

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: P317690

Luminaire Tested: **GAN-SA6C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36171 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

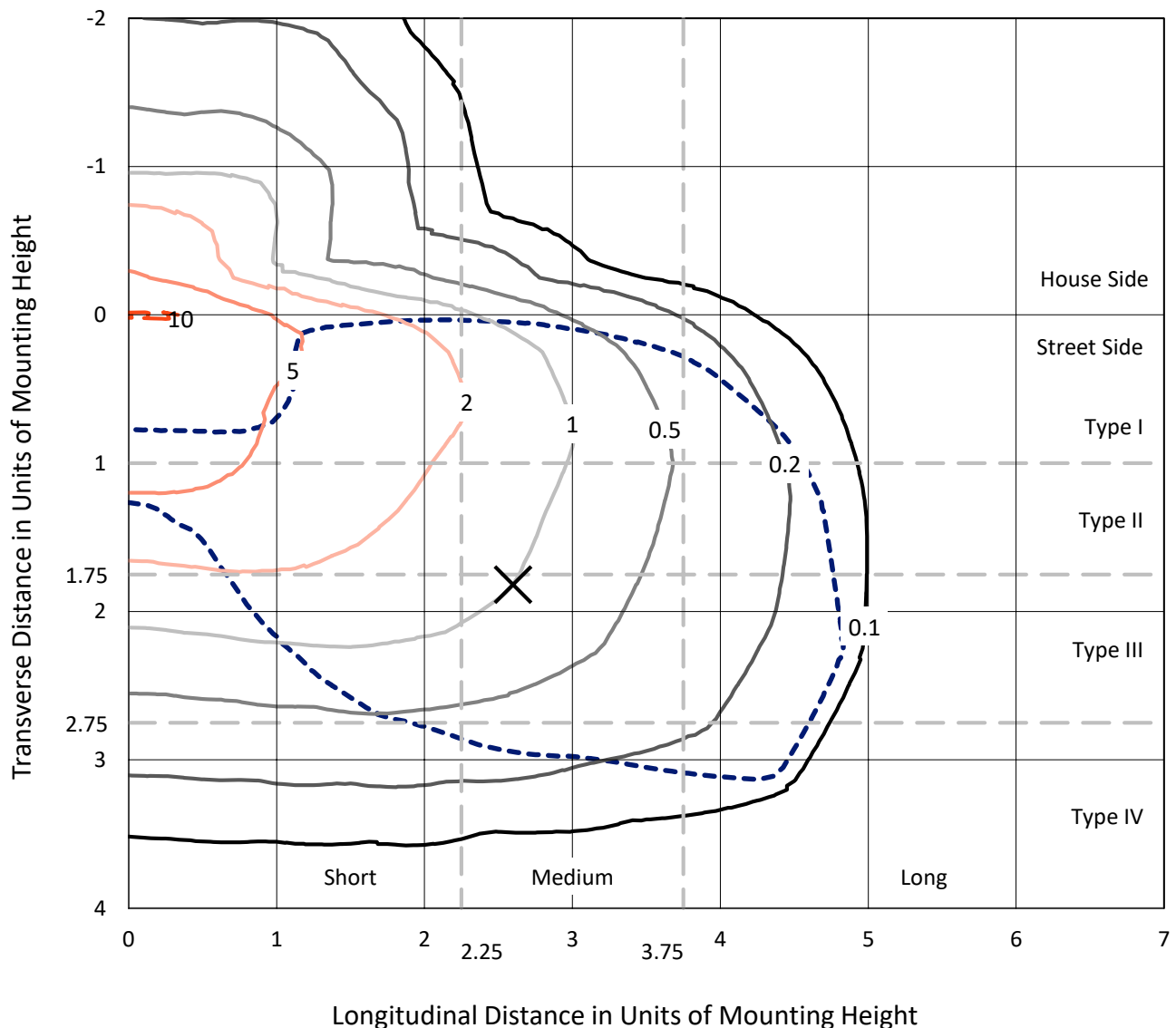
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

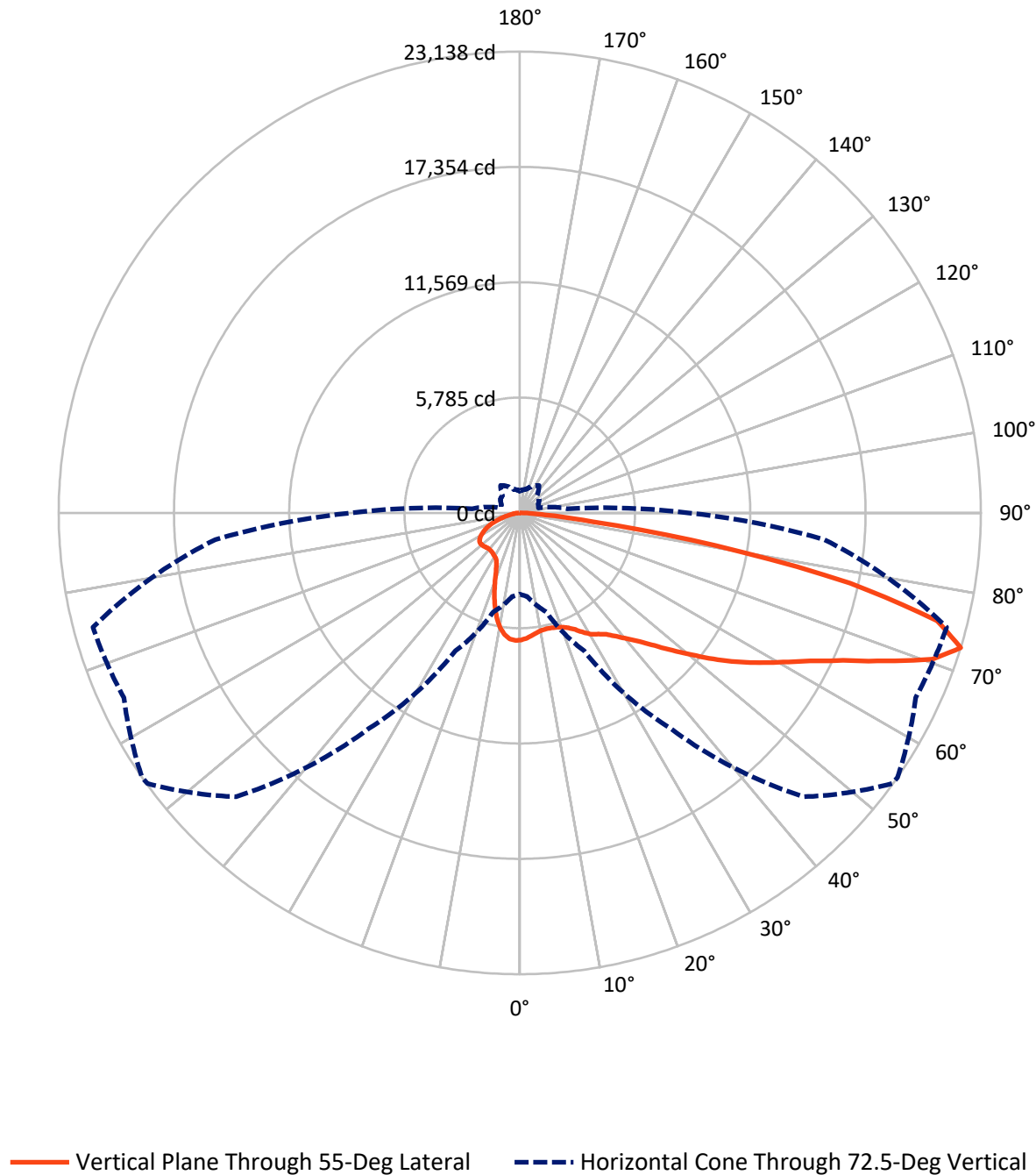
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6723.0	0.0	6723.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29448.0	0.0	29448.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	36171.0	0.0	36171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.3	1.6
10°-20°	1537.0	4.2
20°-30°	2534.1	7.0
30°-40°	3748.6	10.4
40°-50°	5232.2	14.5
50°-60°	6812.5	18.8
60°-70°	8372.3	23.1
70°-80°	6562.9	18.1
80°-90°	794.2	2.2
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°	36171.0	100.0
0°-180°	36171.0	100.0

Coefficient of Utilization



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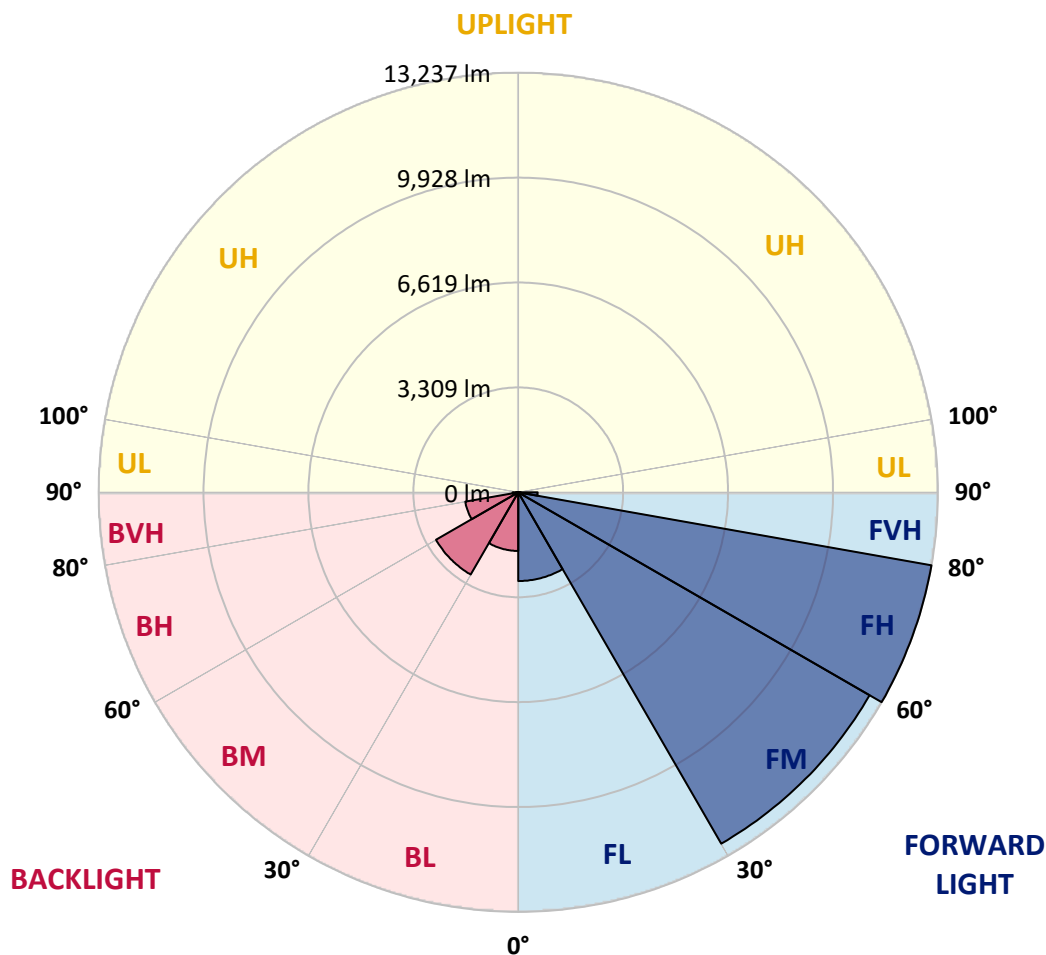
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2798.6	7.7			
FM	(30°-60°)	12798.0	35.4			
FH	(60°-80°)	13237.4	36.6			G5
FVH	(80°-90°)	614.0	1.7			G4/750
BL	(0°-30°)	1849.8	5.1	B3/2500		
BM	(30°-60°)	2995.2	8.3	B3/5000		
BH	(60°-80°)	1697.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	180.2	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8
2.5°	6172.1	6157.4	6175.8	6201.4	6229.5	6267.4	6289.4	6299.2	6337.0	6351.7	6383.5
5°	5886.2	5878.9	5909.4	5953.4	6015.7	6103.7	6174.5	6188.0	6288.2	6359.0	6423.8
7.5°	5678.5	5678.5	5714.0	5766.5	5836.1	5954.6	6054.8	6073.1	6243.0	6395.7	6515.4
10°	5513.6	5519.7	5561.2	5623.5	5705.4	5831.2	5964.4	5985.2	6230.7	6481.2	6671.8
12.5°	5403.6	5418.3	5456.2	5512.4	5613.8	5766.5	5935.1	5963.2	6256.4	6603.4	6859.9
15°	5473.3	5497.7	5501.4	5524.6	5580.8	5746.9	5952.2	5981.5	6311.4	6728.0	7073.7
17.5°	5778.7	5787.3	5749.4	5700.5	5673.6	5779.9	6003.5	6034.0	6377.3	6851.4	7279.0
20°	6243.0	6238.1	6156.2	6024.3	5887.4	5904.5	6087.8	6119.6	6466.5	6960.1	7484.2
22.5°	6829.4	6812.3	6686.4	6443.3	6210.0	6112.2	6235.6	6262.5	6600.9	7115.3	7704.1
25°	7540.4	7502.5	7336.4	7010.2	6666.9	6415.2	6458.0	6483.6	6796.4	7288.7	7905.7
27.5°	8290.5	8252.7	8041.3	7646.7	7189.8	6797.6	6764.6	6786.6	7018.7	7417.0	8054.8
30°	9074.9	9034.6	8841.5	8399.3	7744.4	7193.4	7050.5	7059.1	7175.1	7486.7	8176.9
32.5°	9862.9	9825.0	9608.8	9095.7	8346.7	7618.6	7257.0	7246.0	7269.2	7558.7	8315.0
35°	10661.9	10676.6	10423.7	9855.6	9013.8	8091.4	7501.3	7478.1	7426.8	7706.6	8510.5
37.5°	11517.1	11507.3	11179.9	10586.1	9711.4	8604.5	7852.0	7848.3	7671.1	7986.3	8817.1
40°	12088.9	12095.0	11895.8	11333.8	10416.3	9172.6	8301.5	8293.0	8060.9	8405.4	9219.0
42.5°	12312.4	12352.7	12404.1	12047.3	11154.2	9831.1	8837.9	8825.7	8604.5	9006.5	9691.9
45°	12328.3	12408.9	12726.6	12681.4	11901.9	10584.9	9523.3	9489.0	9330.2	9805.5	10256.3
47.5°	12191.5	12274.6	12802.3	13058.9	12570.2	11380.3	10324.7	10297.8	10161.0	10804.8	10867.1
50°	11892.2	11971.6	12646.0	13243.4	13120.0	12145.1	11248.3	11177.5	11104.2	11959.4	11566.0
52.5°	11331.4	11484.1	12437.0	13287.4	13448.6	12824.3	12219.6	12173.1	12213.5	13177.4	12266.0
55°	10003.4	10174.4	11898.3	13250.7	13691.7	13394.9	13190.8	13188.4	13397.3	14455.3	13017.4
57.5°	9259.4	9380.3	10801.2	13188.4	13980.1	13961.7	14152.3	14175.5	14582.4	15846.8	13804.1
60°	8839.1	8966.2	10245.3	12957.5	14427.2	14694.8	15133.4	15179.8	15787.0	17387.4	14751.0
62.5°	8456.7	8596.0	9900.8	12487.1	14953.8	15743.0	16308.6	16350.2	17062.4	18970.8	15666.0
65°	7803.1	7960.7	9396.2	12178.0	15432.7	17110.1	17802.8	17830.9	18527.3	20629.8	16366.1
67.5°	6879.5	7023.6	8444.5	11495.1	15787.0	18770.4	19789.3	19805.2	19979.9	21801.5	16724.0
70°	5800.7	5855.7	7088.4	10085.2	15367.9	20323.2	21966.4	21970.1	21304.2	22551.6	16665.4
72.5°	4075.6	4205.1	5145.9	7634.5	13206.7	20133.8	23096.5	23138.0	21920.0	22172.9	15333.7
75°	2499.6	2636.5	3227.8	4626.6	8378.5	15834.6	21339.7	21628.0	20765.5	19769.8	12526.2
77.5°	1671.3	1722.6	2106.2	2697.5	3795.9	9110.3	16406.4	16948.8	17250.6	14417.4	8010.8
80°	932.2	1029.9	1396.4	1676.2	1688.4	3619.9	9837.2	9964.3	9597.8	5740.8	2471.5
82.5°	493.6	547.3	932.2	984.7	921.2	1211.9	3666.4	3670.0	3066.5	1539.4	734.2
85°	382.4	427.6	639.0	601.1	470.4	537.6	1209.5	1275.5	1043.3	630.4	239.5
87.5°	190.6	237.0	433.7	381.2	184.5	153.9	432.5	461.8	411.7	246.8	86.7
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°	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8	6379.8
2.5°	6395.7	6406.7	6420.1	6405.4	6400.6	6381.0	6348.0	6340.7	6323.6	6324.8	6334.6
5°	6451.9	6470.2	6462.9	6406.7	6339.5	6245.4	6147.7	6064.6	6009.6	6005.9	6002.3
7.5°	6559.4	6571.6	6514.2	6354.1	6166.0	5948.5	5743.3	5563.7	5454.9	5428.1	5422.0
10°	6728.0	6725.5	6567.9	6245.4	5870.3	5481.8	5152.0	4902.7	4757.4	4714.6	4703.6
12.5°	6916.1	6888.0	6586.3	6047.5	5452.5	4913.7	4495.9	4218.6	4067.1	4018.2	4006.0
15°	7110.4	7040.7	6541.1	5751.8	4939.4	4301.7	3863.1	3606.5	3524.6	3497.8	3492.9
17.5°	7291.2	7156.8	6411.6	5351.1	4354.2	3692.0	3349.9	3247.3	3266.9	3302.3	3303.5
20°	7468.3	7235.0	6203.9	4845.3	3737.2	3189.9	3073.8	3149.6	3242.4	3314.5	3324.3
22.5°	7643.0	7290.0	5936.3	4261.3	3185.0	2907.7	2989.5	3127.6	3233.9	3312.1	3325.5
25°	7789.6	7303.4	5567.3	3638.3	2801.4	2801.4	2949.2	3079.9	3185.0	3262.0	3275.4
27.5°	7843.4	7213.0	5046.9	3061.6	2608.4	2752.5	2893.0	3001.7	3090.9	3172.8	3187.4
30°	7864.2	7045.6	4445.8	2598.6	2528.9	2700.0	2817.3	2910.1	2994.4	3071.4	3084.8
32.5°	7867.8	6844.0	3808.1	2335.9	2474.0	2645.0	2723.2	2805.1	2895.5	2926.0	2930.9
35°	7891.0	6605.8	3136.1	2201.5	2422.7	2593.7	2656.0	2714.6	2568.0	2579.0	2588.8
37.5°	7958.2	6370.0	2574.1	2125.8	2389.7	2566.8	2641.3	2428.8	2313.9	2287.0	2283.4
40°	8084.1	6118.3	2157.5	2064.7	2377.5	2580.3	2547.3	2267.5	2069.6	1921.8	1899.8
42.5°	8258.8	5847.1	1891.2	2024.4	2386.0	2645.0	2416.5	2112.3	1783.7	1688.4	1676.2
45°	8455.5	5562.5	1747.0	1996.3	2415.3	2695.1	2389.7	1905.9	1650.5	1578.5	1572.3
47.5°	8646.1	5214.3	1672.5	1984.1	2455.6	2654.8	2276.1	1842.3	1587.0	1549.1	1552.8
50°	8864.8	4900.3	1627.3	1970.6	2491.1	2629.1	2147.8	1809.4	1562.6	1609.0	1657.9
52.5°	9049.2	4575.3	1587.0	1943.7	2504.5	2583.9	2114.8	1815.5	1562.6	1651.8	1698.2
55°	9267.9	4329.8	1540.6	1887.5	2478.9	2455.6	2091.6	1852.1	1580.9	1524.7	1529.6
57.5°	9550.1	4249.1	1489.3	1799.6	2393.3	2268.7	2080.6	1887.5	1569.9	1534.5	1546.7
60°	9941.1	4334.6	1468.5	1684.7	2260.2	2122.1	2081.8	1869.2	1492.9	1431.8	1433.1
62.5°	10313.7	4429.9	1467.3	1612.7	2096.5	1991.4	2053.7	1809.4	1453.8	1418.4	1431.8
65°	10435.9	4333.4	1408.6	1532.0	1912.0	1835.0	2002.4	1745.8	1424.5	1370.8	1368.3
67.5°	10272.2	4034.1	1290.1	1401.3	1700.6	1653.0	1935.2	1670.1	1378.1	1334.1	1326.8
70°	9785.9	3365.8	1143.5	1229.0	1459.9	1447.7	1828.9	1582.1	1315.8	1277.9	1246.1
72.5°	8477.5	2398.2	963.9	1022.6	1188.7	1227.8	1682.3	1467.3	1227.8	1146.0	1097.1
75°	6962.5	1775.1	791.7	803.9	902.8	1009.1	1480.7	1332.9	1124.0	984.7	946.8
77.5°	4263.8	1086.1	630.4	635.3	647.5	805.1	1219.3	1182.6	992.0	821.0	794.1
80°	1380.5	592.5	455.7	478.9	442.3	590.1	943.2	1006.7	851.5	686.6	657.3
82.5°	525.3	345.7	307.9	323.8	306.7	395.8	687.8	806.3	697.6	564.4	459.4
85°	254.1	195.5	182.0	204.0	189.4	202.8	439.8	593.8	529.0	367.7	342.1
87.5°	90.4	86.7	69.6	94.1	80.6	72.1	134.4	299.3	349.4	252.9	226.0
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)