

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: P324823

Luminaire Tested: **GAN-SA9D-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324823  
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-SA9D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

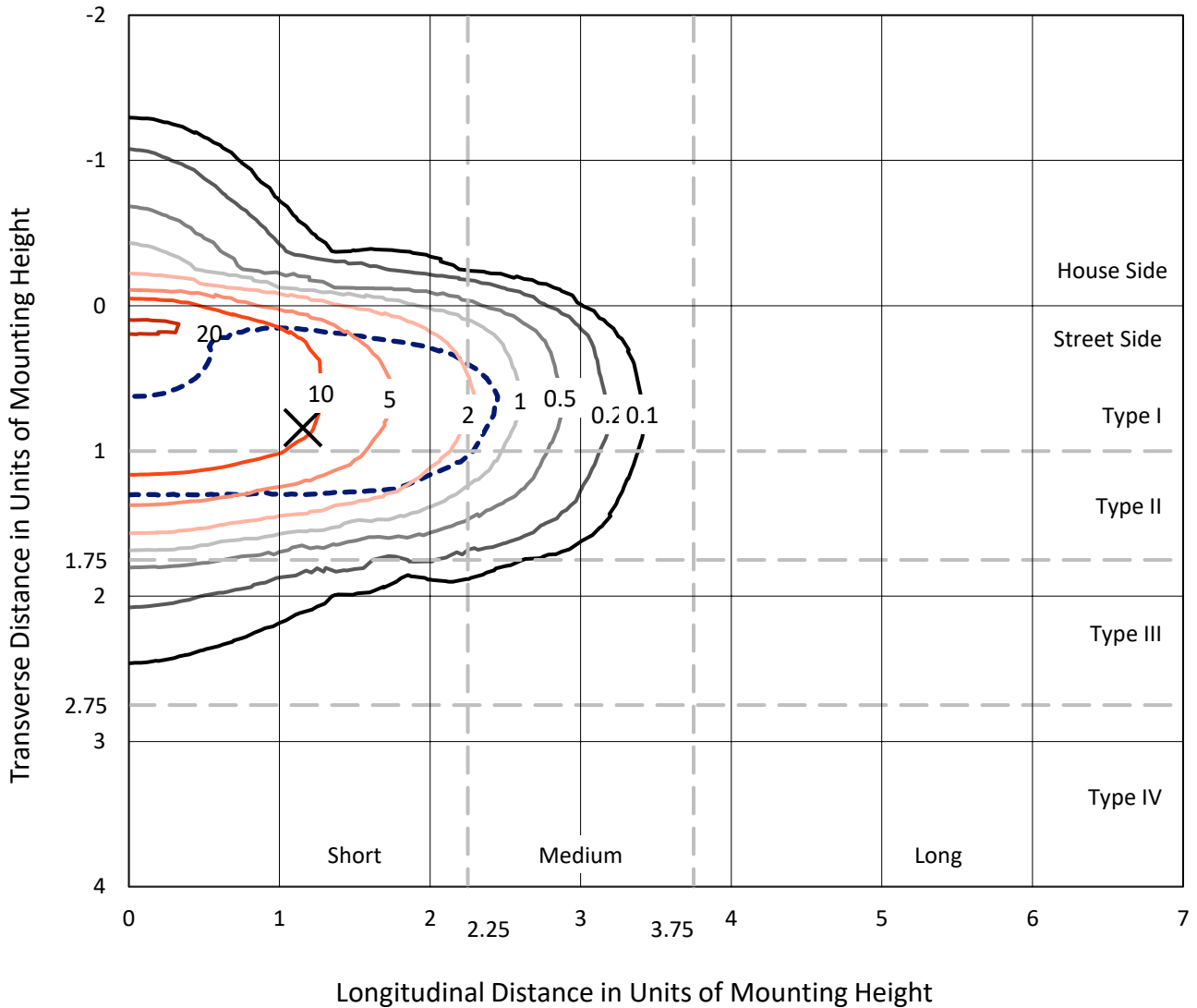
Lumens per Lamp: N/A  
Luminaire Lumens: 56786 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

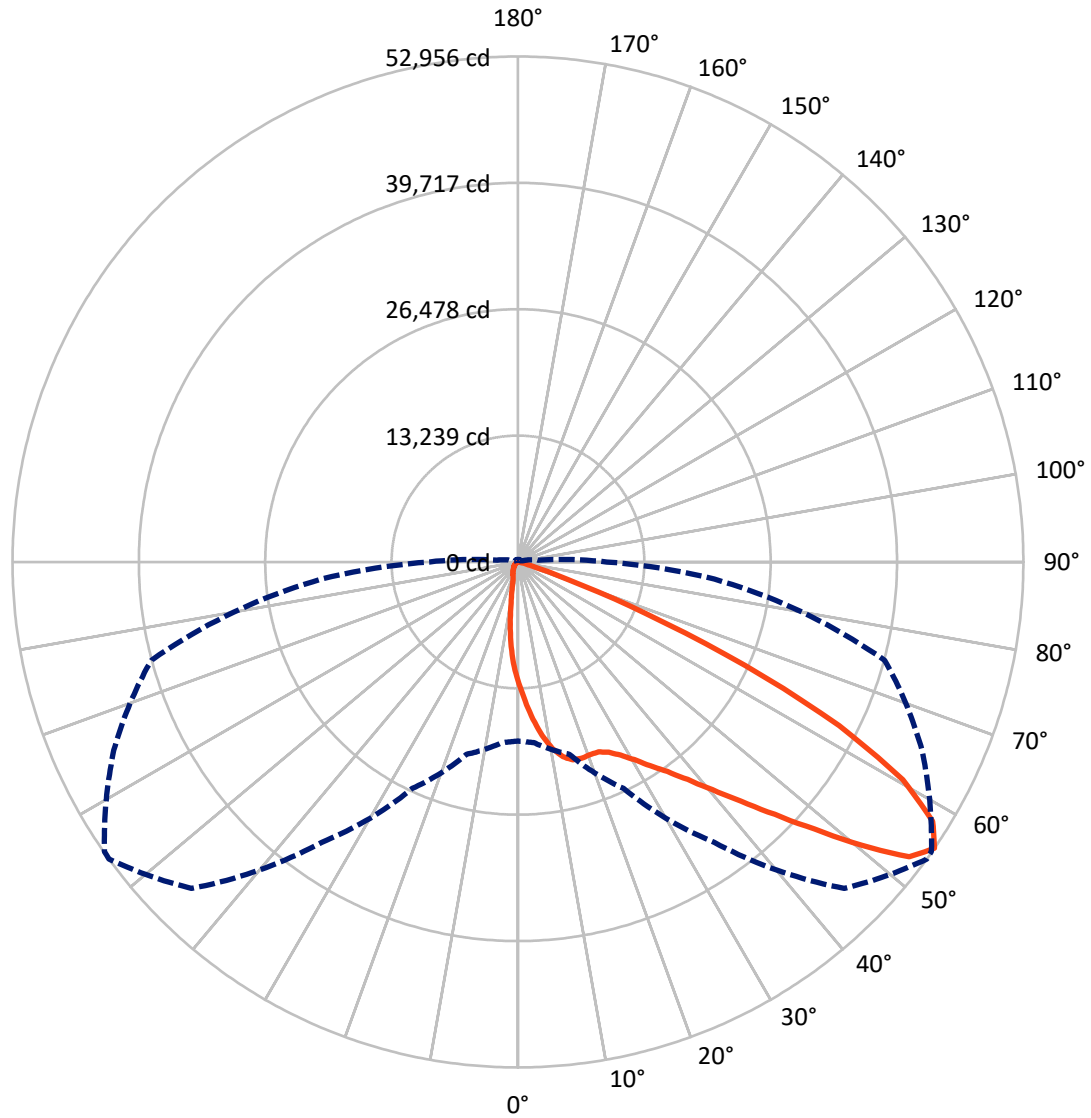
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 21.7 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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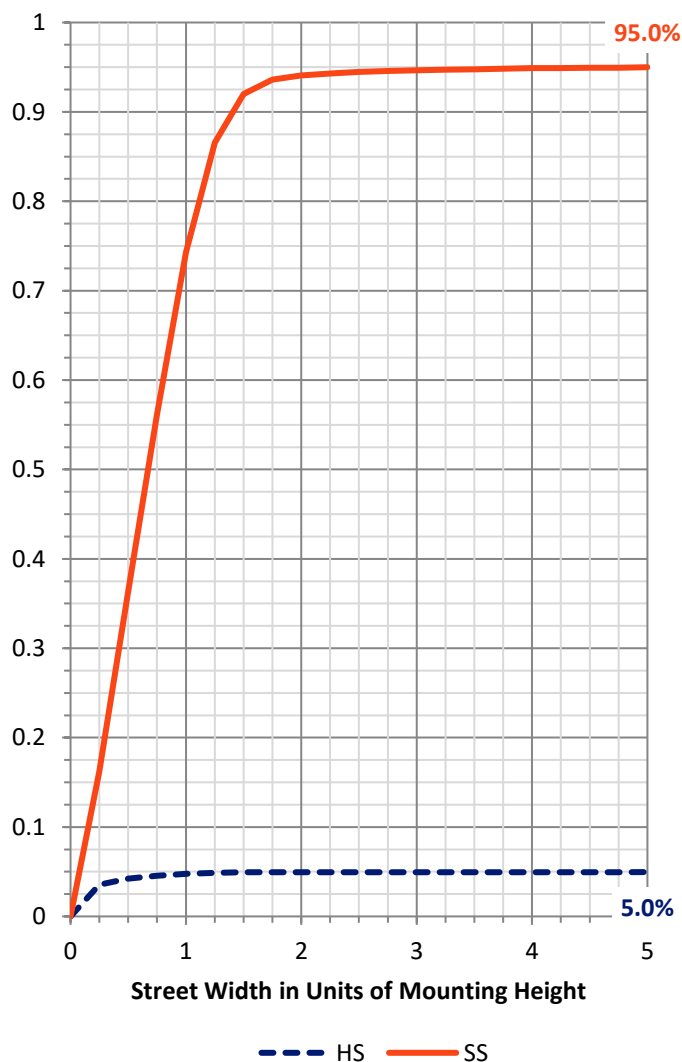
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2833.2	0.0	2833.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	53952.8	0.0	53952.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	56786.0	0.0	56786.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1171.2	2.1
10°-20°	3212.0	5.7
20°-30°	5483.9	9.7
30°-40°	8800.7	15.5
40°-50°	14063.5	24.8
50°-60°	15069.4	26.5
60°-70°	7737.1	13.6
70°-80°	1172.0	2.1
80°-90°	76.3	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°	56786.0	100.0
0°-180°	56786.0	100.0

**Coefficient of Utilization**

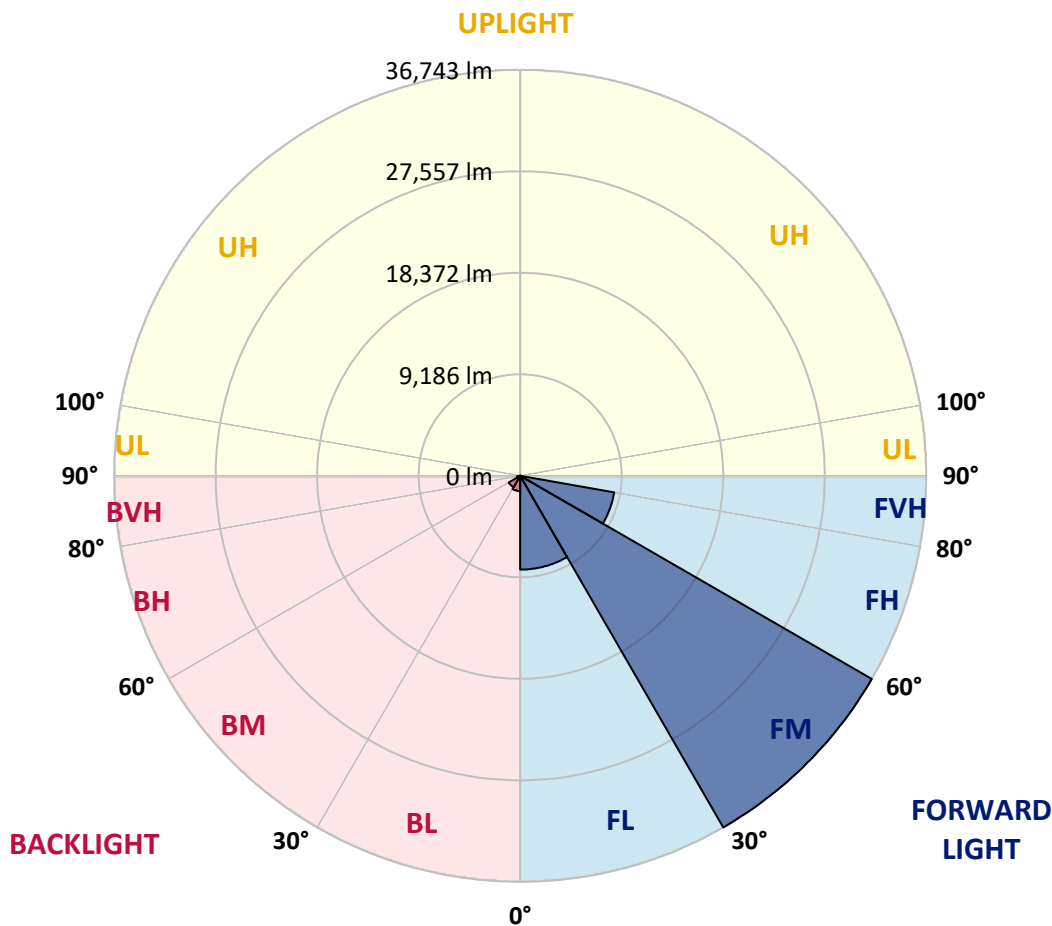


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8488.5	14.9			
FM (30°-60°)	36743.0	64.7			
FH (60°-80°)	8648.0	15.2			G4/12000
FVH (80°-90°)	73.2	0.1			G1/100
BL (0°-30°)	1378.5	2.4	B3/2500		
BM (30°-60°)	1190.6	2.1	B2/2500		
BH (60°-80°)	261.1	0.5	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8
2.5°	15959.8	15721.9	15729.2	15621.3	15226.5	14917.5	14596.3	14520.2	14020.0	13495.2	12990.0
5°	18718.6	18544.5	18502.8	18294.4	17745.1	17163.9	16541.0	16396.3	15417.8	14343.7	13286.7
7.5°	20136.1	20138.5	20104.2	20028.2	19684.9	19120.8	18360.6	18208.6	16876.9	15265.8	13595.7
10°	19724.1	19817.3	20008.6	20261.2	20523.6	20452.4	19881.0	19743.7	18296.8	16241.8	13939.0
12.5°	18762.8	18775.0	18988.4	19402.8	20158.2	20933.1	20942.9	20896.3	19653.0	17262.0	14316.7
15°	18284.6	18331.2	18409.6	18676.9	19393.0	20633.9	21521.7	21587.9	20896.3	18345.9	14718.9
17.5°	18598.5	18664.7	18598.5	18630.4	19044.8	20160.6	21622.2	21791.4	21982.7	19417.6	15099.0
20°	19449.4	19510.7	19393.0	19263.1	19344.0	20023.3	21551.1	21779.1	22833.6	20369.1	15417.8
22.5°	20597.1	20621.6	20442.6	20229.3	20170.4	20489.2	21609.9	21845.4	23515.4	21229.8	15618.9
25°	21860.1	21882.1	21659.0	21413.7	21274.0	21403.9	22093.0	22269.6	24116.2	22051.4	15734.2
27.5°	23235.8	23255.4	22975.9	22674.2	22512.4	22517.3	22890.1	23078.9	24756.3	22988.1	15827.3
30°	24690.1	24680.3	24422.8	24003.4	23797.4	23792.5	24037.7	24229.0	25683.3	24189.8	15954.9
32.5°	26323.3	26303.7	25938.3	25418.4	25185.4	25219.8	25438.0	25548.4	26833.4	25469.9	16182.9
35°	28474.0	28417.6	27865.8	27220.9	26791.7	26779.4	26963.4	27051.7	28299.9	27019.8	16563.0
37.5°	31264.8	31213.3	30465.3	29528.5	28925.2	28699.6	28917.9	29030.7	30391.7	29008.6	17173.7
40°	34016.3	33964.8	33520.9	32662.6	31733.2	31191.2	31362.9	31483.0	33003.5	31421.7	17943.7
42.5°	35914.4	35958.5	36113.0	36184.1	35313.6	34175.7	34254.1	34379.2	35747.6	34001.6	18824.1
45°	36414.7	36510.3	37383.3	39097.5	39423.7	38535.9	37714.4	37783.1	38535.9	36581.4	19704.5
47.5°	34911.4	35087.9	36772.7	39960.7	42722.0	43349.8	41795.1	41704.3	41211.4	38668.3	20329.8
50°	31495.3	31657.1	33839.7	38555.5	43722.6	47945.5	46685.0	46417.7	43558.3	39916.6	20550.5
52.5°	26551.4	26747.6	28520.6	34131.5	41836.8	49995.7	51315.0	51091.8	45279.8	40014.7	20587.3
55°	18750.5	18988.4	20864.4	26159.0	35860.4	48364.9	52955.6	52889.4	46709.5	39754.7	20665.8
57.5°	10537.7	10709.3	12732.5	16769.0	26264.5	42126.1	51241.4	51680.4	47572.8	39303.5	20783.5
60°	4679.0	4725.6	5772.8	8347.7	15376.1	32194.2	46334.3	47074.9	46832.2	38700.2	20982.1
62.5°	2594.6	2555.3	2555.3	3470.0	6682.6	19930.1	37783.1	39006.8	43671.1	37986.6	20991.9
65°	2033.0	1996.2	1890.7	1905.5	2545.5	8845.6	26163.9	28339.1	37667.8	35894.8	20285.7
67.5°	1724.0	1692.1	1586.7	1545.0	1581.8	2918.3	14375.6	16634.2	28581.9	30457.9	17570.9
70°	1456.7	1434.6	1380.7	1329.2	1236.0	1442.0	5500.6	7035.7	17612.6	20261.2	11994.3
72.5°	1172.2	1162.4	1182.0	1137.9	1025.1	961.3	1880.9	2278.2	7911.2	9041.7	4941.4
75°	1010.4	1005.5	1015.3	971.1	843.6	669.5	956.4	1044.7	2231.6	2212.0	1000.6
77.5°	657.2	664.6	841.1	821.5	725.9	446.3	495.4	534.6	676.8	507.6	304.1
80°	419.3	414.4	426.7	681.7	652.3	340.9	247.7	259.9	326.2	250.1	147.1
82.5°	255.0	250.1	279.6	318.8	328.6	237.9	152.0	154.5	203.5	161.9	78.5
85°	22.1	29.4	169.2	156.9	112.8	73.6	73.6	78.5	107.9	95.6	44.1
87.5°	0.0	0.0	29.4	44.1	24.5	27.0	27.0	29.4	41.7	41.7	22.1
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°	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8	12717.8
2.5°	12727.6	12472.6	11957.6	11462.2	11042.8	10638.2	10177.2	9721.0	9507.7	9421.9	9333.6
5°	12749.7	12224.9	11163.0	10093.8	8985.3	7987.2	7136.3	6263.3	5826.7	5635.5	5547.2
7.5°	12779.1	11979.6	10263.0	8467.9	6682.6	5328.9	4146.9	3386.7	3058.1	3006.6	2879.0
10°	12784.0	11682.9	9218.3	6672.8	4480.4	3212.6	2471.9	2079.6	1934.9	1910.4	1868.7
12.5°	12793.8	11332.2	8058.4	4941.4	2986.9	2148.2	1787.7	1657.8	1618.5	1616.1	1616.1
15°	12823.2	10964.4	6854.3	3560.8	2145.8	1701.9	1569.5	1518.0	1503.3	1510.6	1508.2
17.5°	12823.2	10530.3	5672.2	2653.4	1733.8	1530.3	1456.7	1422.4	1417.4	1424.8	1427.3
20°	12730.0	10003.1	4588.3	2064.9	1537.6	1419.9	1353.7	1321.8	1309.5	1314.4	1316.9
22.5°	12506.9	9355.6	3705.5	1709.3	1407.6	1319.4	1248.2	1199.2	1179.6	1182.0	1182.0
25°	12158.7	8588.1	2898.7	1478.8	1302.2	1211.5	1128.1	1071.7	1059.4	1057.0	1061.9
27.5°	11712.3	7739.6	2307.6	1302.2	1177.1	1091.3	1007.9	961.3	951.5	954.0	956.4
30°	11273.4	6859.2	1819.6	1152.6	1037.3	956.4	892.6	870.6	870.6	877.9	880.4
32.5°	10871.2	6013.1	1439.5	1022.6	912.3	838.7	801.9	799.5	811.7	816.6	819.1
35°	10525.4	5230.8	1191.8	922.1	814.2	750.4	738.2	748.0	762.7	772.5	774.9
37.5°	10280.2	4531.9	1042.2	838.7	738.2	686.7	684.2	703.8	723.4	745.5	750.4
40°	10177.2	3940.9	939.2	765.1	676.8	637.6	630.2	657.2	694.0	725.9	730.8
42.5°	10091.3	3457.8	851.0	694.0	627.8	571.4	568.9	603.3	647.4	679.3	686.7
45°	10017.8	3070.3	770.0	618.0	564.0	490.5	497.8	542.0	576.3	610.6	618.0
47.5°	9865.7	2751.5	681.7	537.1	465.9	419.3	434.1	473.3	500.3	551.8	559.1
50°	9593.5	2491.6	591.0	439.0	380.1	362.9	385.0	412.0	446.3	490.5	495.4
52.5°	9409.6	2295.4	512.5	367.8	313.9	318.8	340.9	350.7	370.3	387.5	382.6
55°	9304.1	2187.5	448.8	318.8	267.3	282.0	286.9	274.7	264.9	247.7	240.3
57.5°	9291.9	2089.4	399.7	277.1	235.4	242.8	225.6	183.9	149.6	130.0	125.1
60°	9272.3	1969.2	360.5	233.0	208.4	198.6	161.9	100.5	71.1	66.2	66.2
62.5°	9058.9	1782.8	331.1	196.2	176.6	149.6	93.2	46.6	39.2	41.7	41.7
65°	8379.6	1522.9	301.6	159.4	139.8	107.9	46.6	27.0	14.7	17.2	17.2
67.5°	7124.0	1213.9	269.8	122.6	105.5	68.7	27.0	12.3	0.0	0.0	0.0
70°	4769.8	752.9	228.1	85.8	68.7	41.7	19.6	2.5	0.0	0.0	0.0
72.5°	1829.4	407.1	183.9	51.5	44.1	29.4	12.3	0.0	0.0	0.0	0.0
75°	412.0	267.3	127.5	36.8	31.9	19.6	4.9	0.0	0.0	0.0	0.0
77.5°	156.9	193.7	73.6	24.5	22.1	12.3	0.0	0.0	0.0	0.0	0.0
80°	76.0	115.3	34.3	14.7	12.3	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	39.2	44.1	14.7	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.1	22.1	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	7.4	2.5	2.5	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)