

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: P522891

Luminaire Tested: **GLAN-SA8C-830-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-830-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45145 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

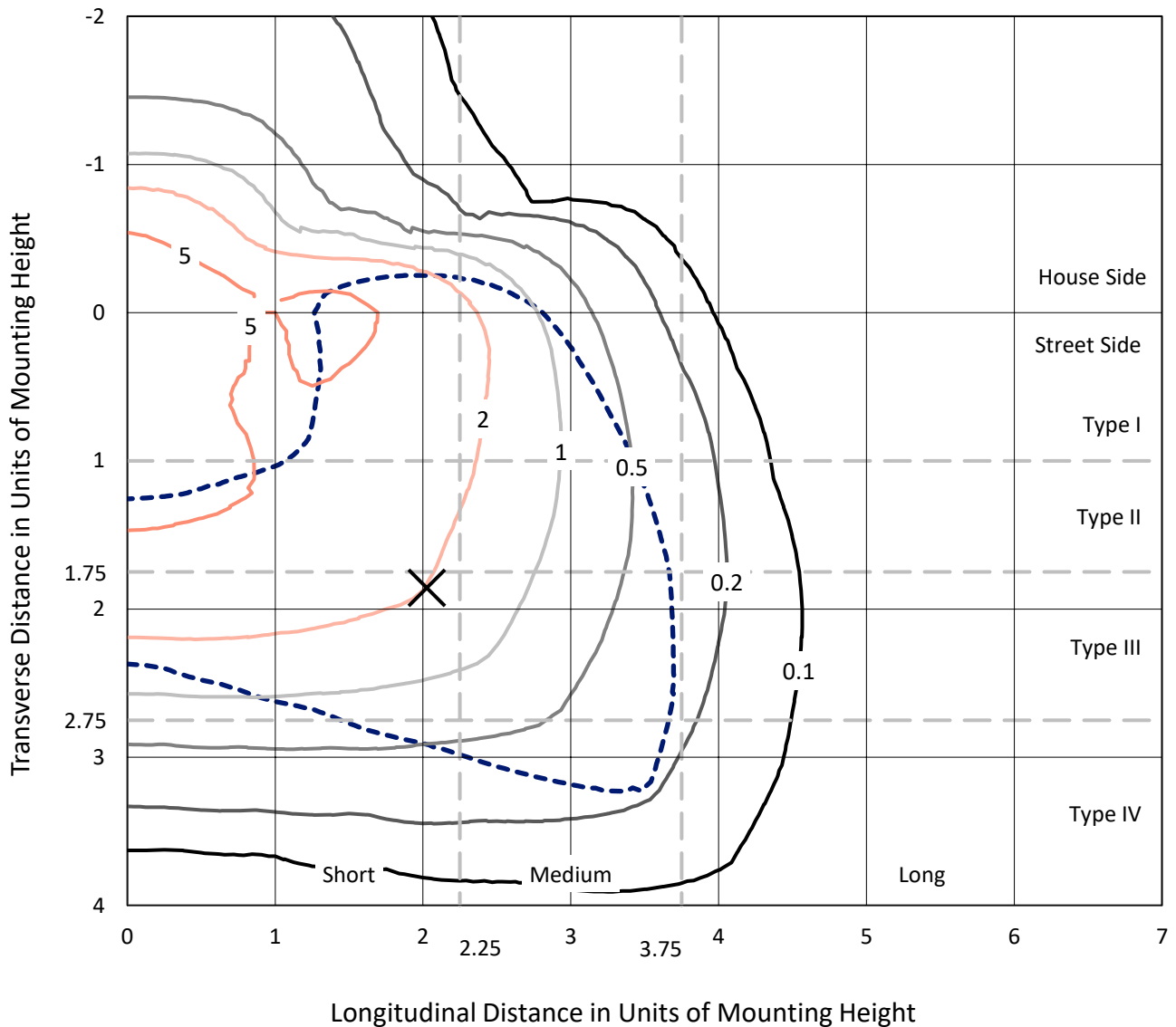
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

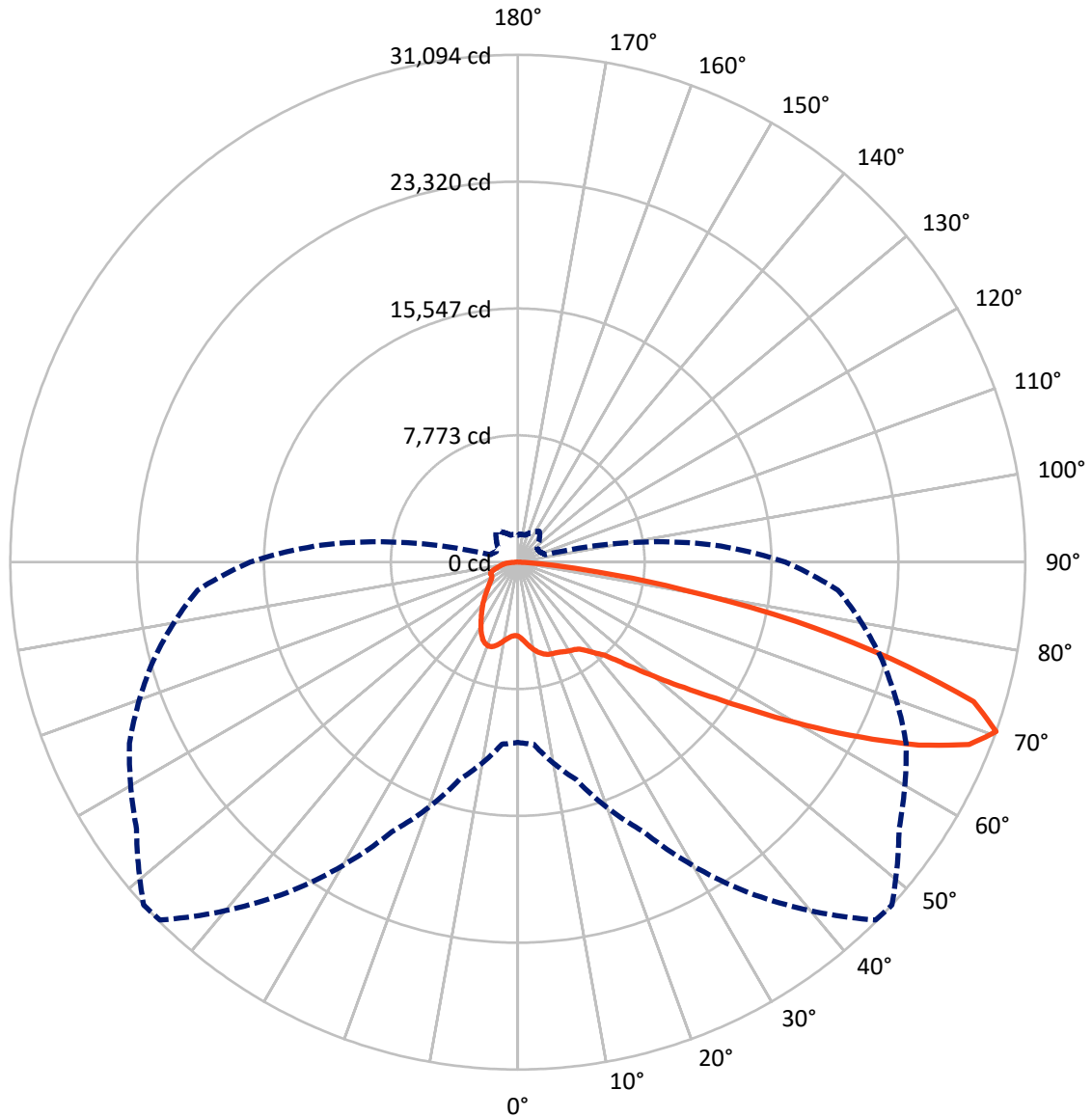
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10221.7	0.0	10221.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	34923.3	0.0	34923.3
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	45145.0	0.0	45145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.2	1.0
10°-20°	1561.7	3.5
20°-30°	2597.2	5.8
30°-40°	3681.1	8.2
40°-50°	5434.1	12.0
50°-60°	9412.0	20.8
60°-70°	13294.8	29.4
70°-80°	7642.6	16.9
80°-90°	1054.5	2.3
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°	45145.0	100.0
0°-180°	45145.0	100.0

**Coefficient of Utilization**



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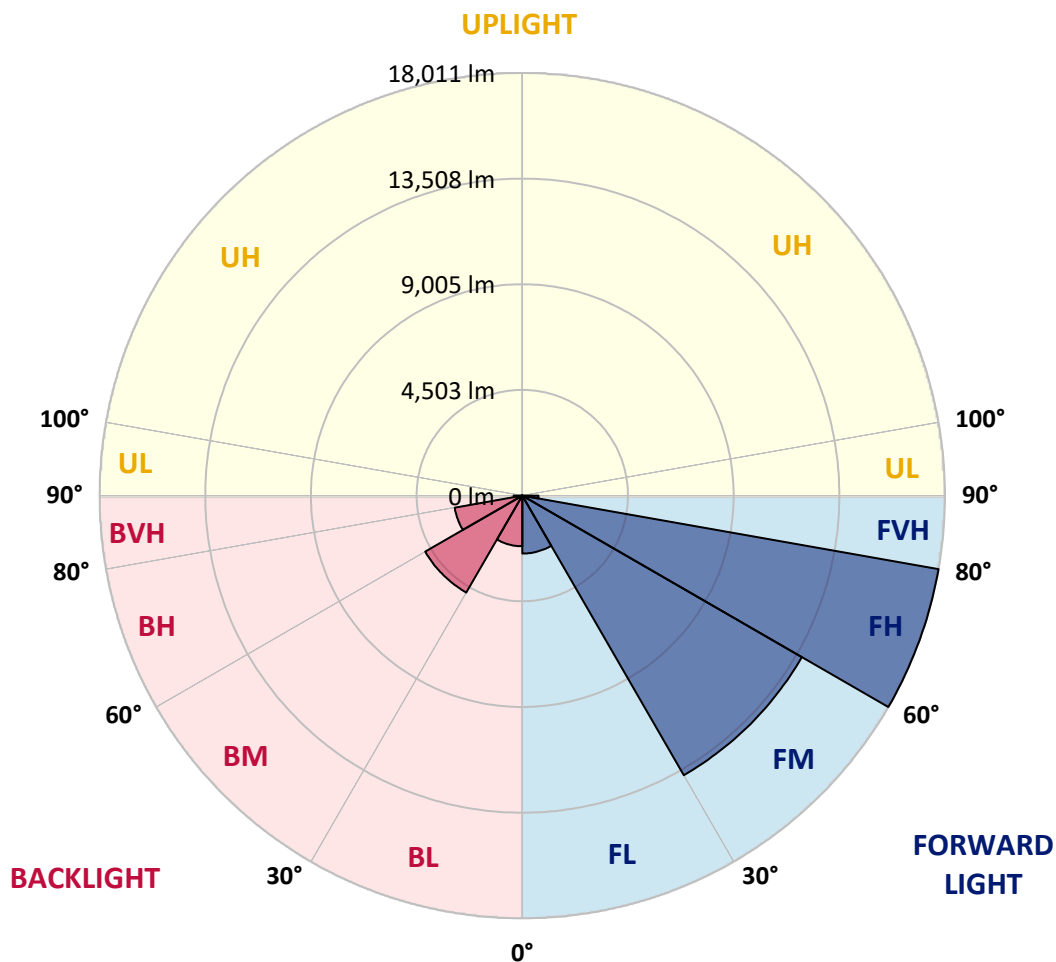
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2468.7	5.5			
FM	(30°-60°)	13754.8	30.5			
FH	(60°-80°)	18011.0	39.9			G5
FVH	(80°-90°)	688.8	1.5			G4/750
BL	(0°-30°)	2157.4	4.8	B3/2500		
BM	(30°-60°)	4772.3	10.6	B3/5000		
BH	(60°-80°)	2926.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	365.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0
2.5°	4824.3	4807.4	4805.0	4768.8	4749.4	4713.2	4698.7	4664.9	4623.8	4582.7	4544.1
5°	5203.6	5203.6	5186.7	5136.0	5056.2	4974.1	4937.9	4872.6	4756.7	4662.5	4582.7
7.5°	5592.5	5597.4	5563.6	5488.7	5375.1	5242.3	5208.4	5111.8	4947.5	4809.8	4691.5
10°	5928.3	5928.3	5882.4	5781.0	5638.4	5493.5	5459.7	5351.0	5167.4	4995.8	4841.2
12.5°	6184.4	6184.4	6124.0	5991.1	5836.5	5706.1	5667.4	5563.6	5392.0	5201.2	5005.5
15°	6351.1	6339.0	6271.4	6121.6	5971.8	5858.3	5831.7	5744.7	5587.7	5394.5	5174.6
17.5°	6358.3	6353.5	6288.3	6162.7	6032.2	5954.9	5938.0	5880.0	5756.8	5573.2	5341.3
20°	6218.2	6227.9	6184.4	6095.0	6032.2	5998.4	5991.1	5971.8	5884.9	5713.3	5481.4
22.5°	6068.5	6085.4	6044.3	5996.0	5991.1	6025.0	6029.8	6034.6	5979.1	5812.4	5599.8
25°	6032.2	6044.3	6003.2	5959.7	5986.3	6075.7	6095.0	6114.4	6070.9	5930.8	5739.9
27.5°	6215.8	6206.2	6126.4	6032.2	6049.1	6169.9	6196.5	6218.2	6196.5	6075.7	5913.8
30°	6735.2	6703.8	6544.4	6269.0	6182.0	6266.5	6293.1	6353.5	6353.5	6264.1	6102.3
32.5°	7604.9	7544.5	7252.2	6711.1	6409.1	6358.3	6384.9	6484.0	6534.7	6464.6	6288.3
35°	8660.6	8597.8	8179.9	7452.7	6824.6	6541.9	6534.7	6645.8	6781.1	6624.1	6394.6
37.5°	9721.1	9655.9	9153.4	8336.9	7431.0	6928.5	6885.0	6923.6	6981.6	6694.1	6541.9
40°	10781.7	10704.3	10264.7	9324.9	8172.6	7440.6	7327.1	7153.1	7129.0	6923.6	6827.0
42.5°	11832.5	11762.5	11540.2	10433.8	9061.6	7940.7	7766.8	7467.2	7559.0	7435.8	7351.2
45°	12893.1	12897.9	12661.1	11677.9	10134.2	8863.5	8629.2	8160.5	8377.9	8332.0	8380.4
47.5°	13832.8	13820.7	13736.2	12885.8	11465.3	10052.1	9750.1	9206.6	9578.6	9747.7	10117.3
50°	14743.5	14736.3	14741.1	14255.6	13011.4	11465.3	11131.9	10561.8	11400.1	11987.1	12649.1
52.5°	16048.1	16089.1	15796.8	15668.8	14890.9	13134.6	12767.4	12178.0	13552.6	14477.8	15770.3
55°	17357.4	17323.6	17094.1	17227.0	16857.4	15110.7	14726.6	14258.0	15949.0	16961.2	18903.5
57.5°	18128.1	18140.1	18374.5	19024.3	19285.2	17574.8	17227.0	16864.6	18642.6	19360.1	21691.3
60°	18821.4	18877.0	19551.0	20778.2	21486.0	20601.8	20292.6	19939.9	21114.0	21399.0	24112.0
62.5°	19038.8	19210.3	20386.8	22222.8	23631.2	24017.7	23633.6	22855.8	23466.9	23355.8	25752.3
65°	17954.1	18188.5	20297.4	22764.0	25546.9	27259.7	27015.7	25571.1	25472.0	24802.9	26020.4
67.5°	15098.7	15333.0	18041.1	21628.5	26339.3	30066.9	29822.9	27552.0	26689.6	24938.2	23991.2
70°	11047.4	11194.8	13784.5	18210.2	24747.3	31009.0	31093.6	28518.4	26254.8	23099.7	19698.3
72.5°	6365.6	6691.7	8506.0	12810.9	20217.7	28627.1	29214.1	26508.4	23505.6	19270.7	13772.4
75°	2737.1	2744.3	3932.9	7066.2	13692.7	23010.4	23578.1	21974.0	18459.0	13325.5	7353.7
77.5°	1302.1	1326.3	1729.7	3155.0	7537.3	15898.3	17429.9	15523.8	11805.9	6401.8	2778.2
80°	845.5	862.4	1058.1	1565.4	3696.2	9218.6	10286.4	8955.3	5208.4	2287.7	1198.2
82.5°	512.1	517.0	707.8	956.7	2034.1	4174.5	4921.0	3887.0	2222.5	1369.8	705.4
85°	311.6	314.1	430.0	591.9	1234.5	1442.2	1480.9	1468.8	1304.5	896.3	376.9
87.5°	149.8	154.6	222.3	280.2	485.6	446.9	422.8	490.4	616.0	483.2	161.9
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°	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0
2.5°	4527.2	4519.9	4503.0	4495.8	4490.9	4493.4	4490.9	4490.9	4493.4	4493.4	4493.4
5°	4548.9	4536.8	4510.3	4510.3	4524.8	4558.6	4590.0	4614.2	4640.7	4638.3	4638.3
7.5°	4643.1	4621.4	4590.0	4599.7	4635.9	4689.0	4744.6	4797.8	4850.9	4855.7	4853.3
10°	4780.8	4759.1	4725.3	4737.4	4795.3	4875.1	4945.1	5022.4	5080.4	5097.3	5092.5
12.5°	4937.9	4894.4	4865.4	4899.2	4991.0	5097.3	5165.0	5222.9	5264.0	5288.2	5278.5
15°	5097.3	5056.2	5022.4	5092.5	5203.6	5302.7	5336.5	5346.1	5353.4	5377.5	5372.7
17.5°	5251.9	5196.4	5184.3	5276.1	5382.4	5425.9	5406.5	5365.5	5334.1	5353.4	5351.0
20°	5389.6	5346.1	5341.3	5433.1	5474.2	5433.1	5351.0	5278.5	5222.9	5227.8	5225.3
22.5°	5520.1	5486.3	5491.1	5529.7	5464.5	5324.4	5189.1	5090.1	5029.7	5041.7	5049.0
25°	5665.0	5631.2	5643.3	5580.5	5365.5	5121.5	4925.8	4841.2	4817.1	4841.2	4858.1
27.5°	5853.4	5831.7	5824.5	5582.9	5189.1	4821.9	4599.7	4568.3	4590.0	4643.1	4669.7
30°	6056.4	6056.4	6017.7	5541.8	4947.5	4462.0	4268.7	4273.5	4348.4	4423.3	4449.9
32.5°	6252.1	6293.1	6172.3	5430.7	4635.9	4111.7	3964.3	3969.1	4034.4	4126.2	4150.3
35°	6413.9	6532.3	6305.2	5227.8	4268.7	3816.9	3705.8	3640.6	3643.0	3713.1	3732.4
37.5°	6636.2	6856.0	6382.5	4925.8	3877.3	3565.7	3440.1	3326.5	3251.6	3222.7	3222.7
40°	7022.7	7346.4	6401.8	4478.9	3507.7	3326.5	3147.8	3012.5	2867.5	2737.1	2712.9
42.5°	7677.4	8085.6	6363.2	3964.3	3174.3	3063.2	2889.3	2722.6	2522.1	2338.5	2324.0
45°	8836.9	9047.1	6259.3	3430.4	2877.2	2809.6	2640.5	2459.3	2246.7	2082.4	2070.3
47.5°	10694.7	10397.5	6121.6	2956.9	2606.6	2587.3	2456.9	2246.7	2034.1	1920.5	1908.5
50°	13407.6	12523.4	6102.3	2613.9	2389.2	2398.9	2292.6	2099.3	1913.3	1819.1	1804.6
52.5°	16673.8	15091.4	6230.3	2372.3	2198.4	2234.6	2181.5	2002.7	1838.4	1758.7	1744.2
55°	19843.3	17400.9	6307.6	2183.9	2019.6	2087.2	2094.5	1944.7	1794.9	1715.2	1705.5
57.5°	22416.1	19140.3	5964.6	2012.3	1865.0	1968.9	2022.0	1910.9	1773.2	1712.8	1703.1
60°	24206.2	19961.6	4988.6	1860.2	1751.4	1874.7	1995.4	1913.3	1826.3	1833.6	1838.4
62.5°	24776.3	19596.9	3742.1	1746.6	1674.1	1843.2	2038.9	2012.3	1923.0	1978.5	1988.2
65°	23831.7	18089.4	2712.9	1657.2	1606.5	1865.0	2169.4	2084.8	1889.1	1930.2	1930.2
67.5°	20669.5	15584.2	2111.4	1575.1	1529.2	1906.1	2299.8	2077.6	1809.4	1857.7	1814.3
70°	16395.9	12054.8	1758.7	1483.3	1447.1	1845.7	2311.9	2002.7	1715.2	1724.9	1642.7
72.5°	10880.7	7926.2	1512.3	1396.3	1321.4	1659.6	2212.9	1906.1	1623.4	1567.8	1485.7
75°	5331.6	3952.2	1319.0	1287.6	1157.2	1444.6	2077.6	1814.3	1524.4	1437.4	1391.5
77.5°	2065.5	1681.4	1125.8	1149.9	1007.4	1273.1	1898.8	1683.8	1393.9	1275.5	1239.3
80°	1002.6	954.2	922.8	959.1	828.6	1084.7	1734.5	1570.3	1273.1	1142.7	1089.5
82.5°	623.3	589.5	707.8	746.5	637.8	990.5	1645.2	1473.6	1120.9	947.0	903.5
85°	316.5	338.2	473.5	509.7	456.6	787.5	1355.3	1106.4	809.3	671.6	676.4
87.5°	120.8	161.9	248.8	268.2	244.0	415.5	746.5	645.0	519.4	352.7	326.1
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)