	455.7	464.6	470.6	472.1
37.5°	6263.0	2761.0	635.0	511.0	449.7	418.3	416.8	428.8	440.7	454.2	457.2
40°	6200.3	2400.9	572.2	466.1	412.4	388.5	384.0	400.4	422.8	442.2	445.2
42.5°	6148.0	2106.6	518.4	422.8	382.5	348.1	346.6	367.5	394.4	413.9	418.3
45°	6103.2	1870.5	469.1	376.5	343.6	298.8	303.3	330.2	351.1	372.0	376.5
47.5°	6010.5	1676.3	415.3	327.2	283.9	255.5	264.4	288.4	304.8	336.2	340.6
50°	5844.7	1517.9	360.1	267.4	231.6	221.1	234.6	251.0	271.9	298.8	301.8
52.5°	5732.6	1398.4	312.3	224.1	191.2	194.2	207.7	213.6	225.6	236.1	233.1
55°	5668.4	1332.7	273.4	194.2	162.9	171.8	174.8	167.3	161.4	150.9	146.4
57.5°	5660.9	1272.9	243.5	168.8	143.4	147.9	137.5	112.1	91.1	79.2	76.2
60°	5649.0	1199.7	219.6	141.9	127.0	121.0	98.6	61.3	43.3	40.3	40.3
62.5°	5519.0	1086.2	201.7	119.5	107.6	91.1	56.8	28.4	23.9	25.4	25.4
65°	5105.2	927.8	183.8	97.1	85.2	65.7	28.4	16.4	9.0	10.5	10.5
67.5°	4340.2	739.6	164.3	74.7	64.2	41.8	16.4	7.5	0.0	0.0	0.0
70°	2905.9	458.7	138.9	52.3	41.8	25.4	12.0	1.5	0.0	0.0	0.0
72.5°	1114.6	248.0	112.1	31.4	26.9	17.9	7.5	0.0	0.0	0.0	0.0
75°	251.0	162.9	77.7	22.4	19.4	12.0	3.0	0.0	0.0	0.0	0.0
77.5°	95.6	118.0	44.8	14.9	13.4	7.5	0.0	0.0	0.0	0.0	0.0
80°	46.3	70.2	20.9	9.0	7.5	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	26.9	9.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	13.4	4.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	4.5	1.5	1.5	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)