

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: P324803

Luminaire Tested: **GAN-SA9B-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324803  
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-SA9B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA 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: 41823 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

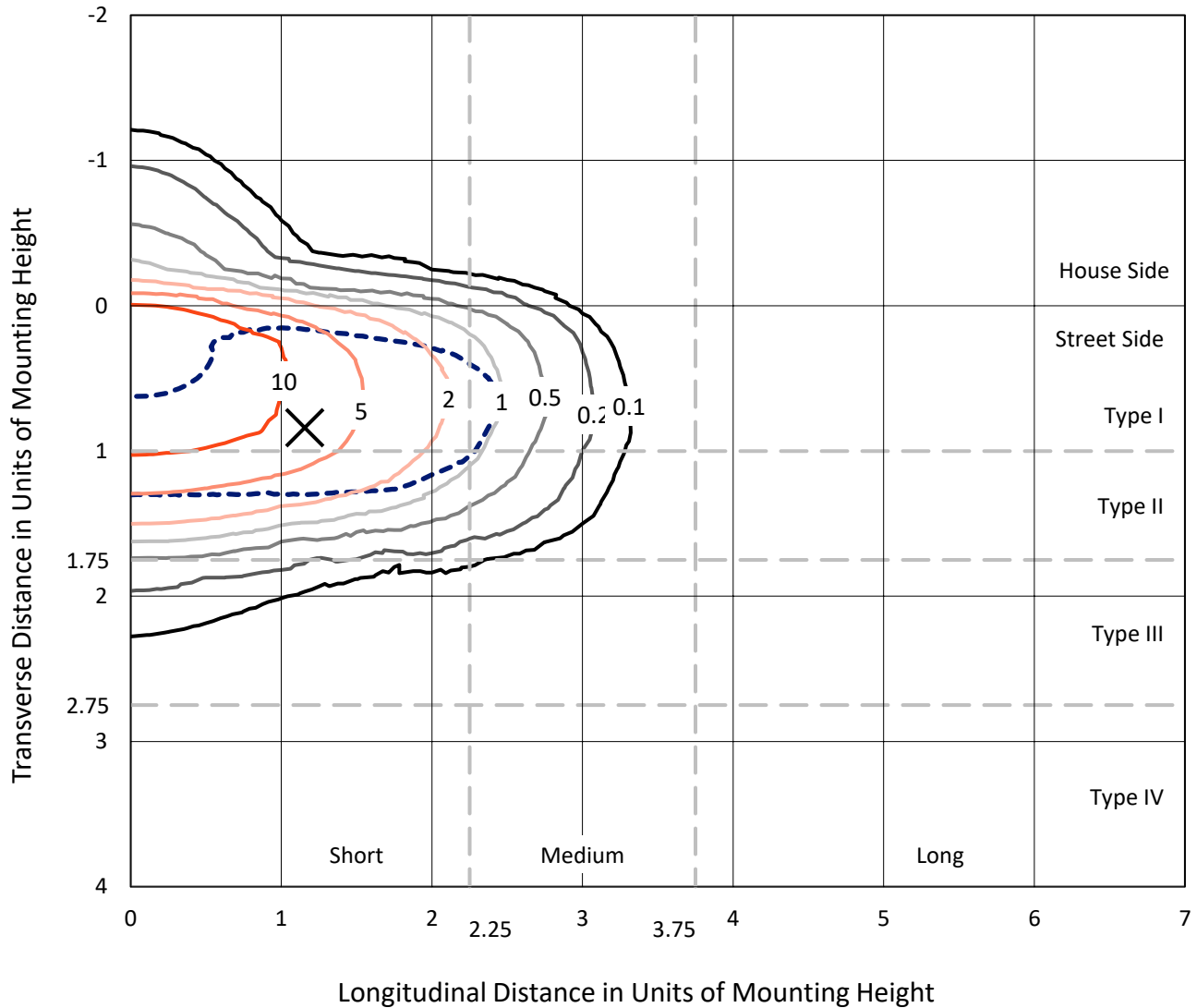
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

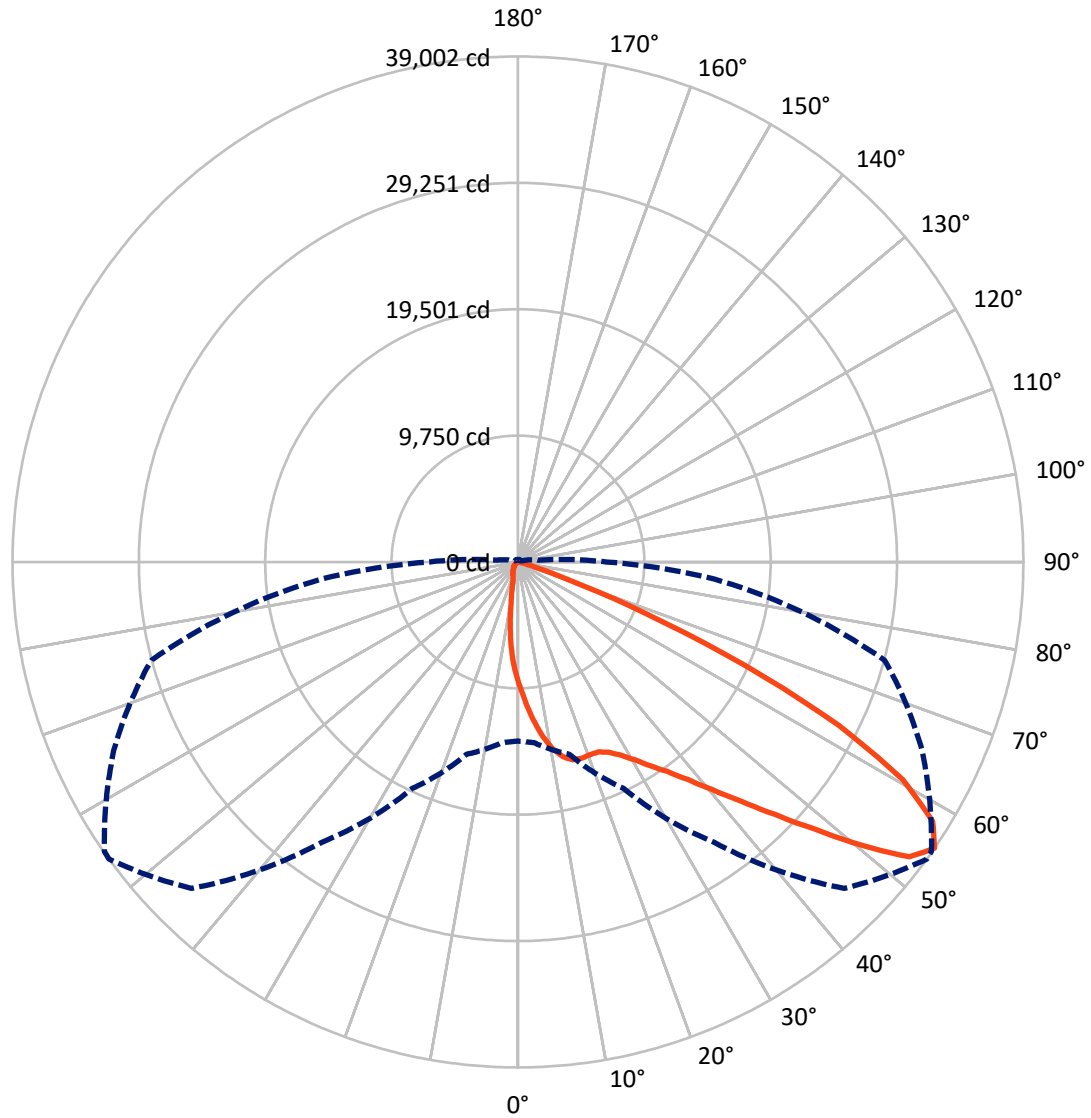
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16 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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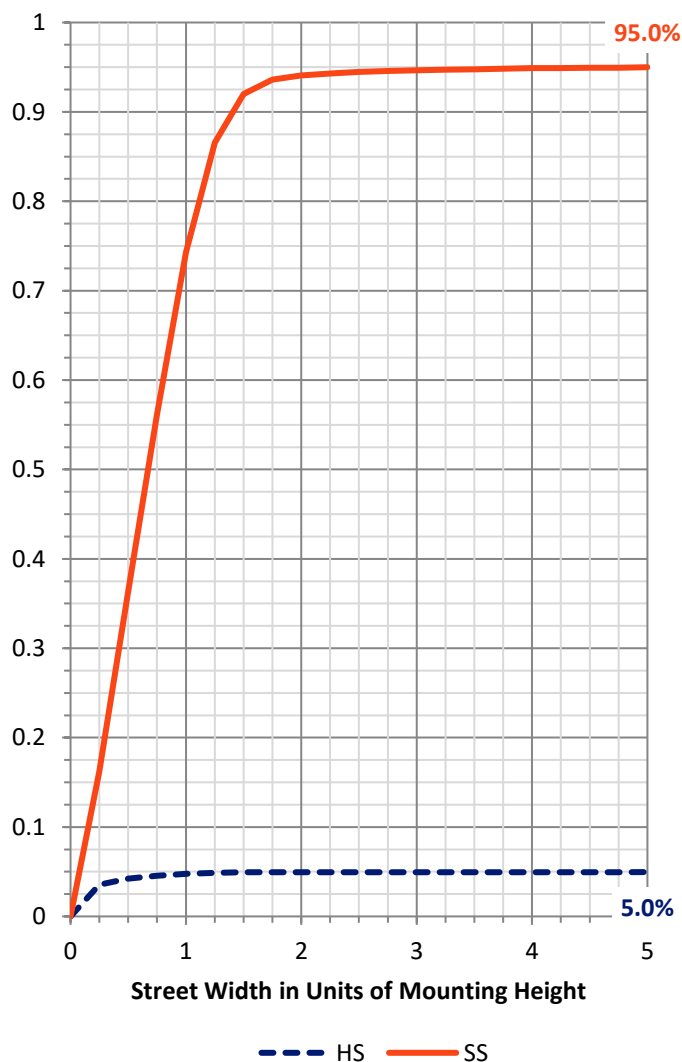
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2086.7	0.0	2086.7
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	39736.3	0.0	39736.3
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	41823.0	0.0	41823.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.6	2.1
10°-20°	2365.6	5.7
20°-30°	4038.9	9.7
30°-40°	6481.7	15.5
40°-50°	10357.8	24.8
50°-60°	11098.7	26.5
60°-70°	5698.4	13.6
70°-80°	863.2	2.1
80°-90°	56.2	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°	41823.0	100.0
0°-180°	41823.0	100.0

**Coefficient of Utilization**



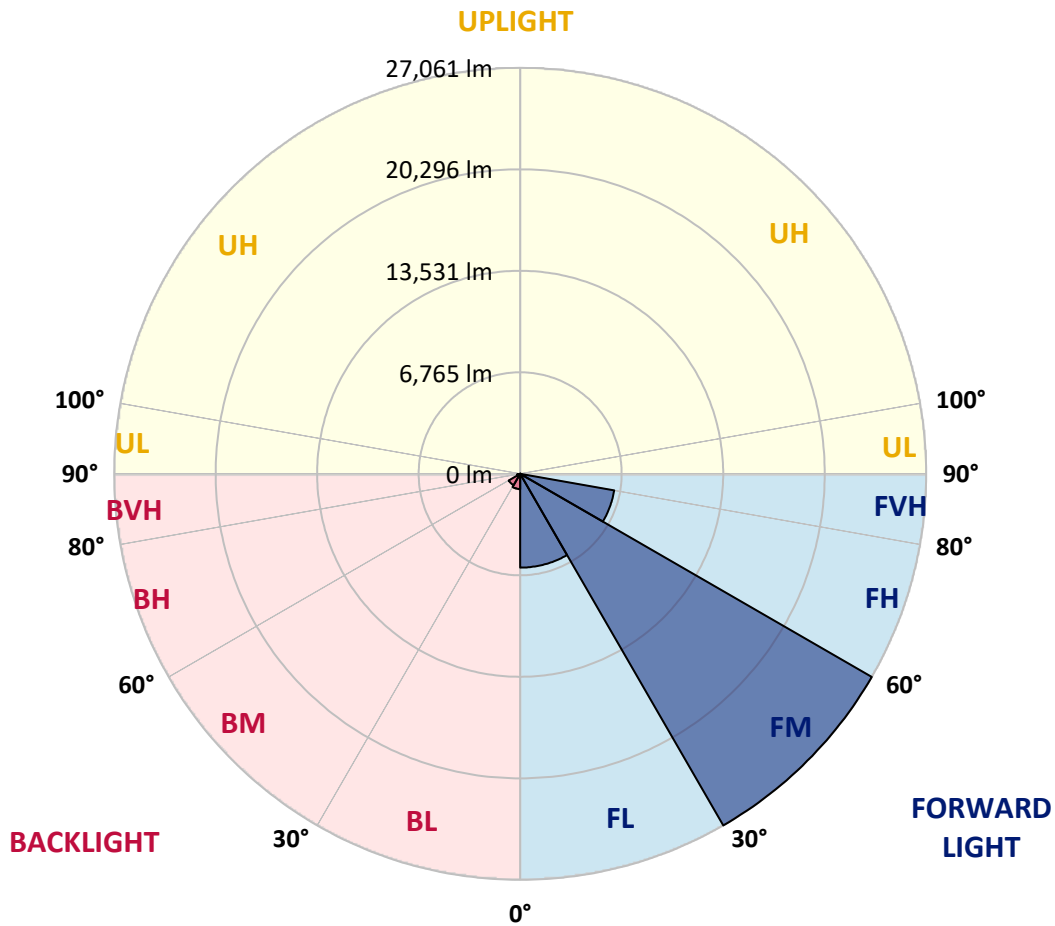
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6251.8	14.9			
FM (30°-60°)	27061.3	64.7			
FH (60°-80°)	6369.3	15.2			G3/7500
FVH (80°-90°)	53.9	0.1			G1/100
BL (0°-30°)	1015.2	2.4	B3/2500		
BM (30°-60°)	876.9	2.1	B1/1000		
BH (60°-80°)	192.3	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7
2.5°	11754.4	11579.2	11584.6	11505.2	11214.4	10986.8	10750.2	10694.2	10325.7	9939.2	9567.2
5°	13786.3	13658.1	13627.4	13473.8	13069.3	12641.2	12182.5	12075.9	11355.2	10564.1	9785.7
7.5°	14830.3	14832.1	14806.8	14750.8	14497.9	14082.5	13522.6	13410.6	12429.9	11243.3	10013.3
10°	14526.8	14595.5	14736.3	14922.4	15115.6	15063.3	14642.4	14541.3	13475.7	11962.1	10266.1
12.5°	13818.8	13827.9	13985.0	14290.2	14846.5	15417.3	15424.5	15390.2	14474.5	12713.5	10544.3
15°	13466.6	13500.9	13558.7	13755.6	14283.0	15196.9	15850.7	15899.5	15390.2	13511.8	10840.5
17.5°	13697.8	13746.6	13697.8	13721.3	14026.5	14848.3	15924.8	16049.4	16190.3	14301.1	11120.4
20°	14324.5	14369.7	14283.0	14187.3	14246.9	14747.2	15872.4	16040.4	16817.0	15001.8	11355.2
22.5°	15169.8	15187.9	15056.0	14898.9	14855.6	15090.4	15915.8	16089.1	17319.1	15635.8	11503.3
25°	16100.0	16116.2	15951.9	15771.3	15668.3	15764.0	16271.6	16401.6	17761.6	16240.9	11588.2
27.5°	17113.2	17127.7	16921.8	16699.6	16580.4	16584.0	16858.6	16997.6	18233.0	16930.8	11656.9
30°	18184.3	18177.1	17987.4	17678.6	17526.8	17523.2	17703.8	17844.7	18915.8	17815.8	11750.8
32.5°	19387.2	19372.7	19103.6	18720.7	18549.1	18574.4	18735.2	18816.4	19762.9	18758.6	11918.8
35°	20971.2	20929.6	20523.2	20048.2	19732.1	19723.1	19858.6	19923.6	20842.9	19900.1	12198.7
37.5°	23026.6	22988.6	22437.8	21747.8	21303.5	21137.3	21298.1	21381.2	22383.6	21364.9	12648.4
40°	25053.1	25015.1	24688.2	24056.1	23371.5	22972.4	23098.8	23187.3	24307.1	23142.1	13215.6
42.5°	26451.0	26483.5	26597.3	26649.7	26008.5	25170.5	25228.2	25320.4	26328.2	25042.2	13864.0
45°	26819.5	26889.9	27532.9	28795.4	29035.6	28381.8	27776.7	27827.3	28381.8	26942.3	14512.4
47.5°	25712.3	25842.3	27083.2	29431.2	31464.9	31927.2	30782.1	30715.3	30352.3	28479.3	14973.0
50°	23196.3	23315.5	24923.0	28396.2	32201.8	35312.0	34383.6	34186.7	32080.8	29398.6	15135.5
52.5°	19555.1	19699.6	21005.5	25137.9	30812.9	36821.9	37793.6	37629.2	33348.7	29470.9	15162.6
55°	13809.8	13985.0	15366.7	19266.2	26411.3	35620.8	39001.9	38953.2	34401.7	29279.4	15220.4
57.5°	7761.0	7887.4	9377.5	12350.4	19343.8	31026.0	37739.4	38062.7	35037.4	28947.1	15307.1
60°	3446.1	3480.4	4251.7	6148.1	11324.5	23711.1	34125.3	34670.8	34492.0	28502.8	15453.4
62.5°	1910.9	1882.0	1882.0	2555.7	4921.7	14678.5	27827.3	28728.6	32163.8	27977.2	15460.6
65°	1497.3	1470.2	1392.5	1403.4	1874.8	6514.8	19269.8	20871.8	27742.4	26436.6	14940.4
67.5°	1269.7	1246.2	1168.6	1137.9	1165.0	2149.3	10587.6	12251.1	21050.6	22432.3	12941.0
70°	1072.9	1056.6	1016.9	978.9	910.3	1062.0	4051.2	5181.8	12971.7	14922.4	8833.9
72.5°	863.3	856.1	870.6	838.1	755.0	708.0	1385.3	1677.9	5826.6	6659.3	3639.4
75°	744.1	740.5	747.7	715.2	621.3	493.1	704.4	769.4	1643.6	1629.1	736.9
77.5°	484.0	489.5	619.5	605.1	534.6	328.7	364.8	393.7	498.5	373.9	224.0
80°	308.9	305.2	314.3	502.1	480.4	251.1	182.4	191.5	240.2	184.2	108.4
82.5°	187.8	184.2	205.9	234.8	242.0	175.2	112.0	113.8	149.9	119.2	57.8
85°	16.3	21.7	124.6	115.6	83.1	54.2	54.2	57.8	79.5	70.4	32.5
87.5°	0.0	0.0	21.7	32.5	18.1	19.9	19.9	21.7	30.7	30.7	16.3
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°	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7	9366.7
2.5°	9373.9	9186.1	8806.8	8441.9	8133.1	7835.1	7495.5	7159.6	7002.4	6939.2	6874.2
5°	9390.2	9003.6	8221.6	7434.1	6617.7	5882.6	5255.9	4612.9	4291.4	4150.5	4085.5
7.5°	9411.8	8823.0	7558.7	6236.6	4921.7	3924.8	3054.2	2494.3	2252.3	2214.3	2120.4
10°	9415.4	8604.5	6789.3	4914.5	3299.8	2366.1	1820.6	1531.6	1425.0	1407.0	1376.3
12.5°	9422.7	8346.2	5935.0	3639.4	2199.9	1582.2	1316.7	1221.0	1192.1	1190.3	1190.3
15°	9444.3	8075.3	5048.2	2622.5	1580.4	1253.5	1155.9	1118.0	1107.2	1112.6	1110.8
17.5°	9444.3	7755.6	4177.6	1954.3	1276.9	1127.0	1072.9	1047.6	1044.0	1049.4	1051.2
20°	9375.7	7367.3	3379.3	1520.8	1132.5	1045.8	997.0	973.5	964.5	968.1	969.9
22.5°	9211.3	6890.4	2729.1	1258.9	1036.7	971.7	919.3	883.2	868.8	870.6	870.6
25°	8954.9	6325.1	2134.9	1089.1	959.1	892.2	830.8	789.3	780.3	778.4	782.1
27.5°	8626.2	5700.2	1699.6	959.1	867.0	803.7	742.3	708.0	700.8	702.6	704.4
30°	8302.9	5051.8	1340.2	848.9	764.0	704.4	657.4	641.2	641.2	646.6	648.4
32.5°	8006.6	4428.7	1060.2	753.2	671.9	617.7	590.6	588.8	597.8	601.4	603.3
35°	7752.0	3852.5	877.8	679.1	599.6	552.7	543.6	550.9	561.7	568.9	570.7
37.5°	7571.4	3337.8	767.6	617.7	543.6	505.7	503.9	518.4	532.8	549.1	552.7
40°	7495.5	2902.5	691.8	563.5	498.5	469.6	464.2	484.0	511.1	534.6	538.2
42.5°	7432.3	2546.7	626.7	511.1	462.4	420.8	419.0	444.3	476.8	500.3	505.7
45°	7378.1	2261.3	567.1	455.1	415.4	361.2	366.6	399.2	424.4	449.7	455.1
47.5°	7266.1	2026.5	502.1	395.5	343.2	308.9	319.7	348.6	368.5	406.4	411.8
50°	7065.6	1835.0	435.3	323.3	280.0	267.3	283.6	303.4	328.7	361.2	364.8
52.5°	6930.2	1690.6	377.5	270.9	231.2	234.8	251.1	258.3	272.7	285.4	281.8
55°	6852.5	1611.1	330.5	234.8	196.9	207.7	211.3	202.3	195.1	182.4	177.0
57.5°	6843.5	1538.8	294.4	204.1	173.4	178.8	166.2	135.5	110.2	95.7	92.1
60°	6829.0	1450.3	265.5	171.6	153.5	146.3	119.2	74.1	52.4	48.8	48.8
62.5°	6671.9	1313.1	243.8	144.5	130.0	110.2	68.6	34.3	28.9	30.7	30.7
65°	6171.6	1121.6	222.2	117.4	103.0	79.5	34.3	19.9	10.8	12.6	12.6
67.5°	5246.9	894.0	198.7	90.3	77.7	50.6	19.9	9.0	0.0	0.0	0.0
70°	3513.0	554.5	168.0	63.2	50.6	30.7	14.4	1.8	0.0	0.0	0.0
72.5°	1347.4	299.8	135.5	37.9	32.5	21.7	9.0	0.0	0.0	0.0	0.0
75°	303.4	196.9	93.9	27.1	23.5	14.4	3.6	0.0	0.0	0.0	0.0
77.5°	115.6	142.7	54.2	18.1	16.3	9.0	0.0	0.0	0.0	0.0	0.0
80°	56.0	84.9	25.3	10.8	9.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	28.9	32.5	10.8	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	16.3	5.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	5.4	1.8	1.8	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)