

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: P320879

Luminaire Tested: **GAN-SA5B-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320879
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-SA5B-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24504 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 210
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



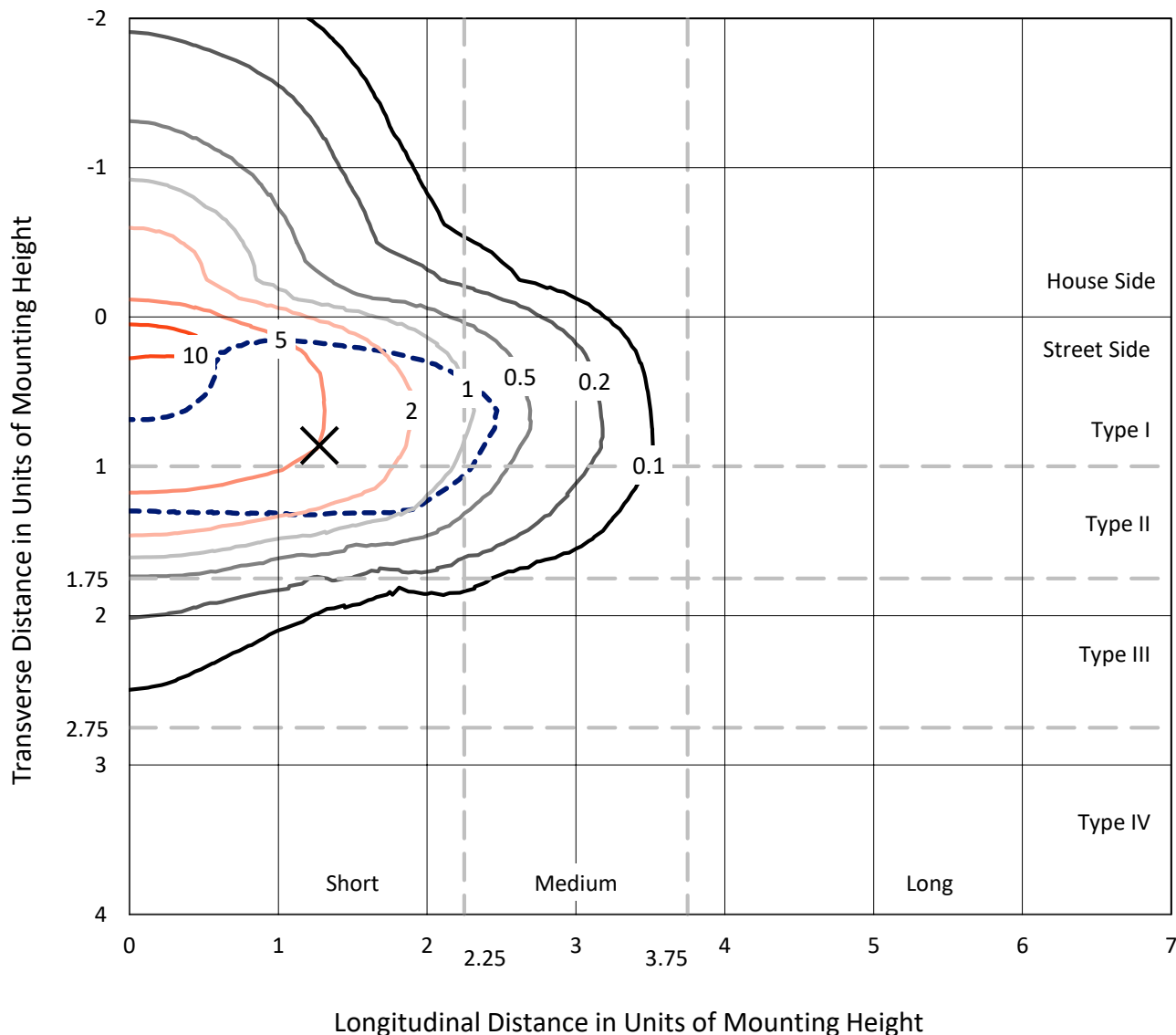
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

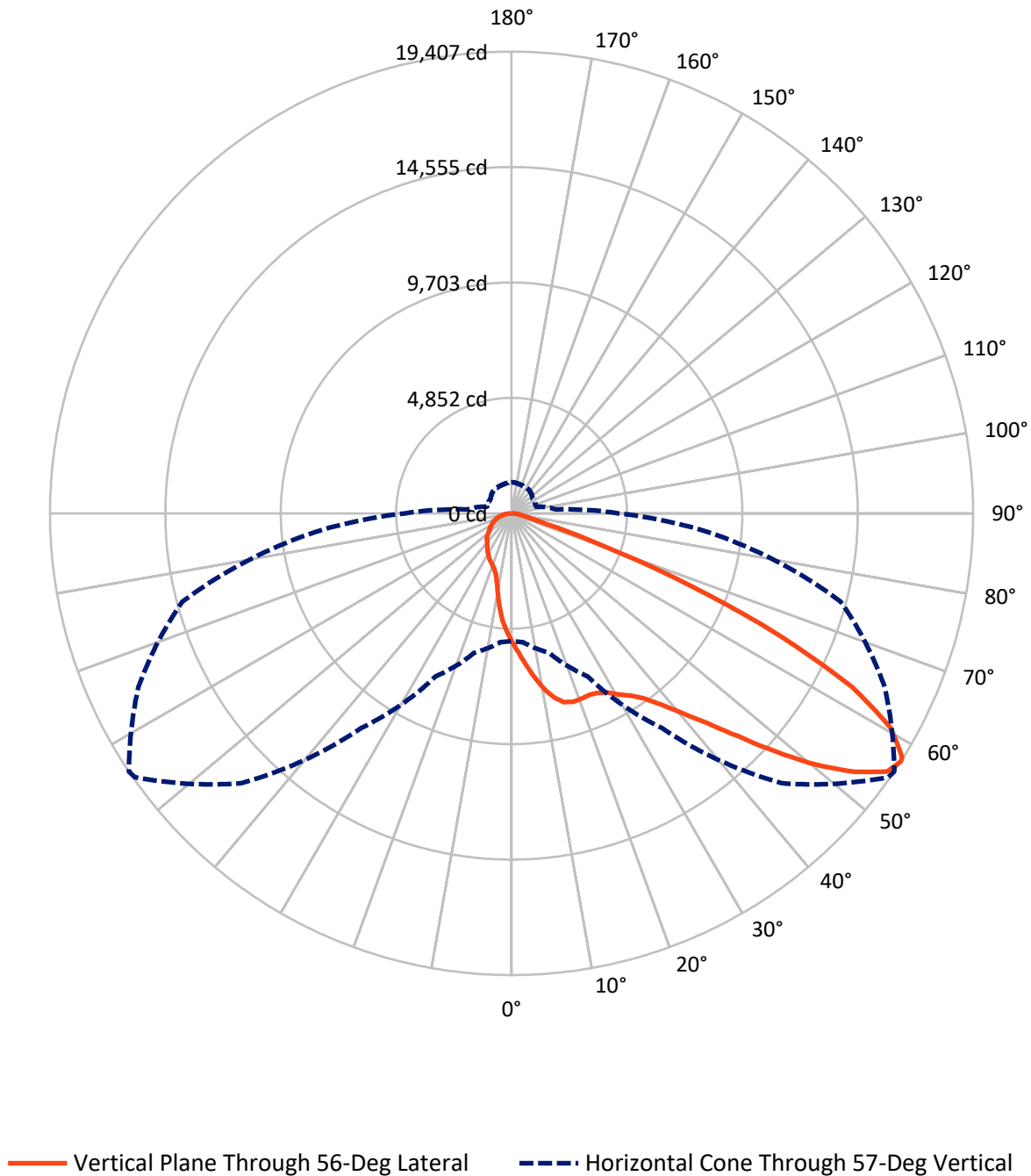


Based on 25 foot mounting height. Maximum calculated value = 12 fc

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	4224.0	0.0	4224.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	20280.0	0.0	20280.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	24504.0	0.0	24504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.2	2.1
10°-20°	1467.8	6.0
20°-30°	2390.8	9.8
30°-40°	3574.0	14.6
40°-50°	5421.0	22.1
50°-60°	6076.0	24.8
60°-70°	3588.7	14.6
70°-80°	1175.8	4.8
80°-90°	290.5	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°	24504.0	100.0
0°-180°	24504.0	100.0

Coefficient of Utilization



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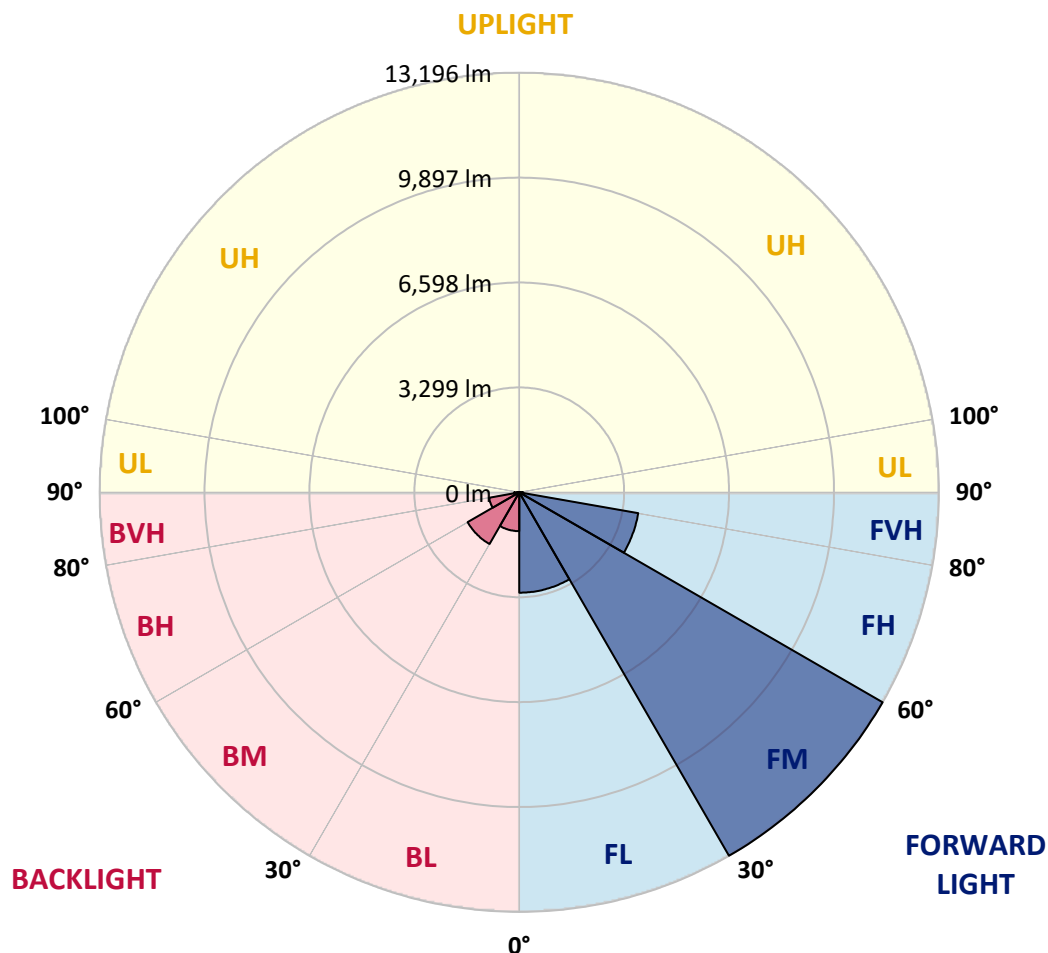
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3156.5	12.9			
FM	(30°-60°)	13196.2	53.9			
FH	(60°-80°)	3799.4	15.5			G2/5000
FVH	(80°-90°)	127.9	0.5			G2/225
BL	(0°-30°)	1221.4	5.0	B3/2500		
BM	(30°-60°)	1874.9	7.7	B2/2500		
BH	(60°-80°)	965.1	3.9	B2/1000		G2/1000
BVH	(80°-90°)	162.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0
2.5°	6240.9	6298.2	6272.9	6185.3	6118.0	6022.8	5916.7	5884.7	5772.7	5647.2	5496.5
5°	7228.7	7200.1	7158.8	7022.4	6878.4	6710.8	6444.7	6402.6	6153.3	5869.5	5569.7
7.5°	7791.2	7788.7	7764.3	7684.3	7552.9	7334.0	7013.1	6963.4	6587.0	6130.6	5665.7
10°	7709.6	7703.7	7744.1	7827.5	7867.0	7821.6	7551.2	7501.6	7039.2	6419.4	5776.9
12.5°	7245.6	7248.9	7313.8	7488.9	7727.2	8013.6	7969.8	7945.4	7508.3	6746.2	5911.6
15°	6884.3	6891.9	6943.2	7095.7	7376.9	7896.5	8224.1	8232.5	7962.2	7106.6	6069.1
17.5°	6726.0	6742.0	6765.6	6872.5	7130.2	7663.2	8284.7	8330.2	8359.7	7480.5	6220.7
20°	6776.5	6791.7	6798.4	6866.6	7078.0	7521.8	8242.6	8324.3	8664.5	7832.5	6372.3
22.5°	7003.0	7012.3	7016.5	7034.2	7198.4	7562.2	8214.8	8300.7	8885.2	8148.3	6486.8
25°	7378.6	7371.9	7344.9	7322.2	7432.5	7722.2	8278.8	8360.5	9064.5	8434.6	6561.8
27.5°	7828.3	7819.9	7767.7	7705.4	7768.5	7971.5	8463.3	8528.1	9225.4	8702.4	6599.7
30°	8368.1	8346.2	8247.7	8173.6	8198.0	8345.4	8767.3	8826.2	9473.8	9006.4	6636.7
32.5°	8992.1	8968.5	8826.2	8703.3	8703.3	8826.2	9080.5	9129.4	9684.3	9350.0	6696.5
35°	9773.6	9744.1	9558.8	9352.5	9294.4	9356.7	9507.5	9542.0	10063.3	9782.8	6805.1
37.5°	10694.9	10655.3	10415.3	10139.1	10011.9	10008.5	10117.2	10187.9	10668.8	10351.3	6989.6
40°	11618.7	11590.9	11381.2	11163.9	10914.7	10834.7	11002.2	11024.1	11460.3	11057.0	7225.3
42.5°	12332.8	12327.7	12289.0	12317.6	12062.5	11900.8	12032.1	12049.8	12427.1	11820.8	7476.3
45°	12710.0	12718.5	12906.3	13322.3	13416.6	13298.7	13363.5	13368.6	13531.9	12591.3	7706.2
47.5°	12407.7	12451.5	12926.5	13857.0	14629.2	15020.8	14913.0	14975.3	14603.1	13253.2	7886.4
50°	11229.6	11283.5	12091.9	13618.7	15195.1	16687.3	16630.9	16616.6	15467.1	13738.3	7984.1
52.5°	9770.2	9812.3	10479.3	12379.9	14780.0	17608.6	18126.5	18052.4	16235.1	14101.2	8002.6
55°	7547.9	7613.6	8252.7	9907.5	13100.8	17256.6	19226.3	19159.8	16934.9	14291.5	7980.7
57°	5366.0	5435.0	6070.0	7561.3	11020.8	16038.1	19335.8	19406.5	17313.0	14323.5	8005.1
57.5°	4788.3	4859.0	5488.1	6936.5	10372.3	15597.7	19241.5	19359.4	17381.3	14318.5	8018.6
60°	2411.0	2437.9	2838.8	3872.0	6556.7	12609.8	18011.2	18315.2	17442.7	14070.9	8076.7
62.5°	1499.0	1479.6	1467.0	1783.6	3189.9	8362.2	15472.2	16057.4	16266.3	13471.3	7936.1
65°	1317.9	1281.7	1142.7	1117.5	1408.9	4061.5	11651.5	12379.9	13752.6	12526.5	7600.9
67.5°	1237.9	1202.5	1045.9	951.6	952.4	1610.1	7233.8	8054.0	10713.4	10929.0	6810.2
70°	1155.4	1123.4	976.9	865.7	811.0	891.8	3328.0	3950.4	6983.7	8590.4	5691.9
72.5°	1049.3	1027.4	888.4	773.9	715.8	667.8	1274.1	1504.9	4043.0	5769.3	3952.9
75°	938.1	917.9	799.2	689.7	619.0	525.5	717.5	773.1	2053.9	2951.6	1946.1
77.5°	816.0	804.2	710.7	609.7	553.3	435.4	507.8	534.7	880.9	1265.7	976.0
80°	649.3	672.0	621.5	543.2	491.0	348.6	359.6	377.3	512.8	618.1	554.1
82.5°	422.7	462.3	486.7	441.3	404.2	274.5	258.5	266.1	334.3	377.3	240.8
85°	176.0	197.9	320.0	288.8	268.6	200.4	173.5	176.8	207.2	214.7	98.5
87.5°	78.3	83.4	140.6	132.2	113.7	69.1	74.1	80.8	110.3	104.4	37.9
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°	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0	5435.0
2.5°	5440.1	5369.3	5248.1	5114.2	5004.7	4917.1	4828.7	4768.1	4697.3	4659.4	4640.1
5°	5444.3	5305.3	5050.2	4788.3	4554.2	4340.3	4136.5	3979.8	3833.3	3754.1	3732.3
7.5°	5462.0	5253.1	4840.5	4409.3	3993.3	3613.5	3320.5	3136.9	3004.7	2945.7	2928.9
10°	5476.3	5191.6	4581.1	3942.8	3376.9	2992.0	2764.7	2661.9	2616.5	2608.9	2601.3
12.5°	5510.0	5128.5	4308.3	3456.0	2897.7	2631.6	2552.5	2545.7	2558.3	2576.9	2576.9
15°	5563.0	5066.2	3996.7	3038.4	2592.9	2499.4	2515.4	2552.5	2587.0	2615.6	2619.8
17.5°	5601.7	4989.5	3661.5	2704.0	2430.3	2455.6	2512.9	2565.1	2600.5	2628.2	2630.8
20°	5629.5	4870.8	3303.6	2448.9	2336.9	2415.2	2486.8	2533.1	2557.5	2585.3	2589.5
22.5°	5615.2	4711.6	2986.1	2266.1	2261.1	2356.2	2424.4	2480.0	2461.5	2434.6	2452.2
25°	5546.2	4492.7	2659.4	2129.7	2181.1	2277.1	2361.3	2324.2	2261.9	2250.1	2256.9
27.5°	5423.2	4213.1	2357.1	2003.4	2088.4	2203.8	2198.8	2161.7	2139.8	2124.7	2133.9
30°	5291.0	3909.9	2092.7	1893.1	1985.7	2080.9	2061.5	2060.7	2038.8	2014.3	2026.1
32.5°	5160.5	3605.1	1883.0	1802.1	1908.2	1920.9	1963.0	1975.6	1932.7	1881.3	1877.9
35°	5046.8	3317.1	1723.8	1719.6	1814.8	1816.4	1877.9	1860.2	1753.3	1700.2	1700.2
37.5°	4961.7	3029.9	1602.5	1645.5	1691.8	1735.6	1766.8	1693.5	1675.8	1646.3	1645.5
40°	4924.7	2777.3	1526.8	1589.1	1605.1	1660.7	1580.6	1609.3	1617.7	1602.5	1602.5
42.5°	4886.0	2557.5	1461.1	1546.1	1543.6	1536.0	1495.6	1532.6	1566.3	1567.2	1564.6
45°	4847.2	2368.0	1403.0	1454.3	1489.7	1408.0	1415.6	1455.2	1502.3	1519.2	1519.2
47.5°	4804.3	2218.1	1349.9	1357.5	1412.2	1357.5	1351.6	1381.9	1437.5	1464.4	1470.3
50°	4709.9	2083.4	1289.3	1272.4	1287.6	1306.1	1311.2	1325.5	1387.0	1429.9	1440.0
52.5°	4579.4	1963.0	1211.8	1194.1	1194.1	1264.0	1287.6	1291.8	1344.0	1395.4	1405.5
55°	4470.8	1886.3	1131.8	1128.4	1125.1	1219.4	1259.8	1266.5	1302.8	1343.2	1348.2
57°	4478.4	1880.4	1070.3	1073.7	1072.9	1173.9	1233.7	1248.0	1266.5	1301.1	1307.0
57.5°	4482.6	1884.7	1056.9	1058.5	1057.7	1161.3	1226.1	1242.1	1256.4	1292.6	1298.5
60°	4545.7	1895.6	1002.1	983.6	987.8	1093.9	1183.2	1203.4	1212.6	1260.6	1268.2
62.5°	4452.3	1846.8	958.3	913.7	913.7	1023.2	1123.4	1155.4	1169.7	1234.5	1247.2
65°	4181.1	1709.5	907.0	834.5	843.0	952.4	1051.8	1104.0	1125.9	1206.8	1220.2
67.5°	3762.6	1550.3	852.2	763.8	772.2	878.3	977.7	1034.1	1068.6	1176.4	1187.4
70°	3217.7	1355.8	778.1	688.8	699.0	797.5	890.1	954.1	1005.5	1147.8	1151.2
72.5°	2372.2	1111.6	674.5	606.3	617.3	703.2	801.7	875.8	944.9	1076.2	1074.5
75°	1410.5	869.1	560.0	523.0	530.5	610.5	721.7	811.8	915.4	1048.4	1064.4
77.5°	855.6	654.3	456.4	437.9	447.2	528.8	664.4	760.4	902.7	988.6	983.6
80°	517.1	467.4	364.6	352.8	362.1	452.2	614.7	721.7	789.1	844.6	844.6
82.5°	270.3	285.5	267.8	258.5	271.2	367.2	559.2	629.9	697.3	598.7	559.2
85°	110.3	149.1	162.5	161.7	169.3	254.3	482.5	539.0	449.7	427.0	437.1
87.5°	37.1	63.2	79.2	68.2	71.6	160.0	334.3	260.2	309.1	215.6	204.6
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)