

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: P320880

Luminaire Tested: **GAN-SA6B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29324 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 249
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

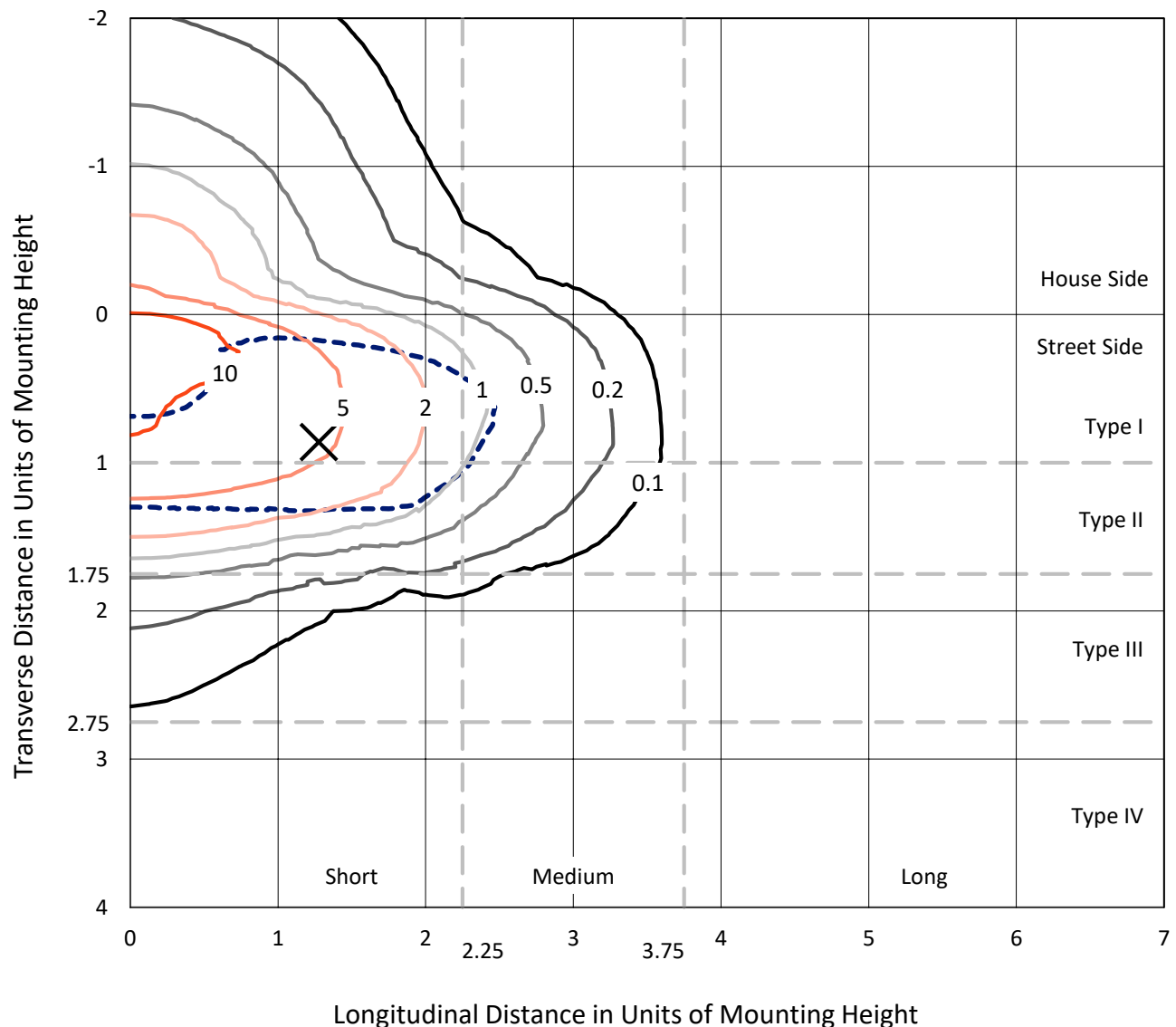


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Iso-Footcandle Lines of Horizontal Illumination

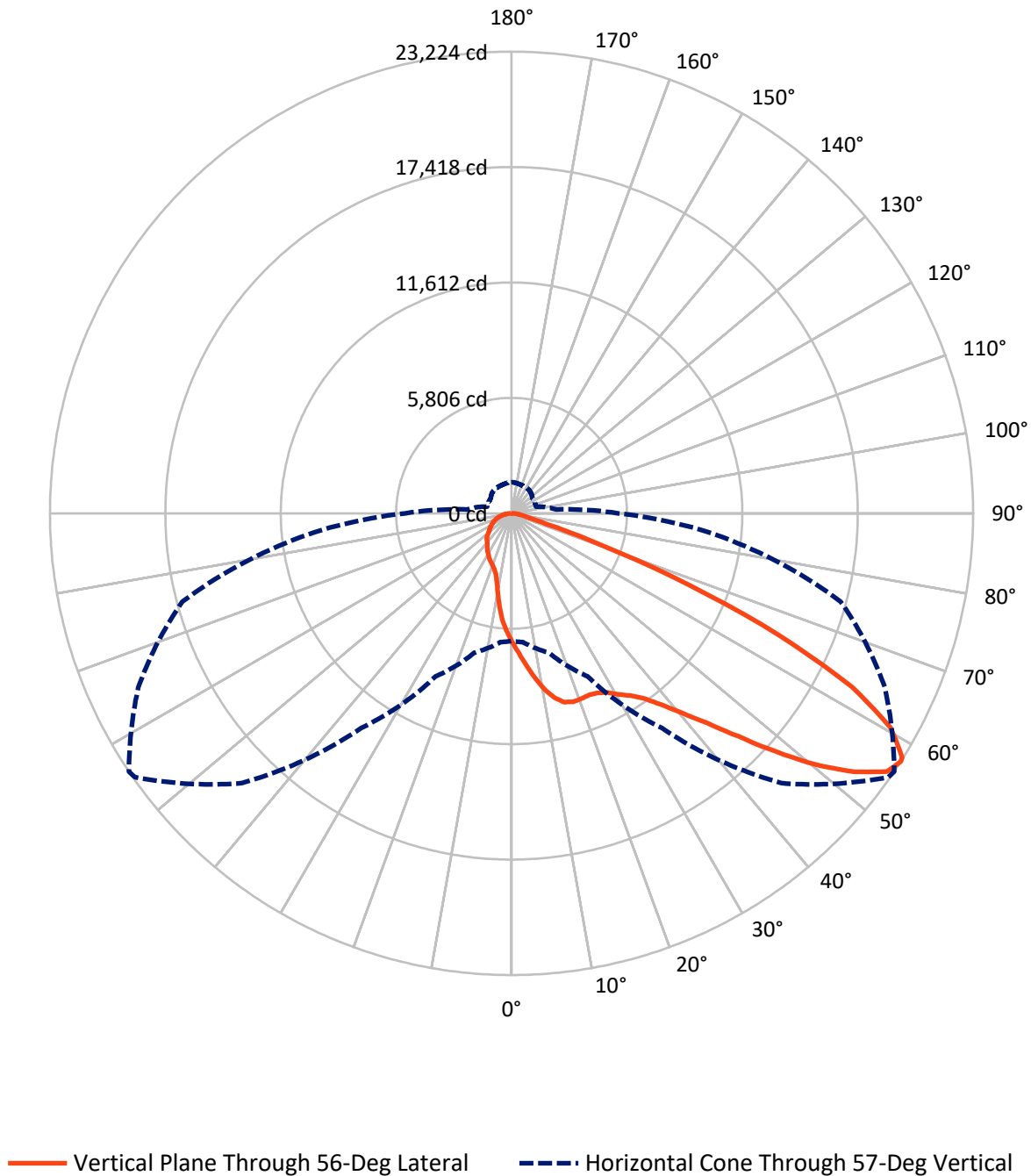
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5054.8	0.0	5054.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	24269.2	0.0	24269.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	29324.0	0.0	29324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.3	2.1
10°-20°	1756.6	6.0
20°-30°	2861.1	9.8
30°-40°	4277.0	14.6
40°-50°	6487.4	22.1
50°-60°	7271.2	24.8
60°-70°	4294.7	14.6
70°-80°	1407.1	4.8
80°-90°	347.6	1.2
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°	29324.0	100.0
0°-180°	29324.0	100.0

Coefficient of Utilization



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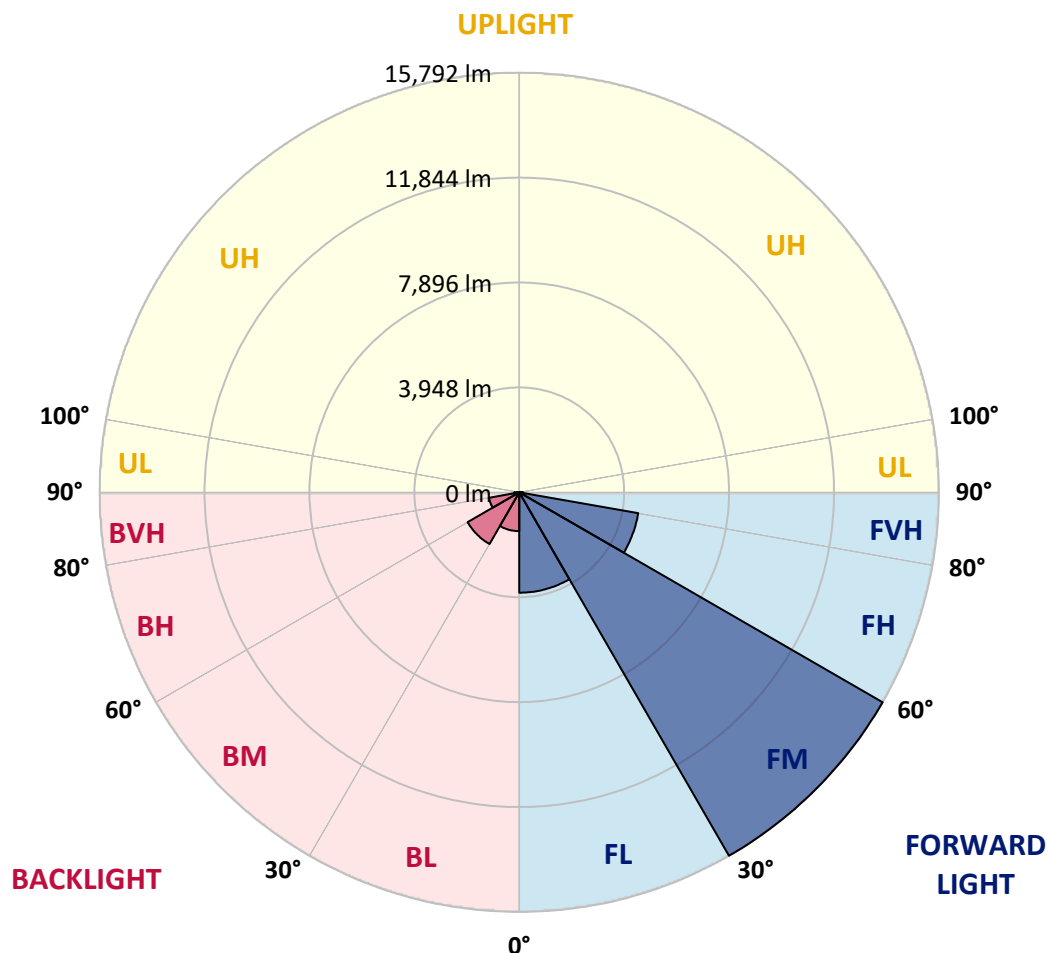
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3777.4	12.9			
FM	(30°-60°)	15791.9	53.9			
FH	(60°-80°)	4546.8	15.5			G2/5000
FVH	(80°-90°)	153.1	0.5			G2/225
BL	(0°-30°)	1461.6	5.0	B3/2500		
BM	(30°-60°)	2243.7	7.7	B2/2500		
BH	(60°-80°)	1155.0	3.9	B3/2500		G3/2500
BVH	(80°-90°)	194.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1
2.5°	7468.5	7537.0	7506.8	7402.0	7321.4	7207.5	7080.5	7042.2	6908.2	6758.0	6577.7
5°	8650.6	8616.4	8567.0	8403.7	8231.4	8030.8	7712.4	7662.0	7363.7	7024.1	6665.3
7.5°	9323.8	9320.8	9291.6	9195.8	9038.6	8776.6	8392.6	8333.2	7882.7	7336.5	6780.2
10°	9226.1	9219.0	9267.4	9367.1	9414.5	9360.1	9036.6	8977.1	8423.9	7682.2	6913.2
12.5°	8670.8	8674.8	8752.4	8962.0	9247.2	9589.9	9537.5	9508.2	8985.2	8073.2	7074.5
15°	8238.4	8247.5	8309.0	8491.4	8828.0	9449.8	9841.8	9851.9	9528.4	8504.5	7262.9
17.5°	8049.0	8068.1	8096.4	8224.3	8532.7	9170.6	9914.4	9968.8	10004.0	8951.9	7444.3
20°	8109.5	8127.6	8135.7	8217.3	8470.2	9001.3	9864.0	9961.7	10368.9	9373.2	7625.7
22.5°	8380.5	8391.6	8396.7	8417.8	8614.3	9049.7	9830.7	9933.5	10632.9	9751.1	7762.8
25°	8830.0	8821.9	8789.7	8762.5	8894.5	9241.2	9907.3	10005.1	10847.5	10093.7	7852.5
27.5°	9368.1	9358.1	9295.6	9221.0	9296.6	9539.5	10128.0	10205.6	11040.0	10414.2	7897.8
30°	10014.1	9987.9	9870.0	9781.3	9810.6	9986.9	10491.8	10562.3	11337.3	10778.0	7942.2
32.5°	10760.9	10732.7	10562.3	10415.2	10415.2	10562.3	10866.7	10925.1	11589.3	11189.2	8013.7
35°	11696.1	11660.8	11439.1	11192.2	11122.7	11197.2	11377.6	11418.9	12042.7	11707.2	8143.7
37.5°	12798.6	12751.2	12464.0	12133.4	11981.3	11977.2	12107.2	12191.9	12767.3	12387.4	8364.4
40°	13904.1	13870.8	13619.9	13359.9	13061.6	12965.9	13166.4	13192.6	13714.6	13231.9	8646.6
42.5°	14758.7	14752.6	14706.3	14740.5	14435.2	14241.7	14398.9	14420.1	14871.5	14145.9	8946.9
45°	15210.1	15220.2	15444.9	15942.8	16055.6	15914.6	15992.2	15998.2	16193.7	15068.0	9222.0
47.5°	14848.4	14900.8	15469.1	16582.7	17506.8	17975.4	17846.4	17921.0	17475.6	15860.1	9437.7
50°	13438.5	13503.0	14470.4	16297.5	18184.0	19969.8	19902.3	19885.1	18509.5	16440.6	9554.6
52.5°	11692.0	11742.4	12540.6	14815.1	17687.2	21072.3	21692.1	21603.4	19428.6	16875.0	9576.8
55°	9032.6	9111.2	9876.1	11856.3	15677.7	20651.0	23008.2	22928.6	20266.1	17102.7	9550.6
57°	6421.5	6504.1	7263.9	9048.7	13188.6	19192.8	23139.2	23223.9	20718.6	17141.0	9579.8
57.5°	5730.1	5814.8	6567.6	8300.9	12412.6	18665.8	23026.3	23167.4	20800.2	17135.0	9595.9
60°	2885.2	2917.5	3397.2	4633.7	7846.4	15090.2	21554.0	21917.8	20873.8	16838.7	9665.4
62.5°	1793.8	1770.6	1755.5	2134.4	3817.4	10007.1	18515.6	19216.0	19465.9	16121.2	9497.1
65°	1577.1	1533.8	1367.5	1337.3	1686.0	4860.4	13943.4	14815.1	16457.7	14990.4	9096.1
67.5°	1481.4	1439.1	1251.6	1138.8	1139.8	1926.8	8656.7	9638.2	12820.7	13078.7	8149.8
70°	1382.6	1344.4	1169.0	1036.0	970.5	1067.2	3982.7	4727.4	8357.4	10280.2	6811.5
72.5°	1255.7	1229.5	1063.2	926.1	856.6	799.2	1524.7	1800.9	4838.3	6904.2	4730.4
75°	1122.6	1098.5	956.4	825.4	740.7	628.8	858.6	925.1	2457.9	3532.2	2328.9
77.5°	976.5	962.4	850.6	729.6	662.1	521.0	607.7	639.9	1054.1	1514.7	1168.0
80°	777.0	804.2	743.7	650.0	587.5	417.2	430.3	451.5	613.7	739.7	663.1
82.5°	505.9	553.3	582.5	528.1	483.7	328.5	309.4	318.5	400.1	451.5	288.2
85°	210.6	236.8	382.9	345.7	321.5	239.8	207.6	211.6	247.9	257.0	117.9
87.5°	93.7	99.8	168.3	158.2	136.0	82.6	88.7	96.7	132.0	125.0	45.3
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°	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1	6504.1
2.5°	6510.1	6425.5	6280.4	6120.1	5989.1	5884.3	5778.5	5705.9	5621.3	5575.9	5552.8
5°	6515.2	6348.9	6043.5	5730.1	5450.0	5194.0	4950.1	4762.7	4587.3	4492.6	4466.4
7.5°	6536.3	6286.4	5792.6	5276.6	4778.8	4324.3	3973.6	3753.9	3595.7	3525.1	3505.0
10°	6553.5	6212.8	5482.2	4718.3	4041.1	3580.6	3308.5	3185.5	3131.1	3122.0	3113.0
12.5°	6593.8	6137.3	5155.7	4135.9	3467.7	3149.3	3054.5	3046.5	3061.6	3083.7	3083.7
15°	6657.3	6062.7	4782.8	3636.0	3102.9	2991.0	3010.2	3054.5	3095.8	3130.1	3135.1
17.5°	6703.6	5971.0	4381.7	3235.9	2908.4	2938.6	3007.2	3069.6	3112.0	3145.2	3148.2
20°	6736.9	5828.9	3953.4	2930.6	2796.5	2890.3	2975.9	3031.3	3060.6	3093.8	3098.9
22.5°	6719.8	5638.4	3573.5	2711.9	2705.8	2819.7	2901.3	2967.9	2945.7	2913.4	2934.6
25°	6637.1	5376.4	3182.5	2548.6	2610.1	2725.0	2825.8	2781.4	2706.8	2692.7	2700.8
27.5°	6490.0	5041.8	2820.7	2397.5	2499.2	2637.3	2631.3	2586.9	2560.7	2542.6	2553.7
30°	6331.8	4679.0	2504.3	2265.4	2376.3	2490.2	2467.0	2466.0	2439.8	2410.6	2424.7
32.5°	6175.6	4314.2	2253.4	2156.6	2283.6	2298.7	2349.1	2364.2	2312.8	2251.3	2247.3
35°	6039.5	3969.6	2062.9	2057.8	2171.7	2173.7	2247.3	2226.1	2098.2	2034.7	2034.7
37.5°	5937.7	3625.9	1917.8	1969.2	2024.6	2077.0	2114.3	2026.6	2005.4	1970.2	1969.2
40°	5893.4	3323.6	1827.1	1901.6	1920.8	1987.3	1891.6	1925.8	1935.9	1917.8	1917.8
42.5°	5847.0	3060.6	1748.5	1850.2	1847.2	1838.2	1789.8	1834.1	1874.4	1875.4	1872.4
45°	5800.7	2833.8	1678.9	1740.4	1782.7	1685.0	1694.0	1741.4	1797.8	1818.0	1818.0
47.5°	5749.3	2654.4	1615.4	1624.5	1690.0	1624.5	1617.5	1653.7	1720.2	1752.5	1759.6
50°	5636.4	2493.2	1542.9	1522.7	1540.9	1563.0	1569.1	1586.2	1659.8	1711.2	1723.3
52.5°	5480.2	2349.1	1450.2	1429.0	1429.0	1512.6	1540.9	1545.9	1608.4	1669.9	1682.0
55°	5350.2	2257.4	1354.4	1350.4	1346.4	1459.2	1507.6	1515.7	1559.0	1607.4	1613.4
57°	5359.3	2250.3	1280.9	1284.9	1283.9	1404.8	1476.4	1493.5	1515.7	1557.0	1564.0
57.5°	5364.3	2255.4	1264.7	1266.8	1265.7	1389.7	1467.3	1486.4	1503.6	1546.9	1554.0
60°	5439.9	2268.5	1199.2	1177.1	1182.1	1309.1	1415.9	1440.1	1451.2	1508.6	1517.7
62.5°	5328.0	2210.0	1146.8	1093.4	1093.4	1224.4	1344.4	1382.6	1399.8	1477.4	1492.5
65°	5003.5	2045.8	1085.4	998.7	1008.8	1139.8	1258.7	1321.2	1347.4	1444.1	1460.2
67.5°	4502.7	1855.3	1019.9	914.0	924.1	1051.1	1170.0	1237.5	1278.8	1407.8	1420.9
70°	3850.7	1622.5	931.2	824.3	836.4	954.3	1065.2	1141.8	1203.3	1373.6	1377.6
72.5°	2838.9	1330.2	807.2	725.6	738.7	841.5	959.4	1048.1	1130.7	1287.9	1285.9
75°	1688.0	1040.0	670.2	625.8	634.9	730.6	863.7	971.5	1095.4	1254.7	1273.8
77.5°	1023.9	783.0	546.2	524.0	535.1	632.9	795.1	910.0	1080.3	1183.1	1177.1
80°	618.8	559.3	436.4	422.3	433.3	541.2	735.7	863.7	944.3	1010.8	1010.8
82.5°	323.5	341.6	320.5	309.4	324.5	439.4	669.2	753.8	834.4	716.5	669.2
85°	132.0	178.4	194.5	193.5	202.6	304.3	577.4	645.0	538.1	510.9	523.0
87.5°	44.3	75.6	94.7	81.6	85.7	191.5	400.1	311.4	369.8	258.0	244.9
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)