

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: P530541

Luminaire Tested: **GLAN-SA5D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530541  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26921 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

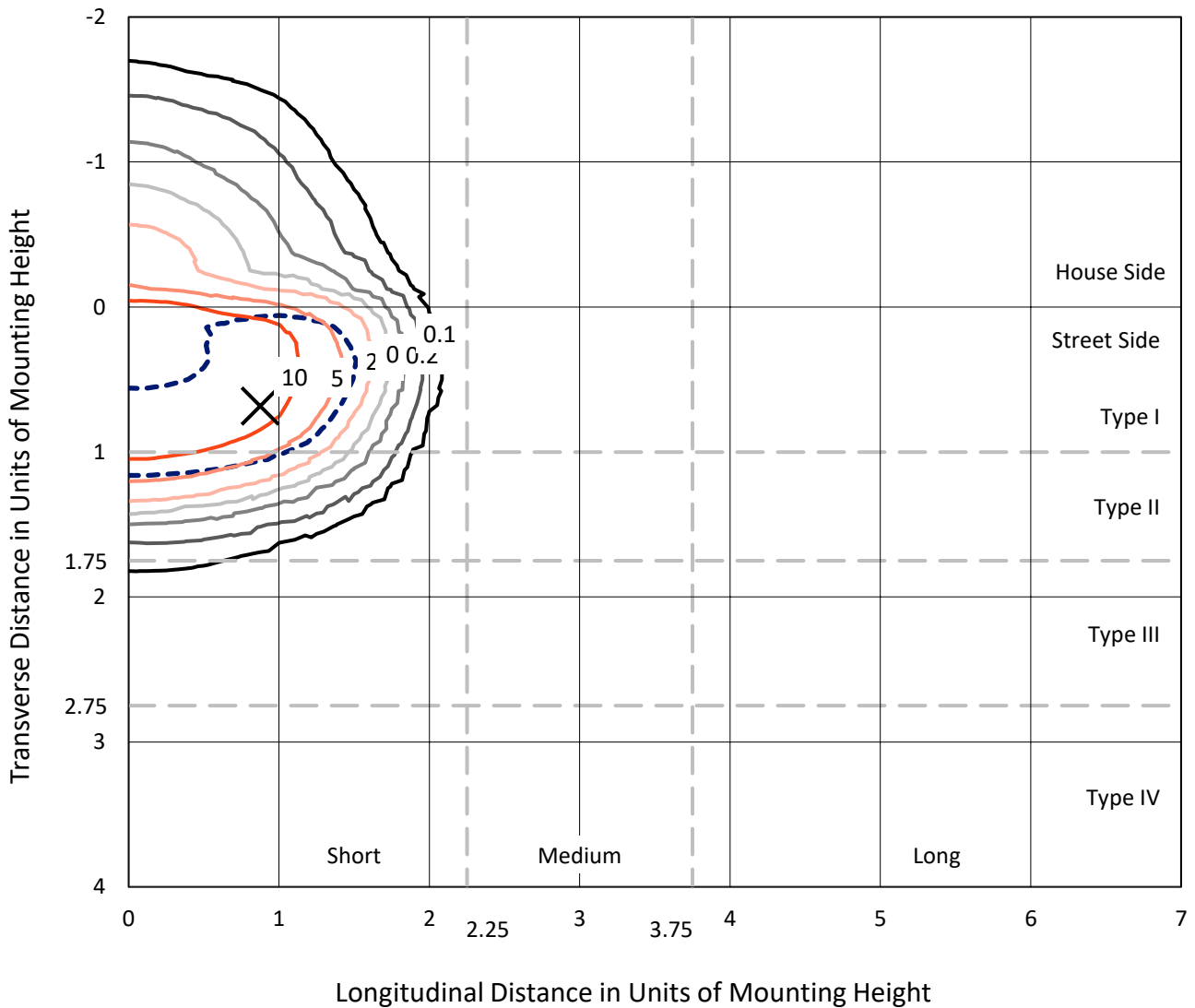
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

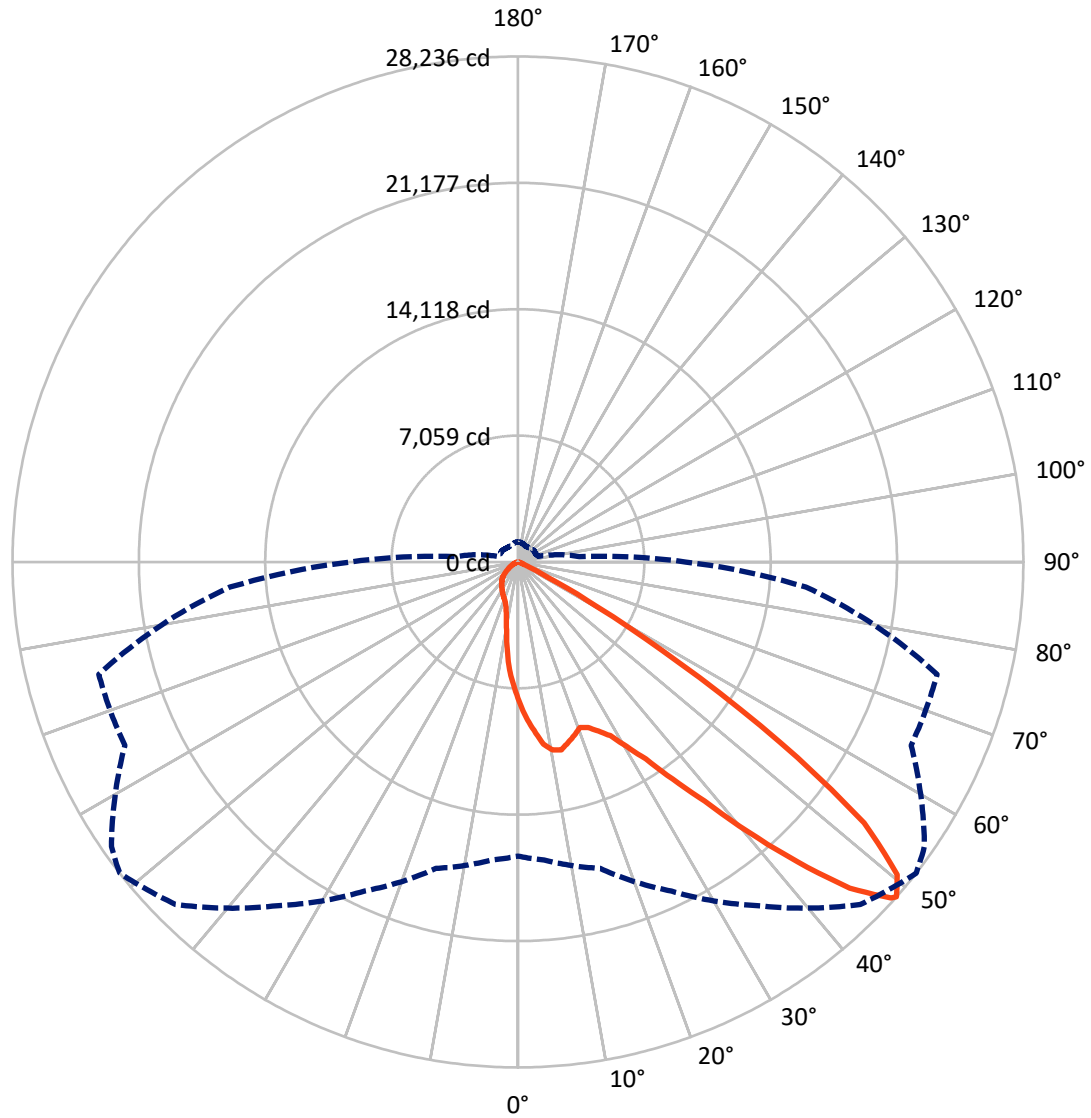
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral    - - - Horizontal Cone Through 48-Deg Vertical

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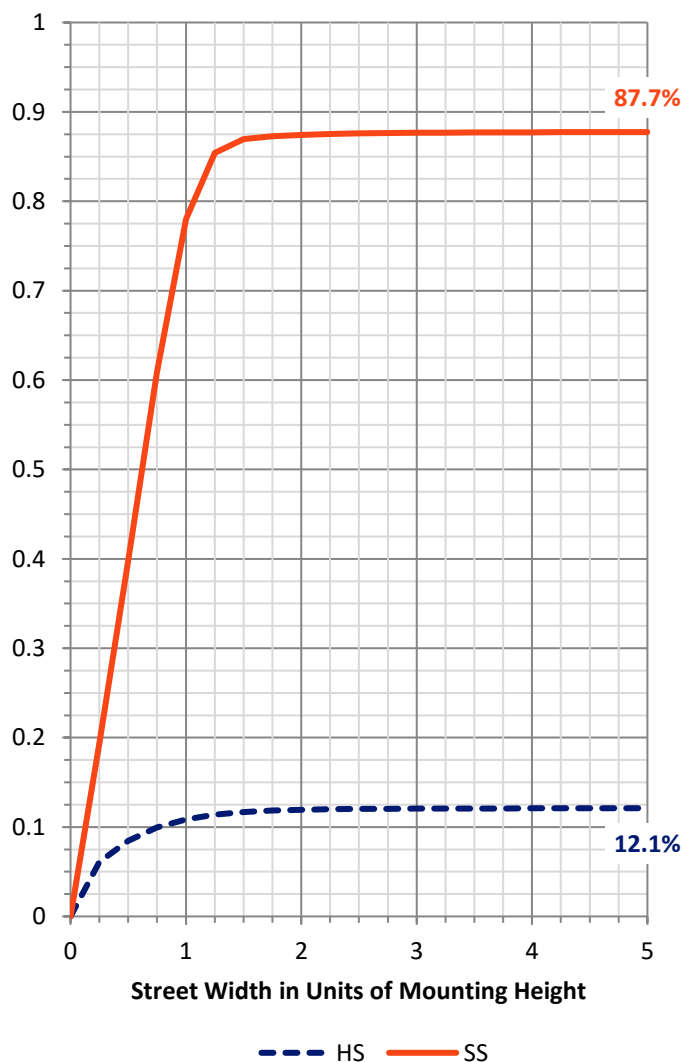
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3277.8	0.0	3277.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	23643.1	0.0	23643.1
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	26921.0	0.0	26921.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	711.6	2.6
10°-20°	1859.6	6.9
20°-30°	3175.1	11.8
30°-40°	5846.9	21.7
40°-50°	9080.3	33.7
50°-60°	5464.8	20.3
60°-70°	632.1	2.3
70°-80°	122.3	0.5
80°-90°	28.3	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°	26921.0	100.0
0°-180°	26921.0	100.0

**Coefficient of Utilization**



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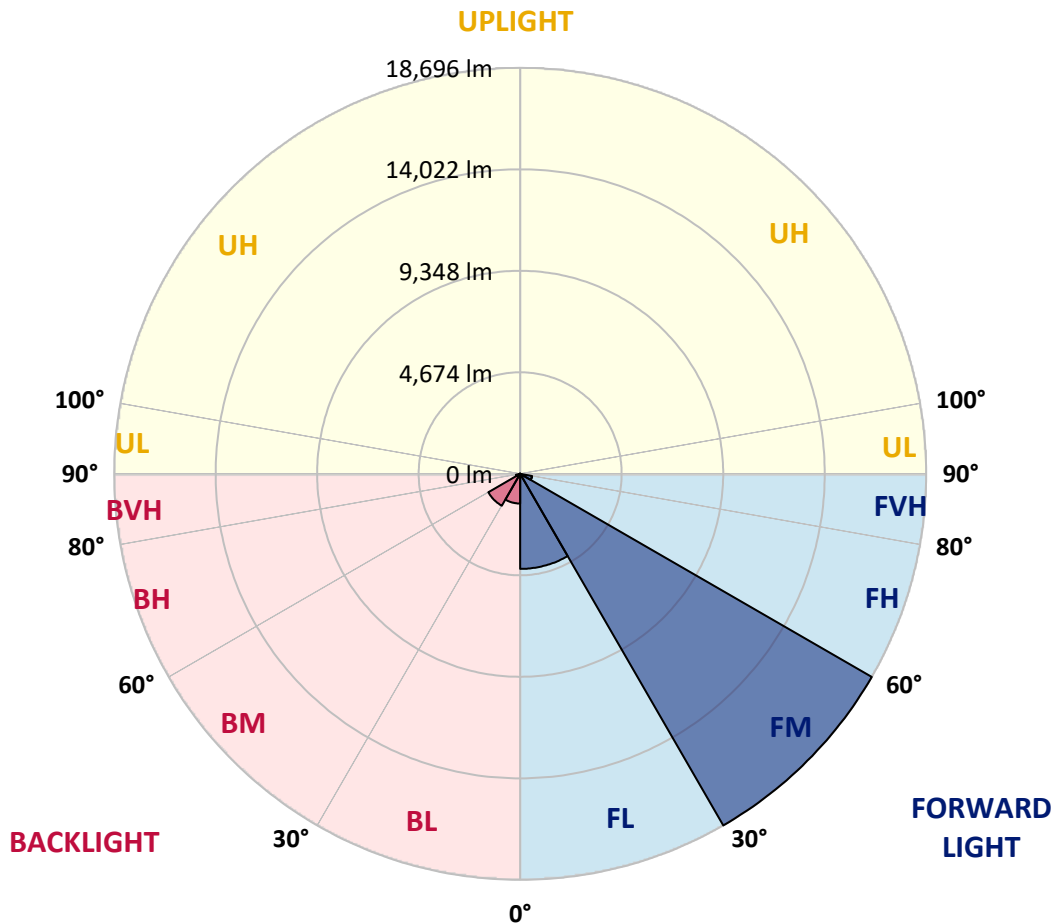
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4377.0	16.3			
FM (30°-60°)	18696.1	69.4			
FH (60°-80°)	556.6	2.1			G0/660
FVH (80°-90°)	13.5	0.0			G1/100
BL (0°-30°)	1369.3	5.1	B3/2500		
BM (30°-60°)	1695.9	6.3	B2/2500		
BH (60°-80°)	197.8	0.7	B1/500		G1/500
BVH (80°-90°)	14.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	9422.6	9206.8	9226.4	9085.1	9002.7	8869.3	8688.7	8653.4	8457.2	8190.3	7919.5
5°	10270.3	10219.3	10286.0	10081.9	10089.8	9870.0	9446.2	9454.0	9002.7	8567.1	8147.2
7.5°	10325.2	10207.5	10274.2	10454.7	10560.7	10521.5	10282.1	10074.1	9646.3	9006.6	8394.4
10°	9246.0	9469.7	9540.3	9838.6	10262.4	10709.8	10682.4	10694.1	10337.0	9501.1	8606.3
12.5°	8598.5	8449.3	8688.7	8869.3	9508.9	10376.2	10772.6	10859.0	10886.4	9979.9	8818.2
15°	8304.1	8304.1	8343.4	8394.4	8857.5	9658.1	10466.5	10717.7	11310.3	10607.8	9151.8
17.5°	8488.6	8480.7	8535.7	8429.7	8602.4	9218.5	10184.0	10470.4	11785.1	11223.9	9414.8
20°	9049.8	9077.3	9041.9	8735.8	8747.6	9210.7	9870.0	10321.3	12106.9	11757.7	9764.0
22.5°	9830.8	9846.4	9646.3	9312.7	9214.6	9442.2	10050.5	10395.9	12365.9	12397.3	9870.0
25°	10733.4	10670.6	10631.3	10160.4	9862.1	10058.4	10458.7	10658.8	12526.8	12946.8	10172.2
27.5°	11985.3	11859.7	11620.3	11200.4	10980.6	10702.0	10988.5	11318.1	12986.0	13716.0	10501.8
30°	13833.7	13723.8	13256.8	12715.2	12138.3	11863.6	11953.9	12134.4	13814.1	14606.8	10937.4
32.5°	16616.1	16384.6	15709.6	14677.4	13892.6	13135.1	13111.6	13303.9	14555.8	15839.1	11455.5
35°	19681.1	19610.5	18617.6	17554.1	16035.3	14865.8	14885.4	14987.5	15976.4	17456.0	12134.4
37.5°	21717.9	22106.4	21474.6	20332.6	19057.1	17385.3	16961.5	16996.8	17926.9	19371.1	13358.8
40°	23291.6	22962.0	23036.5	22769.7	21898.4	20760.3	19822.4	19638.0	20183.5	21490.3	14575.4
42.5°	22604.8	22620.5	23079.7	23711.5	23927.4	23845.0	22887.4	22538.1	22114.3	23224.9	15733.1
45°	20666.2	21070.4	21666.9	23338.7	24806.5	26183.9	25995.6	25414.7	23448.6	24598.5	16400.3
47.5°	17573.7	17558.0	18535.2	20709.3	23970.5	27196.4	28052.0	27643.8	24394.4	24445.4	16262.9
48°	16431.7	16714.2	17722.8	20281.6	23440.7	27047.3	28236.4	27722.3	24233.5	24241.3	16145.2
50°	12146.2	12095.2	13351.0	16490.5	20936.9	25414.7	27459.4	27859.7	24229.6	23209.2	15321.1
52.5°	6416.5	6636.2	7550.6	10368.4	14803.0	20799.6	24221.7	24845.7	23374.0	21521.7	14135.9
55°	2727.5	2464.6	3167.0	4681.9	8327.7	13896.5	17769.9	19159.2	19763.5	19045.4	12365.9
57.5°	973.3	1063.5	1224.4	1762.1	3500.6	7605.6	10596.0	11675.2	13692.4	13975.0	8425.8
60°	624.0	635.8	686.8	808.4	1314.7	2931.6	5027.2	5886.7	6801.1	7020.8	3932.3
62.5°	482.7	486.6	510.2	529.8	624.0	1138.1	1887.7	2236.9	2323.3	1997.5	1032.1
65°	404.2	408.1	416.0	416.0	443.5	533.7	659.3	726.0	706.4	698.6	584.7
67.5°	310.0	317.9	333.6	333.6	349.3	325.7	365.0	388.5	439.5	533.7	498.4
70°	243.3	247.2	259.0	266.9	266.9	235.5	262.9	286.5	321.8	396.4	392.4
72.5°	188.4	196.2	204.1	204.1	192.3	160.9	188.4	208.0	231.5	274.7	266.9
75°	145.2	145.2	149.1	121.7	94.2	82.4	113.8	137.4	172.7	180.5	149.1
77.5°	39.2	43.2	39.2	35.3	39.2	58.9	74.6	86.3	109.9	109.9	98.1
80°	0.0	3.9	11.8	23.5	39.2	54.9	66.7	74.6	86.3	94.2	90.3
82.5°	0.0	3.9	11.8	23.5	35.3	43.2	58.9	62.8	70.6	82.4	82.4
85°	0.0	3.9	7.8	15.7	23.5	27.5	27.5	23.5	23.5	19.6	15.7
87.5°	0.0	0.0	3.9	7.8	7.8	11.8	11.8	11.8	11.8	11.8	11.8
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°	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3	7774.3
2.5°	7813.6	7691.9	7507.5	7217.1	6938.4	6757.9	6585.2	6392.9	6287.0	6279.1	6220.3
5°	7907.8	7633.1	7193.5	6695.1	6161.4	5702.2	5239.1	4937.0	4666.2	4517.0	4489.6
7.5°	7958.8	7601.7	6891.3	6055.4	5145.0	4395.4	3877.4	3496.7	3347.6	3237.7	3233.7
10°	8064.7	7546.7	6440.0	5207.7	4081.4	3324.0	2966.9	2794.2	2711.8	2680.4	2633.3
12.5°	8143.2	7444.7	5976.9	4336.5	3225.9	2755.0	2598.0	2558.7	2562.7	2578.4	2558.7
15°	8253.1	7354.4	5353.0	3559.5	2707.9	2480.3	2480.3	2488.1	2543.0	2550.9	2547.0
17.5°	8245.3	7177.8	4709.3	2931.6	2393.9	2362.5	2374.3	2448.9	2484.2	2496.0	2468.5
20°	8339.5	7013.0	4046.1	2503.8	2217.3	2264.4	2342.9	2362.5	2405.7	2413.5	2382.1
22.5°	8312.0	6600.9	3430.0	2166.3	2083.9	2174.1	2252.6	2276.2	2264.4	2240.9	2236.9
25°	8261.0	6247.7	2864.8	1942.6	1985.8	2083.9	2158.4	2115.3	2091.7	2095.7	2099.6
27.5°	8170.7	5800.3	2397.8	1785.6	1852.3	1997.5	1993.6	1977.9	2001.5	1981.8	2001.5
30°	8155.0	5353.0	2013.2	1644.3	1754.2	1860.2	1868.0	1895.5	1923.0	1887.7	1923.0
32.5°	8178.6	4862.4	1738.5	1558.0	1695.4	1699.3	1785.6	1813.1	1793.5	1715.0	1722.8
35°	8359.1	4485.6	1538.4	1510.9	1601.2	1605.1	1687.5	1652.2	1565.9	1518.8	1546.2
37.5°	8739.8	4171.7	1444.2	1467.7	1475.6	1526.6	1530.5	1459.9	1467.7	1463.8	1479.5
40°	9226.4	3932.3	1377.5	1428.5	1420.7	1456.0	1314.7	1353.9	1389.3	1401.0	1408.9
42.5°	9560.0	3759.6	1334.3	1365.7	1350.0	1287.2	1208.7	1248.0	1275.4	1318.6	1326.5
45°	9709.1	3622.3	1283.3	1255.8	1255.8	1142.0	1110.6	1118.5	1181.3	1228.4	1220.5
47.5°	9465.8	3488.8	1193.0	1110.6	1138.1	1043.9	1008.6	1008.6	1075.3	1134.2	1122.4
48°	9371.6	3433.9	1197.0	1079.2	1098.8	1028.2	992.9	985.0	1059.6	1114.5	1114.5
50°	8904.6	3229.8	1094.9	992.9	953.6	945.8	922.2	930.1	977.2	1028.2	1028.2
52.5°	7994.1	2790.3	926.2	851.6	781.0	828.1	839.8	824.1	847.7	894.8	890.9
55°	6671.6	2142.8	741.7	706.4	651.5	702.5	726.0	706.4	682.9	718.2	718.2
57.5°	4273.7	1153.8	592.6	600.4	545.5	596.5	616.1	569.0	525.9	553.3	549.4
60°	1926.9	690.7	486.6	474.9	439.5	498.4	529.8	474.9	416.0	435.6	455.2
62.5°	722.1	490.6	368.9	361.0	353.2	408.1	423.8	380.7	321.8	333.6	337.5
65°	529.8	431.7	294.3	266.9	282.6	321.8	314.0	270.8	231.5	231.5	239.4
67.5°	451.3	376.7	239.4	208.0	208.0	211.9	196.2	172.7	160.9	168.8	176.6
70°	353.2	298.3	188.4	160.9	145.2	129.5	113.8	109.9	98.1	109.9	106.0
72.5°	227.6	200.1	145.2	121.7	109.9	90.3	74.6	70.6	58.9	54.9	54.9
75°	121.7	121.7	113.8	98.1	86.3	70.6	58.9	47.1	31.4	23.5	23.5
77.5°	86.3	94.2	102.0	94.2	78.5	58.9	47.1	31.4	15.7	7.8	7.8
80°	82.4	94.2	102.0	90.3	78.5	58.9	43.2	23.5	11.8	3.9	3.9
82.5°	74.6	86.3	94.2	82.4	70.6	51.0	39.2	23.5	11.8	3.9	3.9
85°	15.7	19.6	23.5	23.5	27.5	35.3	27.5	19.6	7.8	3.9	3.9
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	7.8	7.8	3.9	3.9	3.9
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)