

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: P318041

Luminaire Tested: **GAN-SA7B-730-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36124 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

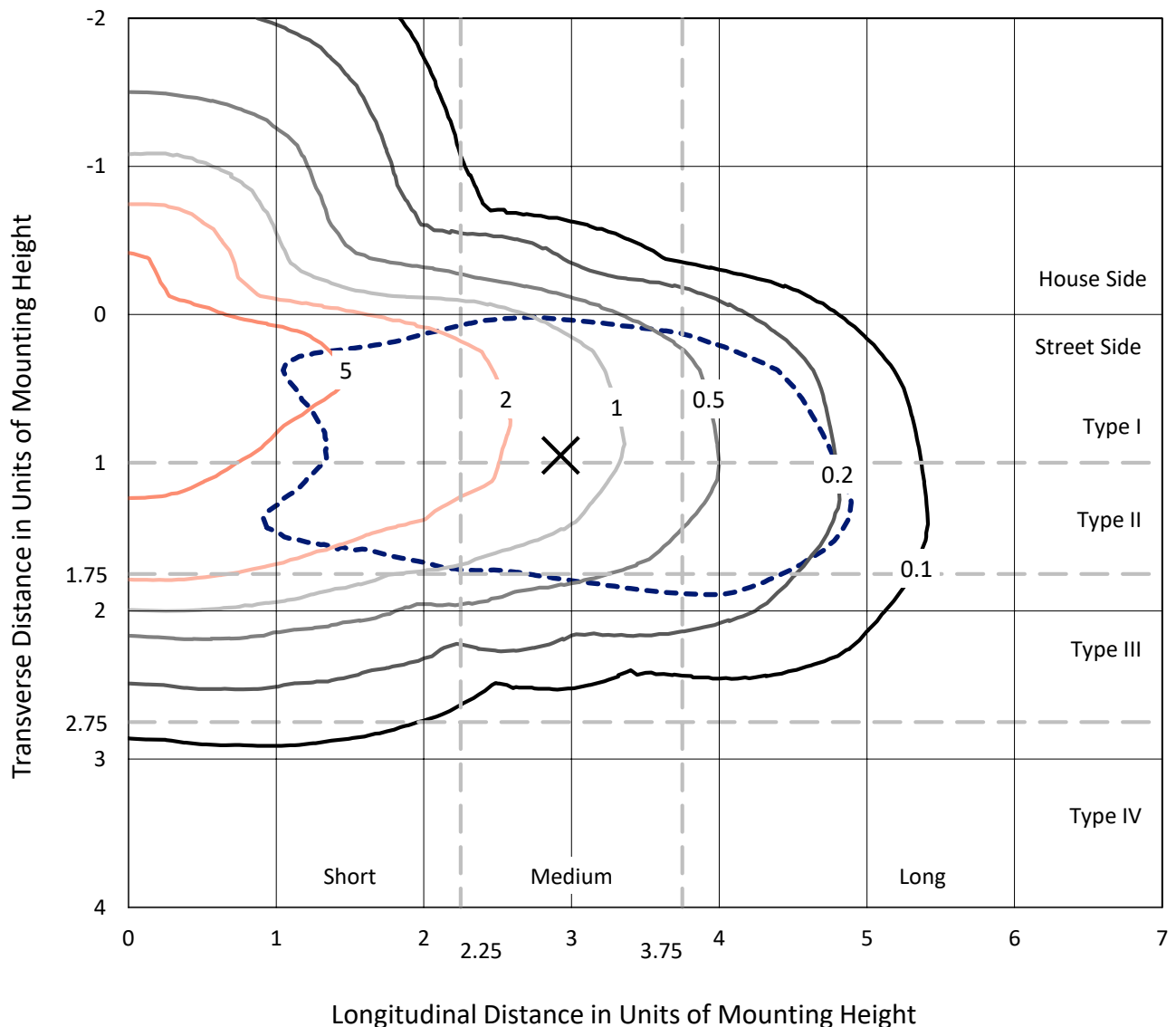
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

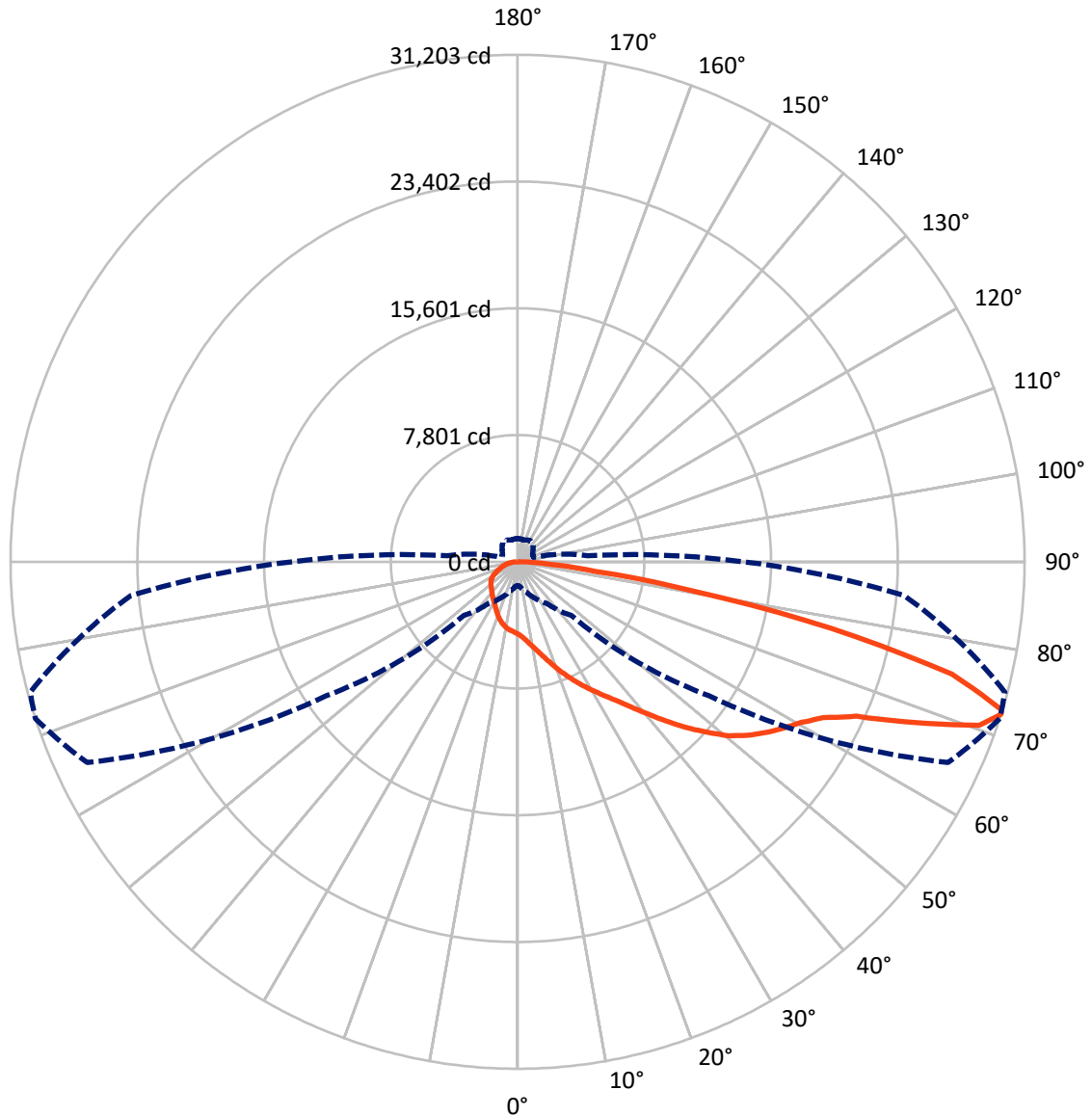
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6701.2	0.0	6701.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	29422.8	0.0	29422.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	36124.0	0.0	36124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.3	1.2
10°-20°	1439.1	4.0
20°-30°	2521.7	7.0
30°-40°	3738.9	10.4
40°-50°	5468.4	15.1
50°-60°	7524.5	20.8
60°-70°	8377.0	23.2
70°-80°	5676.2	15.7
80°-90°	932.9	2.6
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°	36124.0	100.0
0°-180°	36124.0	100.0

Coefficient of Utilization

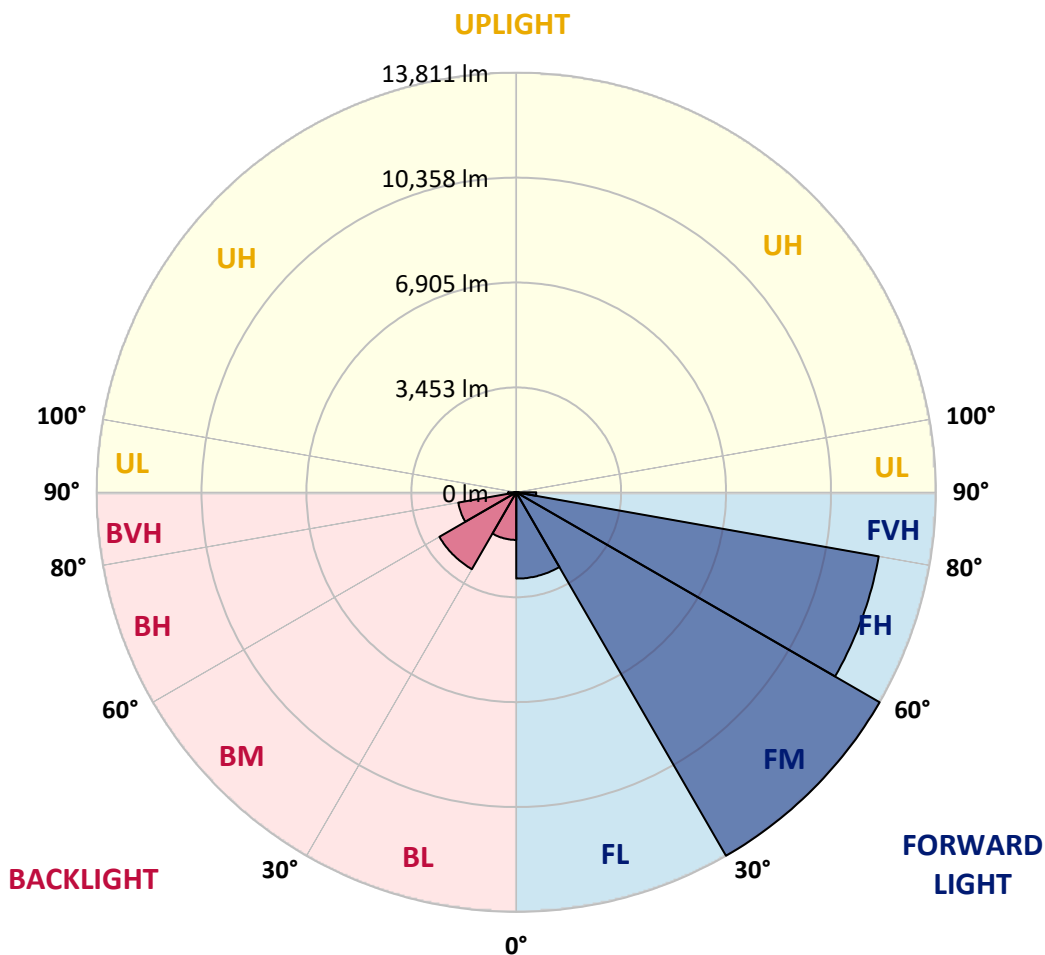


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2839.6	7.9			
FM (30°-60°)	13810.7	38.2			
FH (60°-80°)	12114.5	33.5			G5
FVH (80°-90°)	658.1	1.8			G4/750
BL (0°-30°)	1566.5	4.3	B3/2500		
BM (30°-60°)	2921.1	8.1	B3/5000		
BH (60°-80°)	1938.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	274.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2
2.5°	4909.4	4901.9	4875.8	4875.8	4826.0	4783.8	4704.2	4650.7	4587.2	4564.8	4490.2
5°	5384.5	5387.0	5354.7	5332.3	5258.9	5169.3	5033.8	4910.6	4787.5	4737.7	4584.7
7.5°	5783.8	5778.8	5770.1	5751.5	5683.0	5591.0	5408.2	5225.3	5043.7	4969.1	4705.4
10°	6040.0	6051.2	6058.7	6067.4	6038.8	5972.9	5800.0	5577.3	5339.7	5237.8	4849.7
12.5°	6169.4	6189.3	6224.1	6283.8	6331.1	6323.6	6198.0	5961.7	5679.3	5551.2	5030.0
15°	6245.3	6271.4	6326.1	6433.1	6566.2	6642.0	6608.5	6394.5	6079.8	5921.9	5250.2
17.5°	6292.5	6313.7	6398.2	6541.3	6739.1	6940.6	7028.9	6849.8	6532.6	6352.2	5502.7
20°	6324.9	6341.0	6446.8	6614.7	6870.9	7191.8	7438.1	7393.3	7031.4	6797.5	5766.4
22.5°	6397.0	6410.7	6511.4	6680.6	6964.2	7378.4	7832.4	7899.5	7557.5	7292.6	6048.7
25°	6598.5	6598.5	6683.1	6801.2	7067.4	7540.1	8165.7	8463.0	8094.8	7786.4	6309.9
27.5°	6982.8	6979.1	7010.2	7051.3	7252.8	7704.3	8463.0	8960.5	8652.1	8315.0	6563.7
30°	7438.1	7463.0	7466.7	7446.8	7541.3	7909.5	8737.9	9485.4	9213.0	8849.8	6823.6
32.5°	8023.9	8040.1	8021.4	7955.5	7941.8	8200.6	9007.8	10035.2	9820.0	9408.3	7061.2
35°	8767.7	8736.6	8678.2	8543.8	8415.7	8589.9	9316.3	10585.0	10501.6	10083.7	7388.3
37.5°	9565.0	9566.3	9494.1	9189.4	9012.8	9087.4	9741.7	11208.1	11326.3	10887.2	7807.5
40°	10204.4	10237.9	10282.7	9882.2	9653.3	9756.6	10282.7	11930.8	12301.5	11840.0	8353.5
42.5°	10650.9	10689.5	10816.3	10565.1	10327.5	10519.0	10919.6	12702.0	13396.0	12939.5	8992.9
45°	11123.5	11144.7	11234.2	11126.0	10974.3	11405.9	11637.2	13500.5	14554.0	14111.2	9708.1
47.5°	11621.1	11643.5	11735.5	11663.4	11583.8	12234.3	12386.0	14253.0	15663.5	15398.6	10471.8
50°	12235.5	12250.5	12337.5	12206.9	12231.8	12858.7	13055.2	14943.3	16826.5	16555.3	11238.0
52.5°	13073.9	13077.6	13198.2	13080.1	12963.2	13316.4	13631.1	15593.9	17738.2	17610.1	12004.2
55°	13730.6	13770.4	14165.9	14141.1	14073.9	13731.9	14112.5	16213.3	18551.7	18612.6	12817.6
57.5°	13311.4	13466.9	14267.9	14832.6	15382.4	14765.5	14763.0	16911.1	19307.9	19596.5	13712.0
60°	11658.4	11869.8	13050.2	14302.8	16023.0	16564.0	16113.8	17763.1	20071.6	20571.7	14832.6
62.5°	8326.2	8674.5	10274.0	12274.1	15144.8	17755.6	18862.6	19115.1	21110.2	21701.1	16289.2
65°	4209.1	4472.8	5813.6	8222.9	12100.0	16977.0	21850.3	22075.4	22915.0	23439.9	18531.8
67.5°	2557.3	2656.8	3311.1	4573.6	7418.2	13224.4	22825.5	27009.7	26407.7	26686.3	21729.7
70°	1884.4	1957.8	2365.8	3037.4	4266.3	7760.2	19832.8	30531.0	30135.4	30104.3	24092.9
72°	1467.7	1521.2	1881.9	2454.1	3119.5	4655.6	14374.9	29231.2	31202.6	31045.9	23876.5
72.5°	1391.8	1439.1	1767.5	2309.8	2947.9	4220.3	12924.6	28354.3	31125.5	31054.6	23596.6
75°	1095.8	1129.4	1308.5	1786.1	2307.3	2394.4	7082.4	21973.5	27611.7	28759.8	21223.4
77.5°	906.7	911.7	1006.3	1299.8	1798.6	1692.8	3479.0	15245.6	19771.9	21034.4	15034.1
80°	738.8	745.1	789.8	911.7	1360.7	1252.5	1651.8	8766.5	11070.1	11083.7	7149.5
82.5°	588.3	589.6	639.3	666.7	977.6	895.6	946.6	4115.8	4837.2	4653.2	2569.7
85°	414.2	405.5	624.4	547.3	639.3	574.6	522.4	1629.4	2000.1	1913.0	804.8
87.5°	138.1	143.0	277.4	354.5	373.1	325.9	232.6	624.4	755.0	748.8	255.0
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°	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2	4444.2
2.5°	4466.6	4426.8	4368.3	4303.6	4252.6	4200.4	4161.8	4141.9	4119.6	4100.9	4123.3
5°	4513.8	4439.2	4314.8	4192.9	4103.4	4023.8	3966.6	3936.7	3909.3	3890.7	3893.2
7.5°	4591.0	4470.3	4261.4	4083.5	3959.1	3873.3	3814.8	3794.9	3777.5	3772.5	3778.7
10°	4673.1	4495.2	4190.5	3954.1	3812.3	3741.4	3715.3	3729.0	3741.4	3752.6	3765.1
12.5°	4766.3	4517.6	4087.2	3802.4	3681.7	3654.4	3680.5	3740.2	3783.7	3809.8	3826.0
15°	4888.2	4537.5	3967.8	3650.6	3569.8	3600.9	3689.2	3792.4	3868.3	3916.8	3924.3
17.5°	5000.2	4536.2	3814.8	3497.6	3479.0	3569.8	3702.9	3848.4	3950.4	4018.8	4032.5
20°	5115.9	4502.7	3637.0	3348.4	3386.9	3536.2	3709.1	3884.5	4007.6	4087.2	4105.9
22.5°	5224.1	4444.2	3441.7	3212.8	3309.8	3491.4	3685.5	3863.3	3986.5	4051.1	4071.0
25°	5297.5	4342.2	3243.9	3098.4	3241.4	3436.7	3608.3	3751.4	3843.4	3875.8	3880.7
27.5°	5334.8	4209.1	3057.3	2998.9	3170.5	3347.1	3465.3	3536.2	3562.3	3559.8	3554.9
30°	5339.7	4033.7	2896.9	2918.0	3088.4	3215.3	3271.3	3257.6	3224.0	3166.8	3171.8
32.5°	5323.6	3836.0	2762.5	2840.9	2983.9	3054.8	3057.3	2991.4	2901.8	2811.0	2786.2
35°	5328.6	3641.9	2644.4	2753.8	2857.1	2888.2	2859.6	2762.5	2640.6	2523.7	2498.8
37.5°	5383.3	3472.8	2542.4	2653.1	2716.5	2724.0	2682.9	2580.9	2491.4	2377.0	2367.0
40°	5513.9	3352.1	2445.4	2539.9	2576.0	2579.7	2521.2	2449.1	2456.6	2395.6	2394.4
42.5°	5749.0	3299.9	2359.5	2421.7	2444.1	2451.6	2406.8	2360.8	2425.5	2385.7	2372.0
45°	6052.5	3312.3	2287.4	2306.1	2347.1	2381.9	2354.6	2298.6	2323.5	2150.6	2093.4
47.5°	6403.2	3391.9	2230.2	2206.5	2277.4	2343.4	2301.1	2216.5	2128.2	1956.5	1924.2
50°	6813.7	3515.1	2177.9	2108.3	2201.6	2291.1	2248.8	2128.2	1995.1	1911.8	1900.6
52.5°	7241.6	3665.6	2125.7	2000.1	2105.8	2251.3	2230.2	2108.3	1944.1	1862.0	1847.1
55°	7726.7	3817.3	2059.8	1874.4	2002.6	2232.7	2221.5	2036.1	1905.5	1859.5	1848.3
57.5°	8329.9	3990.2	1972.7	1743.8	1905.5	2165.5	2130.7	1992.6	1865.7	1830.9	1827.2
60°	9116.0	4245.2	1847.1	1604.5	1787.4	2062.3	2054.8	1929.2	1802.3	1777.4	1772.5
62.5°	10295.2	4666.8	1674.2	1465.2	1655.5	1886.9	1955.3	1843.4	1735.1	1733.9	1736.4
65°	12123.6	5301.2	1486.4	1343.3	1522.4	1738.9	1839.6	1755.0	1666.7	1691.6	1695.3
67.5°	14243.1	5827.3	1302.3	1223.9	1386.9	1598.3	1735.1	1666.7	1575.9	1640.6	1641.9
70°	14948.3	5357.2	1140.6	1105.8	1246.3	1462.7	1622.0	1569.7	1477.7	1542.3	1536.1
72°	13911.0	4324.8	1036.1	1016.2	1140.6	1350.8	1521.2	1478.9	1388.1	1431.6	1415.5
72.5°	13583.8	4123.3	1010.0	993.8	1112.0	1322.2	1495.1	1456.5	1365.7	1403.0	1388.1
75°	12117.4	3581.0	868.2	871.9	970.2	1182.9	1348.3	1335.9	1242.6	1246.3	1241.3
77.5°	8788.9	2625.7	731.4	756.2	825.9	1039.8	1200.3	1192.8	1090.8	1072.2	1068.4
80°	4078.5	1339.6	595.8	607.0	679.1	869.4	1023.7	1013.7	931.6	908.0	894.3
82.5°	1396.8	636.8	447.8	455.2	526.1	700.3	888.1	881.9	813.5	767.4	738.8
85°	498.8	317.2	313.4	306.0	375.6	551.0	773.7	740.1	639.3	544.8	542.3
87.5°	161.7	135.6	161.7	160.5	218.9	373.1	562.2	478.9	463.9	385.6	378.1
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)