

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: P456001

Luminaire Tested: **GLAN-SA7B-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456001  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7B-727-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32444 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

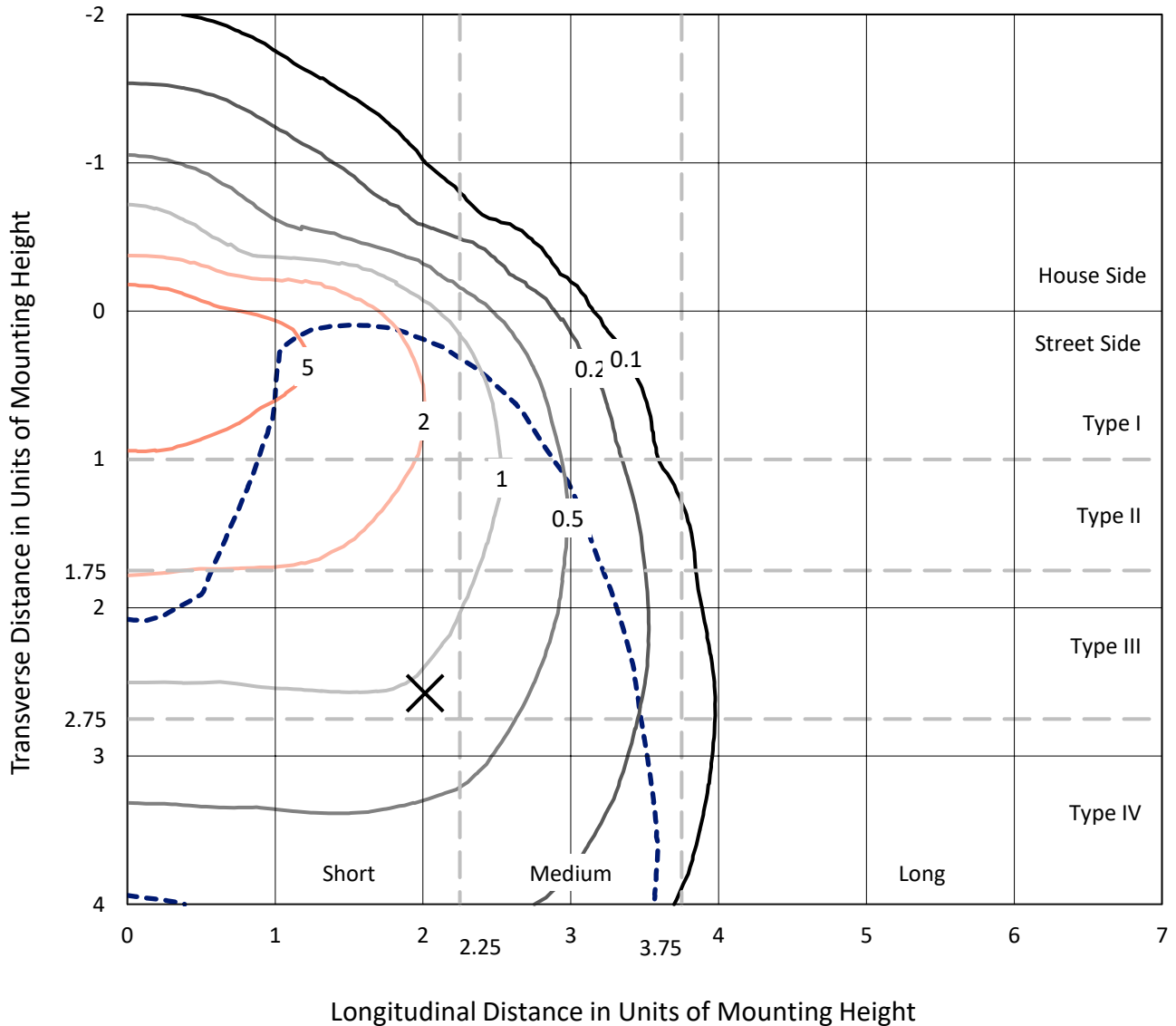
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

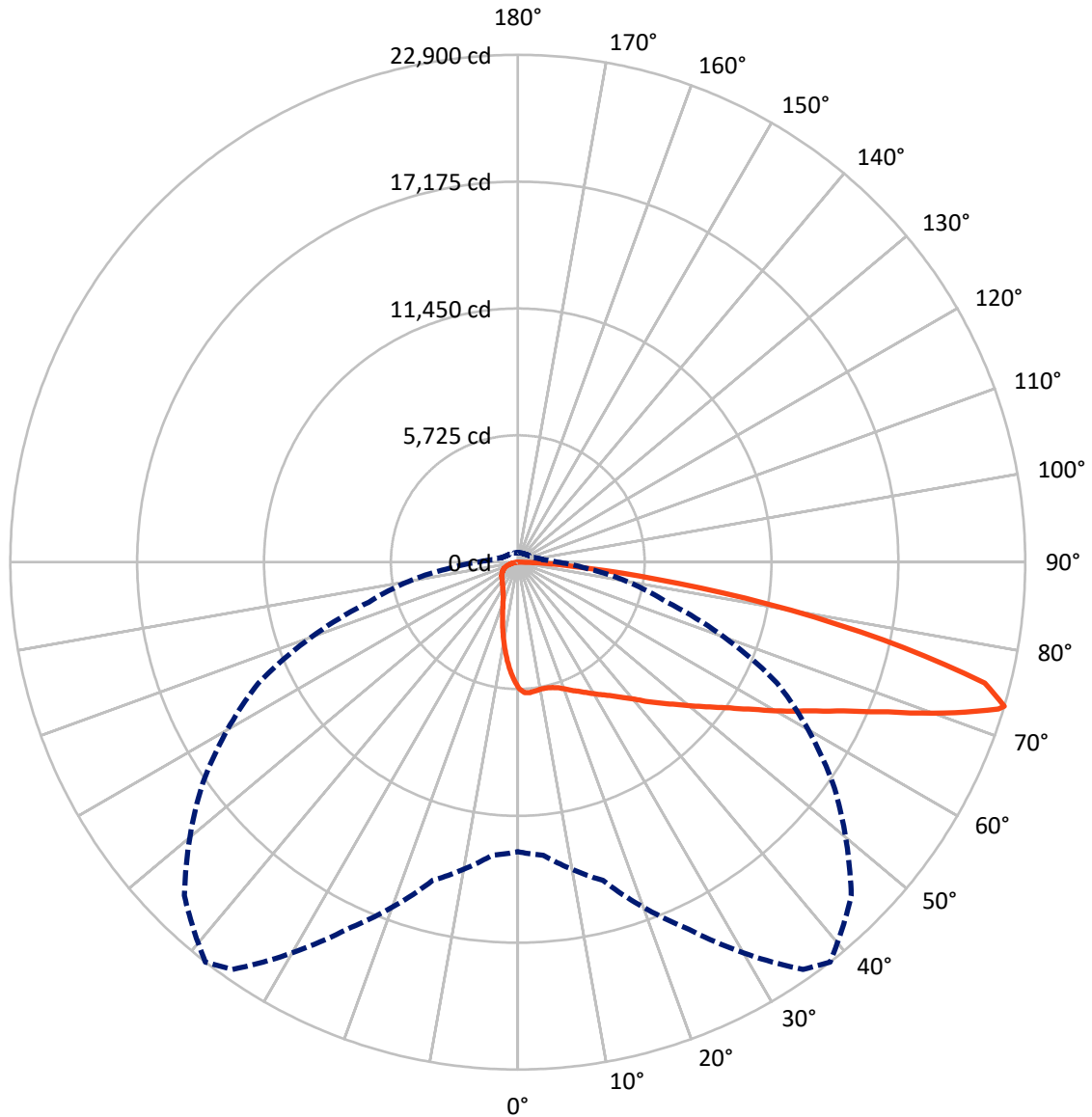
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4361.4	0.0	4361.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	28082.6	0.0	28082.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	32444.0	0.0	32444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.5	1.5
10°-20°	1275.8	3.9
20°-30°	1986.7	6.1
30°-40°	2914.1	9.0
40°-50°	4322.7	13.3
50°-60°	6124.4	18.9
60°-70°	7769.0	23.9
70°-80°	6467.1	19.9
80°-90°	1086.6	3.3
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°	32444.0	100.0
0°-180°	32444.0	100.0

**Coefficient of Utilization**



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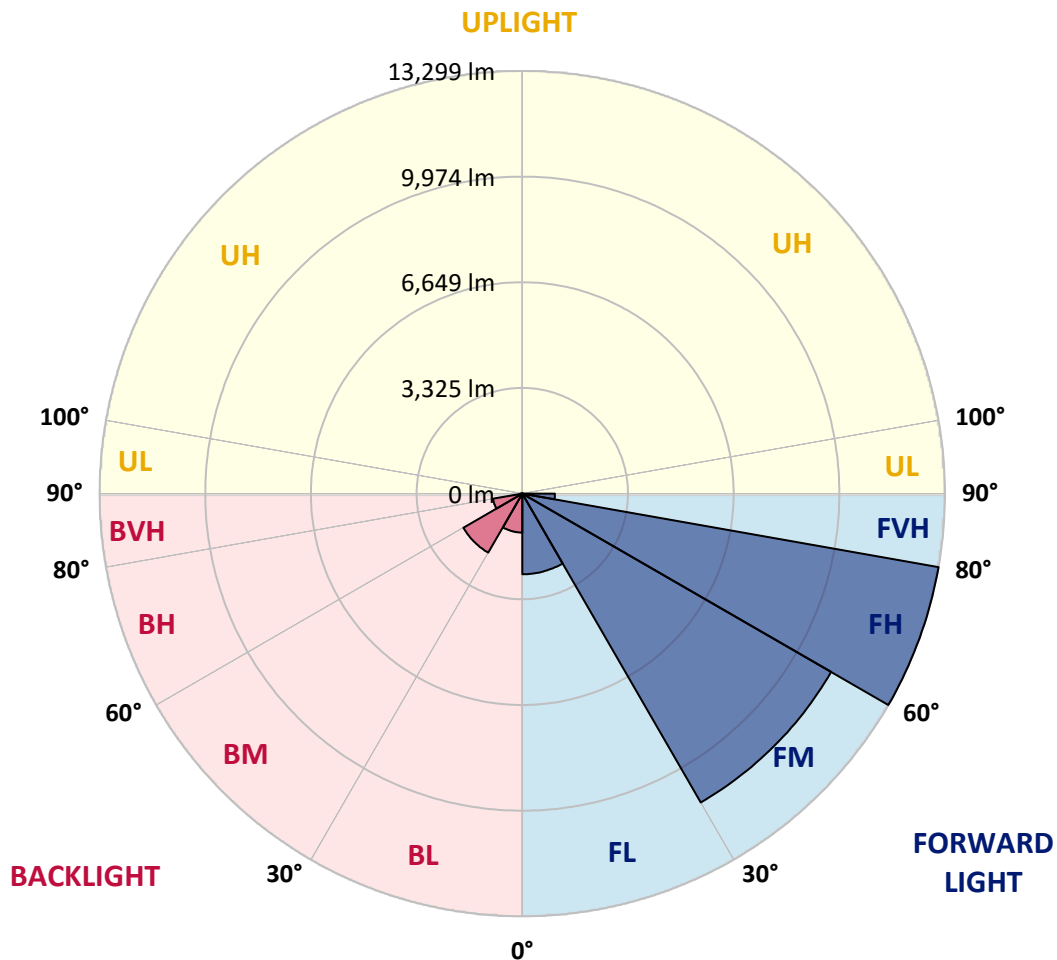
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2536.2	7.8			
FM (30°-60°)	11220.0	34.6			
FH (60°-80°)	13298.7	41.0			G5
FVH (80°-90°)	1027.6	3.2			G5
BL (0°-30°)	1223.9	3.8	B3/2500		
BM (30°-60°)	2141.2	6.6	B2/2500		
BH (60°-80°)	937.5	2.9	B2/1000		G2/1000
BVH (80°-90°)	58.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5928.9	5958.2	5943.5	5923.4	5910.6	5897.7	5879.4	5826.3	5784.1	5738.3	5666.9
5°	5972.9	5991.2	5978.3	5952.7	5923.4	5910.6	5875.7	5806.1	5738.3	5661.4	5555.1
7.5°	5947.2	5954.5	5939.9	5908.7	5883.1	5859.3	5819.0	5742.0	5659.6	5566.1	5426.9
10°	5855.6	5883.1	5883.1	5857.4	5831.8	5819.0	5778.6	5705.4	5630.2	5524.0	5359.1
12.5°	5780.5	5809.8	5833.6	5826.3	5824.4	5824.4	5793.3	5738.3	5650.4	5549.6	5353.6
15°	5729.2	5764.0	5815.3	5844.6	5862.9	5868.4	5855.6	5808.0	5718.2	5600.9	5375.6
17.5°	5718.2	5760.3	5853.8	5917.9	5965.5	5963.7	5960.0	5894.1	5795.1	5674.2	5403.1
20°	5767.7	5822.6	5952.7	6053.5	6123.1	6110.3	6090.1	6004.0	5888.6	5753.0	5428.7
22.5°	5916.1	5972.9	6115.8	6225.7	6293.5	6293.5	6233.0	6119.4	5996.7	5844.6	5463.5
25°	6128.6	6190.9	6343.0	6454.7	6485.9	6462.0	6401.6	6264.2	6123.1	5976.5	5536.8
27.5°	6388.8	6463.9	6604.9	6698.4	6689.2	6670.9	6608.6	6432.7	6291.6	6157.9	5661.4
30°	6713.0	6768.0	6914.6	6936.6	6903.6	6899.9	6812.0	6636.1	6504.2	6401.6	5839.1
32.5°	7019.0	7068.5	7185.7	7194.9	7136.3	7143.6	7061.2	6899.9	6824.8	6788.2	6137.7
35°	7343.3	7369.0	7469.7	7458.7	7420.3	7414.8	7381.8	7227.9	7251.7	7317.7	6561.0
37.5°	7614.5	7665.8	7722.6	7731.7	7729.9	7748.2	7770.2	7696.9	7834.3	8041.4	7116.1
40°	7863.6	7907.6	7991.9	8021.2	8092.7	8129.3	8204.4	8206.3	8523.2	8864.0	7799.5
42.5°	8032.2	8107.3	8264.9	8318.0	8492.1	8602.0	8713.8	8832.9	9292.7	9730.6	8605.7
45°	8178.8	8277.7	8539.7	8704.6	8941.0	9074.7	9311.1	9560.2	10221.6	10795.1	9424.6
47.5°	8400.5	8488.4	8788.9	9080.2	9437.5	9591.4	9945.0	10316.9	11181.7	11810.1	10208.8
50°	8708.3	8761.4	9067.4	9541.9	9998.1	10196.0	10663.2	11200.0	12207.7	12812.3	10897.7
52.5°	9102.2	9124.2	9367.9	9999.9	10600.9	10846.4	11465.7	12092.3	13105.5	13682.6	11443.7
55°	9567.6	9530.9	9721.5	10485.5	11289.8	11610.4	12275.5	12995.5	14115.0	14386.1	11841.3
57.5°	10027.4	9970.6	10122.7	11075.4	12139.9	12526.5	13301.5	13926.3	15016.4	15043.9	12119.8
60°	10514.8	10472.6	10654.0	11768.0	13182.4	13640.5	14356.8	14891.8	15888.5	15501.9	12163.7
62.5°	11015.0	10947.2	11205.5	12546.7	14356.8	14772.7	15467.1	15917.8	16744.1	15672.3	11740.5
65°	11500.5	11469.3	11868.8	13471.9	15694.3	16167.0	16841.2	17147.2	17429.4	15415.8	10690.7
67.5°	12017.2	12079.5	12717.0	14706.8	17438.5	18032.2	18759.5	18471.9	17625.4	14201.1	9003.3
70°	12805.0	12845.3	13831.0	16324.6	19686.6	20403.0	20754.7	18942.7	16680.0	11894.4	6768.0
72.5°	13143.9	13321.7	14825.9	18023.0	22240.6	22678.5	21425.3	17892.9	13895.1	8079.8	3556.2
73°	13068.8	13281.4	14871.7	18281.3	22440.3	22900.2	21282.4	17352.4	12916.8	6958.6	3048.7
75°	12132.6	12394.6	14276.2	18065.1	22051.9	21777.1	18984.9	14789.2	8728.4	3164.1	1388.8
77.5°	9573.1	9648.2	11311.8	14587.7	17365.2	16855.9	14208.4	9243.3	3565.4	1176.2	787.8
80°	4802.1	5078.8	6375.9	8356.5	11612.3	11445.5	8968.4	4371.5	1485.9	690.7	522.2
82.5°	2310.4	2506.4	3105.5	4074.7	6416.2	6264.2	4441.2	2389.1	943.6	403.1	307.8
85°	1487.7	1634.3	1976.9	1943.9	2638.3	2519.2	1995.2	1808.3	558.8	210.7	214.4
87.5°	982.0	1075.5	1289.8	1031.5	960.1	868.4	881.3	1018.7	109.9	80.6	29.3
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°	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9	5699.9
2.5°	5637.6	5613.7	5535.0	5458.0	5384.7	5315.1	5269.3	5208.8	5168.5	5179.5	5196.0
5°	5496.5	5443.4	5304.1	5168.5	5040.3	4888.2	4765.5	4666.5	4591.4	4563.9	4558.4
7.5°	5348.1	5258.3	5058.6	4825.9	4607.9	4419.2	4201.2	4093.1	3966.6	3922.7	3908.0
10°	5258.3	5137.4	4857.1	4532.8	4204.8	3891.5	3655.2	3462.8	3288.7	3255.8	3239.3
12.5°	5232.7	5073.3	4695.8	4278.1	3842.0	3457.3	3107.3	2854.5	2686.0	2647.5	2590.7
15°	5218.0	5020.1	4545.6	4021.6	3468.3	2999.3	2631.0	2336.0	2182.1	2079.5	2081.3
17.5°	5205.2	4959.7	4377.0	3741.3	3145.8	2605.3	2198.6	1932.9	1791.9	1736.9	1731.4
20°	5186.9	4888.2	4182.8	3446.3	2777.6	2246.2	1878.0	1680.1	1584.8	1539.0	1537.2
22.5°	5179.5	4818.6	3992.3	3145.8	2451.4	1969.6	1665.4	1526.2	1465.7	1434.6	1434.6
25°	5197.8	4769.1	3792.6	2860.0	2162.0	1733.2	1518.9	1423.6	1388.8	1372.3	1366.8
27.5°	5254.6	4747.1	3594.7	2574.2	1896.3	1572.0	1419.9	1354.0	1328.3	1315.5	1317.3
30°	5362.7	4745.3	3400.5	2292.0	1698.4	1449.2	1341.1	1295.3	1275.2	1267.9	1266.0
32.5°	5536.8	4785.6	3210.0	2059.4	1531.7	1346.6	1267.9	1234.9	1225.7	1220.2	1218.4
35°	5831.8	4899.2	3021.2	1846.8	1403.4	1255.0	1198.2	1181.7	1168.9	1174.4	1176.2
37.5°	6229.4	5095.2	2841.7	1680.1	1306.3	1187.2	1139.6	1124.9	1117.6	1123.1	1128.6
40°	6762.5	5377.4	2691.4	1546.3	1236.7	1130.4	1088.3	1075.5	1068.2	1077.3	1079.1
42.5°	7350.6	5703.5	2566.9	1441.9	1179.9	1082.8	1042.5	1027.8	1022.3	1027.8	1029.7
45°	7955.3	6082.8	2502.7	1366.8	1132.3	1048.0	1005.9	989.4	976.5	972.9	978.4
47.5°	8550.7	6412.6	2500.9	1321.0	1093.8	1016.9	971.0	952.7	936.2	927.1	925.2
50°	9036.2	6674.6	2544.9	1300.8	1060.8	982.0	936.2	917.9	895.9	877.6	881.3
52.5°	9402.7	6845.0	2565.0	1291.7	1042.5	945.4	899.6	883.1	857.5	833.6	833.6
55°	9639.0	6885.3	2515.6	1282.5	1027.8	906.9	857.5	842.8	817.1	793.3	793.3
57.5°	9719.6	6760.7	2337.8	1260.5	1013.2	873.9	815.3	802.5	782.3	758.5	754.9
60°	9532.7	6339.3	2026.4	1194.6	983.9	839.1	769.5	764.0	756.7	736.5	734.7
62.5°	8812.7	5445.2	1687.4	1108.5	934.4	802.5	727.4	736.5	742.0	731.0	729.2
65°	7614.5	4421.0	1441.9	989.4	868.4	751.2	681.6	705.4	720.0	720.0	716.4
67.5°	6176.2	3395.0	1214.7	886.8	786.0	681.6	630.3	648.6	659.6	655.9	665.1
70°	4389.9	2299.4	989.4	769.5	681.6	602.8	564.3	564.3	557.0	553.3	553.3
72.5°	2129.0	1313.7	802.5	643.1	580.8	514.8	483.7	470.9	456.2	454.4	445.2
73°	1779.0	1178.1	765.8	619.3	557.0	502.0	467.2	447.0	437.9	430.6	428.7
75°	1082.8	894.1	639.4	522.2	474.5	432.4	401.2	382.9	373.8	368.3	366.4
77.5°	712.7	666.9	496.5	399.4	362.8	337.1	324.3	306.0	300.5	293.1	293.1
80°	531.3	509.3	355.4	282.2	260.2	238.2	234.5	230.9	216.2	207.0	203.4
82.5°	342.6	362.8	241.8	188.7	164.9	146.6	148.4	153.9	139.2	126.4	122.8
85°	243.7	262.0	146.6	86.1	69.6	60.5	67.8	60.5	62.3	49.5	40.3
87.5°	40.3	69.6	25.7	11.0	5.5	3.7	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)