

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: P649448

Luminaire Tested: **GLAN-SA5D-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P649448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30081.3 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

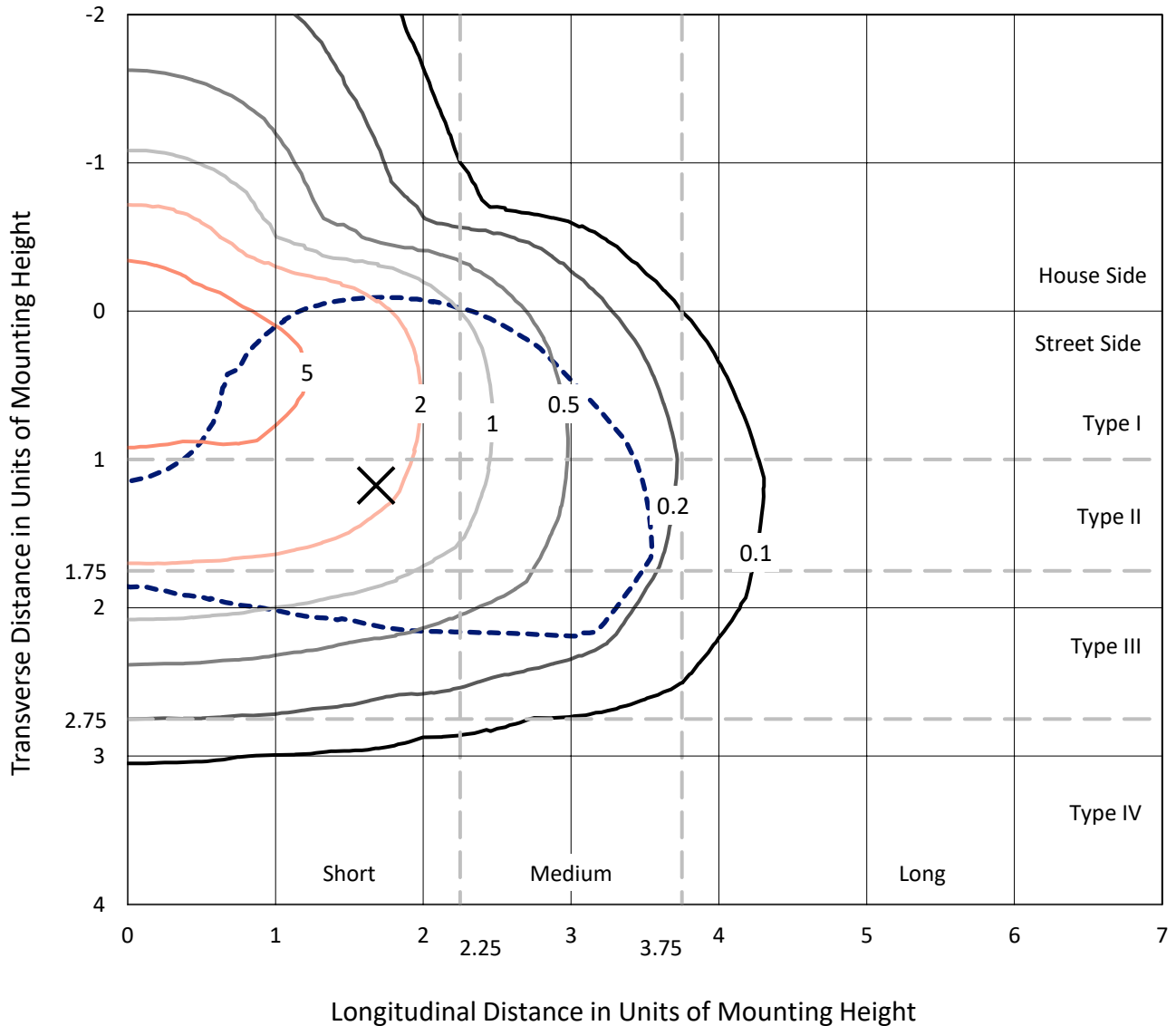
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

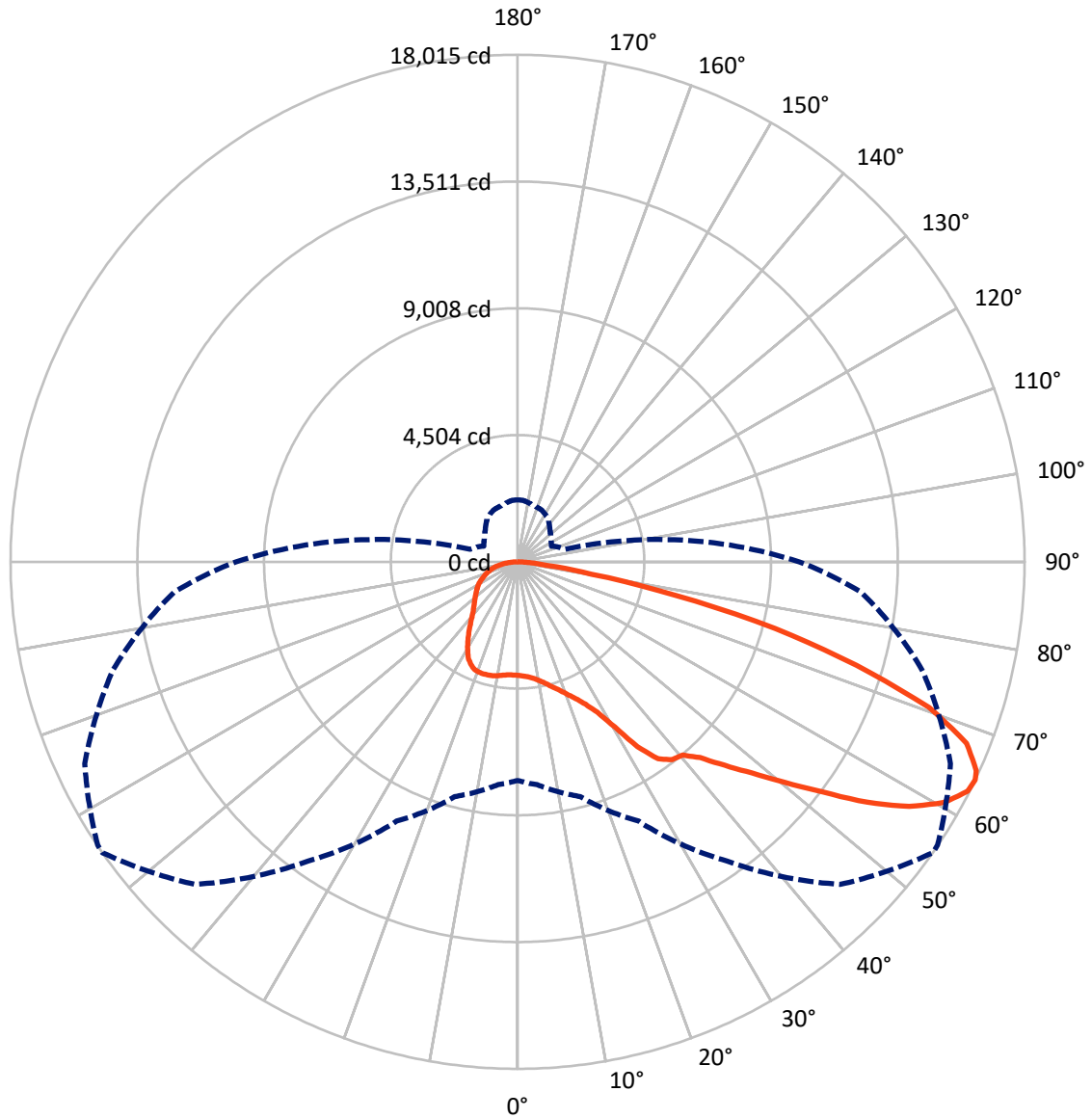
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7307.3	0.0	7307.3
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	22774.0	0.0	22774.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	30081.3	0.0	30081.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.6	1.3
10°-20°	1238.8	4.1
20°-30°	2205.3	7.3
30°-40°	3393.1	11.3
40°-50°	4810.0	16.0
50°-60°	6962.4	23.1
60°-70°	7205.3	24.0
70°-80°	3374.3	11.2
80°-90°	499.5	1.7
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°	30081.3	100.0
0°-180°	30081.3	100.0

**Coefficient of Utilization**

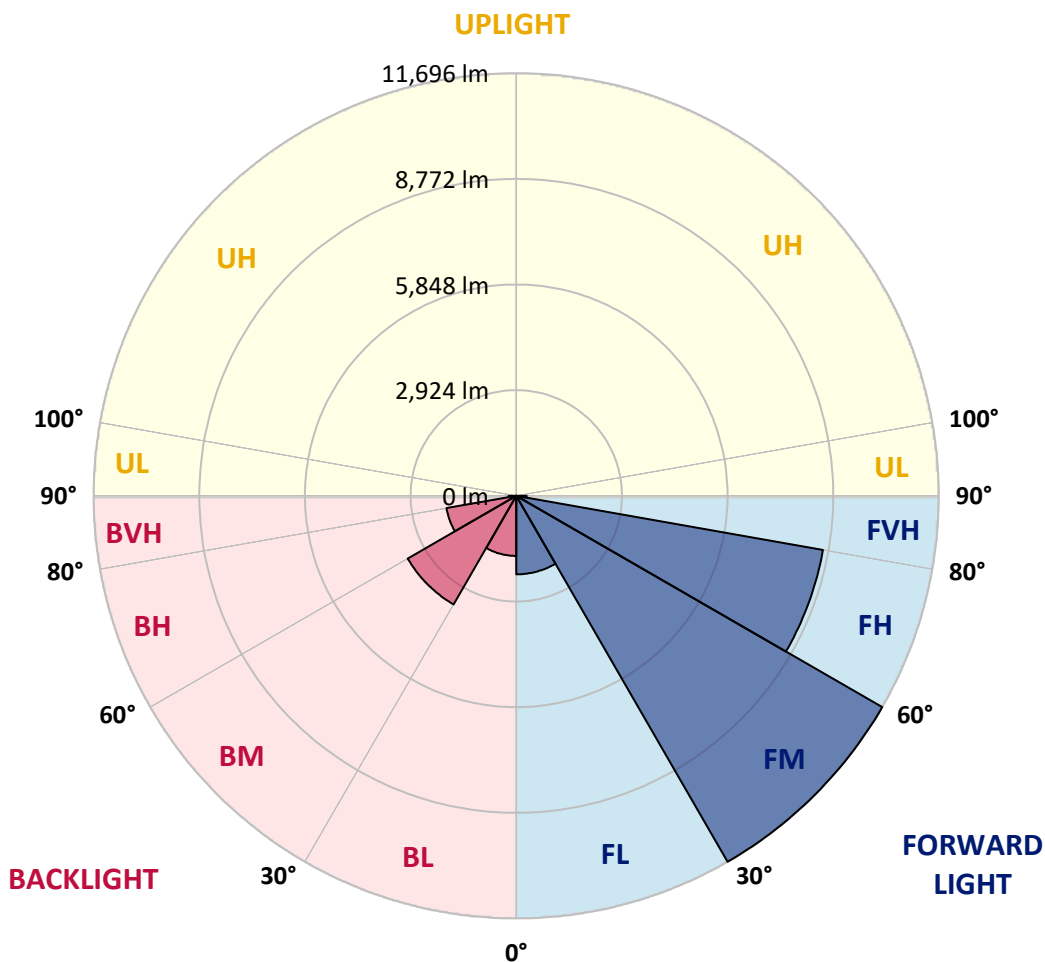


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2172.4	7.2			
FM (30°-60°)	11696.4	38.9			
FH (60°-80°)	8619.2	28.7			G4/12000
FVH (80°-90°)	286.0	1.0			G3/500
BL (0°-30°)	1664.3	5.5	B3/2500		
BM (30°-60°)	3469.1	11.5	B3/5000		
BH (60°-80°)	1960.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	213.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0
2.5°	4081.3	4079.6	4084.6	4079.6	4083.0	4071.2	4066.2	4069.6	4064.5	4056.1	4041.1
5°	4131.6	4129.9	4131.6	4124.8	4128.2	4121.6	4109.8	4113.1	4104.7	4086.3	4064.5
7.5°	4217.1	4210.3	4210.3	4208.7	4202.0	4191.9	4183.6	4180.2	4171.8	4148.3	4114.8
10°	4327.8	4327.8	4329.4	4316.1	4324.4	4306.0	4297.6	4295.9	4267.4	4237.2	4190.3
12.5°	4473.7	4482.0	4477.0	4470.3	4466.9	4460.2	4431.7	4438.4	4406.6	4354.6	4297.6
15°	4654.7	4668.2	4659.8	4656.4	4648.0	4622.9	4611.2	4606.1	4564.2	4488.7	4413.3
17.5°	4894.5	4877.8	4871.0	4862.7	4827.4	4809.0	4788.9	4785.5	4748.7	4659.8	4542.4
20°	5104.1	5127.6	5114.2	5105.8	5070.6	5035.4	5020.3	5015.3	4983.4	4886.2	4698.3
22.5°	5353.9	5359.0	5364.0	5343.9	5327.1	5300.3	5273.4	5265.0	5253.3	5152.8	4923.0
25°	5620.5	5640.7	5623.9	5603.8	5583.7	5582.0	5607.1	5603.8	5598.8	5501.5	5221.5
27.5°	6054.9	6073.3	6078.4	6056.5	5979.4	5986.1	6043.1	6061.5	6138.6	5977.7	5605.5
30°	6299.6	6318.1	6360.0	6442.2	6564.6	6671.9	6809.4	6851.3	6925.1	6621.6	6061.5
32.5°	6450.6	6457.2	6532.7	6685.3	7052.6	7453.3	7827.2	7842.3	7889.3	7463.3	6479.1
35°	6688.7	6693.7	6754.1	6921.7	7352.7	8020.0	8598.5	8617.0	8578.4	7724.9	6673.6
37.5°	6982.1	6995.5	7034.1	7173.2	7688.0	8494.5	8918.8	8905.4	8563.3	7932.8	7017.3
40°	7409.7	7409.7	7364.4	7552.2	8041.8	8766.2	9031.1	9007.6	8917.1	8534.8	7540.4
42.5°	7786.9	7780.3	7887.6	8015.0	8484.5	9185.4	9502.3	9540.9	9690.1	9291.0	8135.7
45°	8278.3	8308.4	8368.8	8600.2	9237.4	9901.3	10310.5	10347.4	10558.7	10181.4	8831.6
47.5°	8774.6	8784.6	8974.1	9282.6	10169.7	10872.2	11207.5	11267.9	11460.8	11222.7	9581.1
50°	9126.7	9222.3	9525.7	10012.1	11130.4	12056.0	12317.6	12389.7	12730.1	12356.1	10454.7
52.5°	9499.0	9592.8	9963.4	10704.5	12233.7	13266.7	13588.6	13637.2	13991.0	13503.1	11348.4
55°	9817.5	9904.7	10325.6	11318.3	13112.4	14502.4	15086.0	15029.0	15198.3	14386.8	12037.6
57.5°	9869.5	9940.0	10469.8	11710.6	13773.0	15562.2	16398.8	16432.4	16236.2	15047.4	12606.0
60°	9467.1	9611.2	10220.0	11668.7	14069.8	16299.9	17378.1	17401.6	16844.9	15386.1	12832.4
62.5°	8754.5	8739.4	9475.5	10994.7	13654.0	16467.6	17954.9	17929.8	17083.0	15223.5	12612.7
64°	7770.2	7951.3	8638.8	10166.3	12983.3	16209.4	18015.3	18001.9	16969.0	14884.8	12238.8
65°	7169.9	7159.8	7838.9	9488.9	12316.0	15820.4	17908.0	17889.5	16730.9	14581.3	11948.7
67.5°	5176.2	5199.7	5870.4	7322.5	10012.1	14299.5	17208.8	17140.0	15791.9	13575.2	10845.4
70°	3135.6	3149.0	3675.5	4857.7	7186.7	11559.7	15511.9	15515.2	14354.9	12072.8	9230.6
72.5°	1651.7	1686.8	1898.1	2758.3	4364.7	8110.5	12584.2	12882.7	12324.3	10303.8	7292.3
75°	918.9	923.9	1073.1	1359.8	2226.8	4539.1	9458.7	9544.2	9757.2	8293.3	5392.5
77.5°	700.9	711.0	757.9	878.6	1212.3	2104.4	5724.5	6153.8	6876.5	5846.9	3076.9
80°	568.5	578.5	618.7	690.8	806.6	997.7	2659.4	2890.8	3680.5	2595.6	1200.6
82.5°	442.7	436.0	488.0	534.9	586.9	590.2	1091.6	1207.3	1499.1	1116.7	519.8
85°	328.6	328.6	370.6	360.5	379.0	345.4	481.2	531.5	600.2	474.5	241.5
87.5°	130.8	144.2	243.1	218.0	169.4	135.9	177.7	187.8	207.9	186.1	100.6
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°	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0	4036.0
2.5°	4042.7	4047.7	4036.0	4027.6	4024.2	4019.2	4014.2	4015.9	4022.6	4029.3	4027.6
5°	4062.8	4064.5	4044.4	4034.3	4027.6	4020.9	4020.9	4026.0	4039.3	4049.4	4049.4
7.5°	4113.1	4113.1	4084.6	4066.2	4056.1	4044.4	4041.1	4042.7	4052.8	4066.2	4067.8
10°	4191.9	4185.2	4148.3	4119.8	4101.4	4072.9	4047.7	4034.3	4039.3	4047.7	4047.7
12.5°	4287.6	4269.1	4222.1	4183.6	4138.3	4084.6	4032.7	4005.8	4004.1	4012.6	4009.2
15°	4389.8	4369.7	4304.3	4233.8	4155.1	4076.2	4014.2	3975.6	3945.5	3937.1	3955.5
17.5°	4508.8	4466.9	4376.4	4279.2	4161.7	4059.5	3962.2	3883.4	3829.7	3814.7	3819.7
20°	4653.1	4597.7	4475.3	4322.7	4156.7	3999.1	3848.2	3742.6	3655.4	3628.6	3631.9
22.5°	4852.6	4757.0	4577.6	4344.6	4114.8	3885.1	3675.5	3538.0	3432.4	3390.5	3415.6
25°	5078.9	4975.0	4674.8	4339.5	4005.8	3702.3	3471.0	3291.5	3196.0	3133.9	3147.3
27.5°	5390.8	5206.4	4778.8	4294.2	3849.9	3479.3	3211.0	3041.6	2954.5	2922.6	2937.7
30°	5789.9	5506.5	4891.2	4171.8	3603.4	3197.6	2949.5	2838.8	2786.8	2746.5	2760.0
32.5°	6078.4	5717.8	4916.3	3965.6	3336.8	2941.1	2771.7	2689.5	2632.5	2594.0	2602.4
35°	6284.6	5897.2	4904.6	3712.4	3058.5	2729.8	2630.9	2563.8	2471.5	2387.8	2372.6
37.5°	6561.2	6121.9	4819.1	3435.7	2783.5	2587.3	2516.9	2392.8	2260.3	2147.9	2142.9
40°	6985.5	6385.1	4636.3	3110.4	2548.7	2481.6	2396.1	2235.2	2092.6	2002.1	1995.4
42.5°	7423.1	6628.3	4388.1	2768.4	2355.9	2370.9	2267.0	2107.7	2020.5	1961.8	1955.2
45°	7958.0	6891.6	4119.8	2471.5	2213.4	2267.0	2154.7	2062.4	2010.4	1971.9	1961.8
47.5°	8536.5	7161.5	3818.0	2204.9	2092.6	2171.4	2107.7	2065.8	2037.3	2010.4	1998.7
50°	9160.2	7463.3	3534.6	1990.3	1983.7	2072.5	2102.7	2087.6	2070.8	2062.4	2052.4
52.5°	9844.3	7771.8	3296.5	1839.4	1888.0	2002.1	2104.4	2116.1	2116.1	2111.0	2104.4
55°	10307.2	7986.5	3055.1	1717.0	1790.8	1945.1	2101.0	2146.3	2163.0	2156.3	2149.6
57.5°	10649.2	8103.9	2751.6	1611.4	1708.7	1889.7	2082.5	2149.6	2166.4	2174.8	2171.4
60°	10719.7	7994.9	2354.2	1500.7	1619.8	1809.3	2015.5	2099.3	2121.1	2173.1	2178.1
62.5°	10402.7	7659.5	1958.4	1391.7	1510.8	1686.8	1924.9	2042.3	2085.9	2166.4	2174.8
64°	10013.7	7283.9	1738.8	1323.0	1440.3	1618.1	1879.7	2027.2	2084.3	2191.5	2198.3
65°	9728.7	7010.6	1601.3	1279.3	1395.1	1572.8	1854.5	2032.3	2099.3	2230.1	2240.2
67.5°	8679.0	6069.9	1324.7	1177.1	1287.8	1495.7	1859.5	2074.2	2095.9	2245.2	2243.5
70°	7181.6	4832.4	1110.1	1083.2	1183.8	1433.7	1839.4	2007.1	2008.8	2107.7	2084.3
72.5°	5377.4	3571.5	962.5	986.0	1068.1	1286.1	1737.2	1916.5	1888.0	1901.4	1878.0
75°	3694.0	2362.5	828.3	882.0	947.4	1136.8	1592.9	1740.5	1695.2	1678.4	1661.7
77.5°	1971.9	1306.2	689.1	779.7	823.3	982.6	1390.1	1532.6	1485.6	1420.2	1398.4
80°	798.1	615.4	555.0	645.6	670.7	791.5	1157.0	1245.8	1210.6	1096.6	1059.7
82.5°	400.7	368.9	436.0	508.1	509.7	565.1	860.2	944.1	865.2	726.1	694.2
85°	209.6	216.3	300.1	357.1	315.2	305.1	516.5	571.7	524.8	456.1	410.8
87.5°	75.5	87.2	157.6	156.0	110.6	58.7	114.0	55.4	30.1	18.5	23.5
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)