

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: P319004

Luminaire Tested: **GAN-SA0B-730-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319004  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0B-730-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51152 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

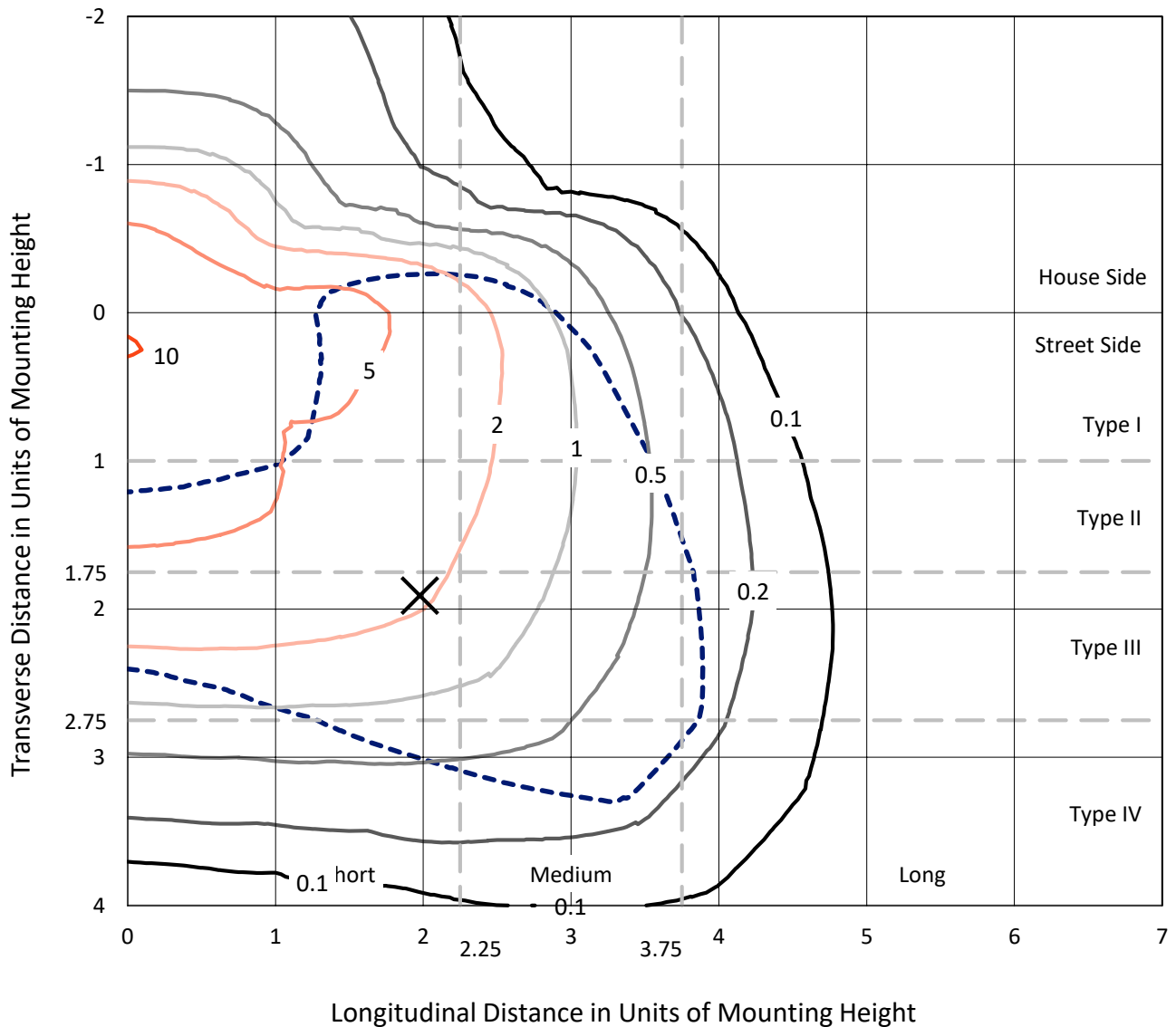
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

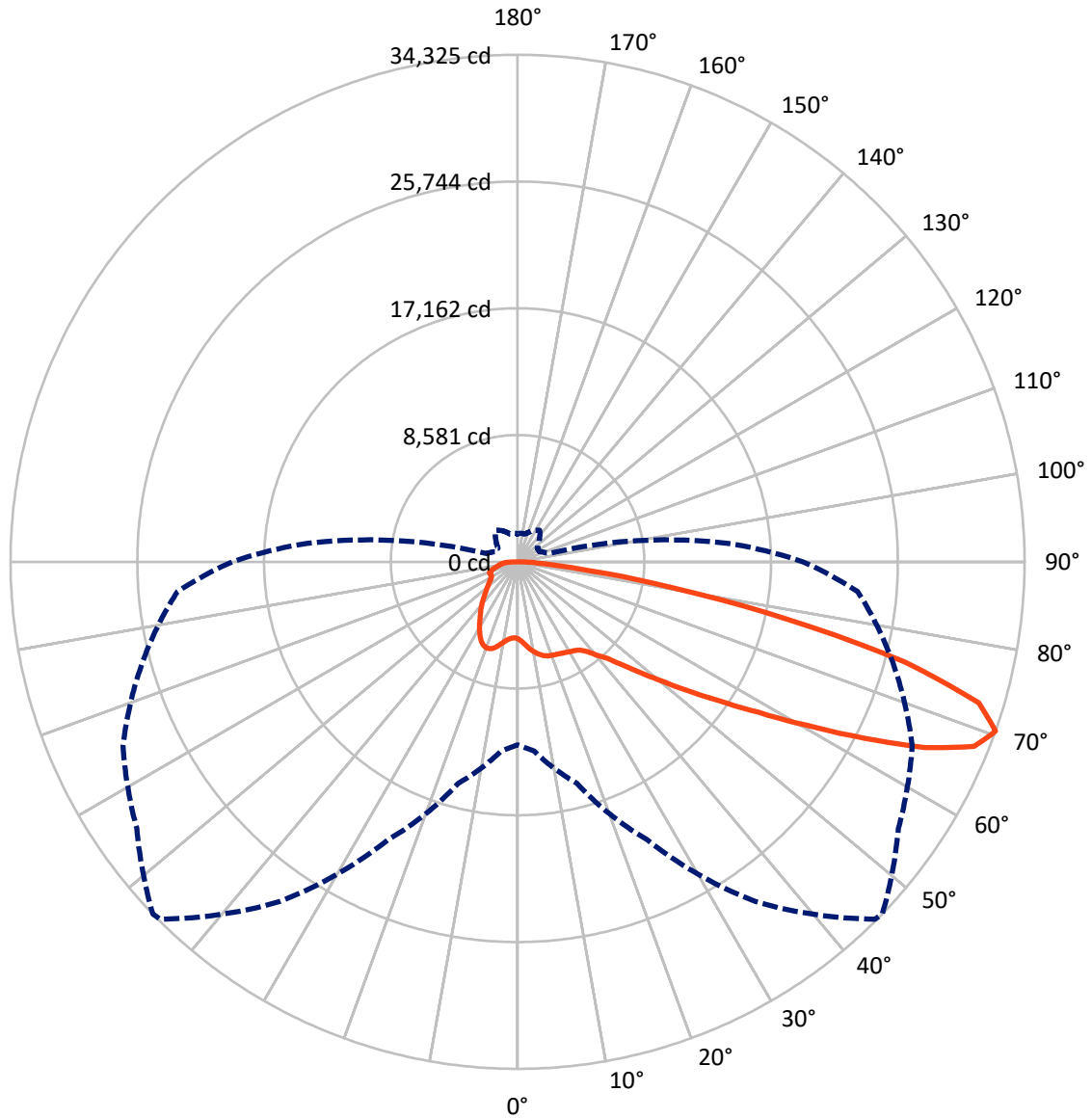
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11723.9	0.0	11723.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	39428.1	0.0	39428.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	51152.0	0.0	51152.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.3	1.0
10°-20°	1770.0	3.5
20°-30°	2951.3	5.8
30°-40°	4188.0	8.2
40°-50°	6160.4	12.0
50°-60°	10432.6	20.4
60°-70°	14808.9	29.0
70°-80°	8996.5	17.6
80°-90°	1312.9	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°	51152.0	100.0
0°-180°	51152.0	100.0

**Coefficient of Utilization**

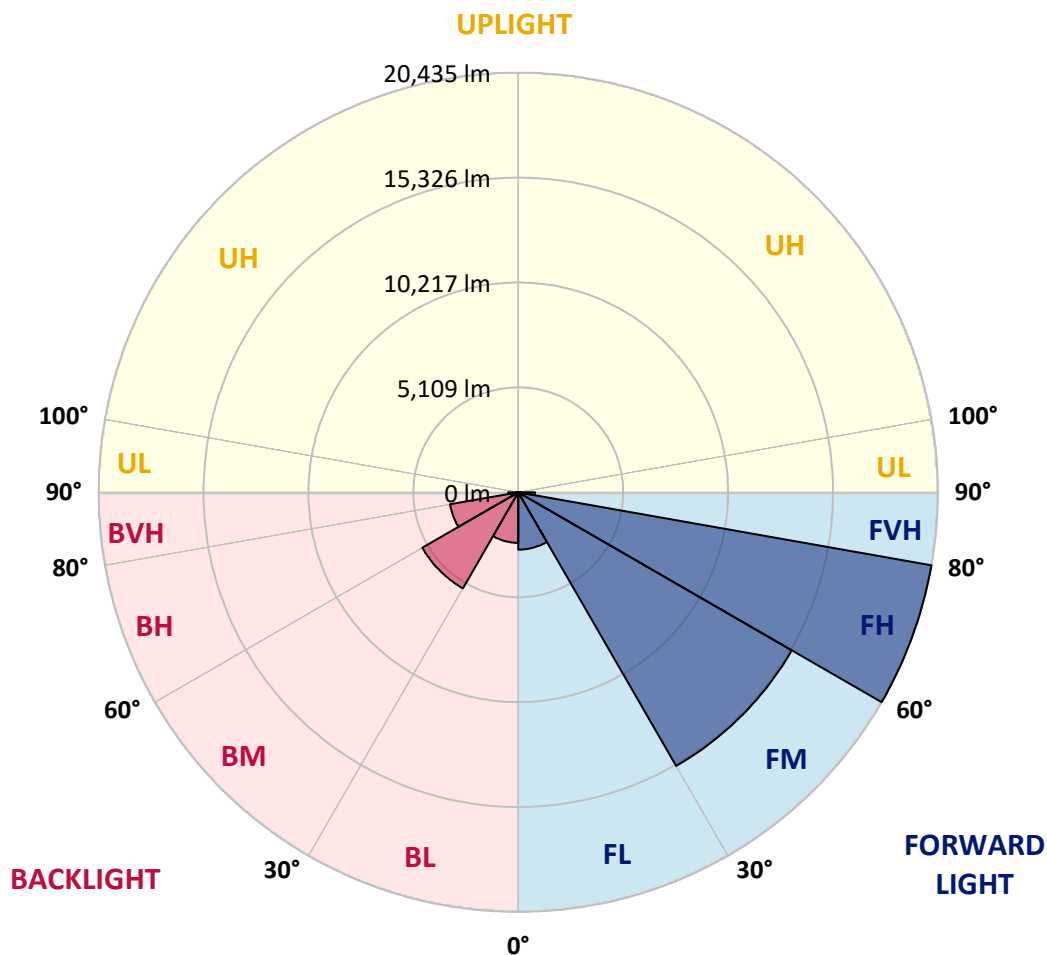


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2791.1	5.5			
FM (30°-60°)	15384.2	30.1			
FH (60°-80°)	20434.9	39.9			G5
FVH (80°-90°)	817.8	1.6			G5
BL (0°-30°)	2461.5	4.8	B3/2500		
BM (30°-60°)	5396.8	10.6	B4/8500		
BH (60°-80°)	3370.5	6.6	B4/5000		G4/5000
BVH (80°-90°)	495.1	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4
2.5°	5472.2	5475.7	5482.7	5465.2	5416.2	5402.2	5396.9	5346.2	5312.9	5263.9	5221.9
5°	5909.9	5913.4	5902.9	5853.8	5745.3	5664.8	5657.8	5542.2	5437.2	5325.2	5241.1
7.5°	6366.8	6372.0	6338.7	6246.0	6093.7	5953.6	5944.9	5787.3	5628.0	5458.2	5332.2
10°	6771.1	6750.1	6695.9	6566.3	6386.0	6214.5	6207.5	6042.9	5859.1	5654.3	5486.2
12.5°	7040.7	7023.2	6953.2	6795.6	6597.8	6440.3	6426.3	6274.0	6095.4	5871.3	5670.0
15°	7189.5	7201.8	7107.2	6928.7	6736.1	6603.1	6590.8	6482.3	6323.0	6097.2	5866.1
17.5°	7208.8	7219.3	7128.2	6951.4	6793.9	6702.9	6697.6	6625.8	6510.3	6293.2	6051.7
20°	7096.7	7103.7	7028.5	6883.2	6779.9	6751.9	6750.1	6718.6	6632.8	6440.3	6205.7
22.5°	6933.9	6939.2	6884.9	6779.9	6744.9	6788.6	6800.9	6788.6	6727.4	6547.1	6326.5
25°	6893.7	6890.2	6834.1	6727.4	6757.1	6849.9	6865.7	6870.9	6828.9	6671.3	6480.5
27.5°	7088.0	7075.7	6968.9	6797.4	6816.6	6928.7	6949.7	7000.4	6974.2	6835.9	6655.6
30°	7649.9	7628.9	7410.1	7063.5	6968.9	7026.7	7053.0	7133.5	7138.7	7023.2	6888.4
32.5°	8598.7	8572.4	8180.3	7560.6	7226.3	7126.5	7151.0	7271.8	7336.6	7247.3	7102.0
35°	9797.8	9768.1	9253.4	8406.1	7656.9	7317.3	7334.8	7431.1	7560.6	7434.6	7242.0
37.5°	11047.7	10975.9	10480.5	9400.5	8341.4	7725.2	7725.2	7737.4	7798.7	7536.1	7406.6
40°	12290.6	12218.8	11770.7	10569.8	9227.1	8367.6	8327.4	8056.0	8007.0	7781.2	7737.4
42.5°	13446.0	13425.0	13160.6	11891.5	10267.0	8999.6	8943.6	8483.2	8493.7	8353.6	8355.4
45°	14674.9	14674.9	14459.5	13225.4	11478.4	10014.9	9958.9	9281.4	9386.4	9321.7	9477.5
47.5°	15677.9	15709.4	15679.7	14615.3	12887.5	11305.1	11203.5	10387.8	10681.9	10904.2	11357.6
50°	16702.0	16751.0	16756.3	16140.1	14590.8	12838.5	12723.0	11856.5	12512.9	13150.1	14041.2
52.5°	18188.2	18298.5	17859.1	17661.3	16677.5	14659.1	14545.3	13745.3	14841.2	15735.7	17270.9
55°	19565.9	19469.6	19156.3	19278.8	18911.2	16731.8	16646.0	15944.0	17435.5	18597.8	20591.7
57.5°	20311.6	20304.6	20619.7	21144.9	21319.9	19287.6	19215.8	18533.1	20360.6	21234.2	23709.5
60°	21186.9	21199.2	21979.9	23172.0	23893.3	22470.1	22438.6	21920.4	23201.8	23695.4	26155.0
62.5°	21309.4	21530.0	22874.4	24926.1	26302.0	26188.2	26258.3	24971.6	25743.6	25659.6	27980.8
65°	19900.3	20190.8	22624.1	25456.5	28696.8	30254.8	30319.5	28040.3	27748.0	27338.3	28633.7
67.5°	17011.8	17442.5	20085.8	24302.9	29486.3	33260.5	33351.5	30419.3	29411.0	27907.3	27061.8
70°	12379.9	12857.8	15518.6	20756.3	28078.8	34221.5	34324.8	31471.4	29474.0	26288.0	23102.0
72.5°	7478.3	7853.0	10046.4	15280.6	23698.9	32471.0	32654.8	30137.5	26909.5	22267.0	17059.1
75°	3284.0	3529.1	4857.8	8805.3	16966.3	26865.7	27095.0	25796.1	21864.4	16182.1	10083.2
77.5°	1398.7	1468.7	1992.1	3825.0	9591.3	18358.0	18673.1	18848.2	14834.2	8805.3	4260.8
80°	871.8	899.8	1127.4	1731.3	4488.4	10310.7	10650.3	11089.7	7366.3	3236.8	1488.0
82.5°	530.4	561.9	749.2	1046.8	2337.0	4674.0	4836.8	5146.6	2858.6	1398.7	770.2
85°	318.6	341.4	458.6	661.7	1330.4	1838.1	1836.3	2030.6	1346.2	899.8	406.1
87.5°	152.3	169.8	245.1	343.1	670.5	689.7	646.0	731.7	817.5	589.9	204.8
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°	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4	5211.4
2.5°	5207.9	5200.9	5178.1	5160.6	5157.1	5146.6	5137.9	5143.1	5150.1	5151.9	5151.9
5°	5206.1	5186.9	5157.1	5144.9	5160.6	5181.6	5207.9	5242.9	5263.9	5279.7	5290.2
7.5°	5290.2	5253.4	5220.1	5213.1	5244.6	5300.7	5360.2	5433.7	5484.5	5519.5	5526.5
10°	5430.2	5384.7	5351.4	5358.4	5414.5	5495.0	5579.0	5673.5	5750.6	5797.8	5801.3
12.5°	5591.3	5547.5	5516.0	5545.7	5638.5	5736.6	5824.1	5906.4	5976.4	6023.6	6023.6
15°	5776.8	5745.3	5708.5	5776.8	5902.9	5990.4	6027.1	6067.4	6105.9	6140.9	6133.9
17.5°	5955.4	5925.6	5906.4	5986.9	6118.2	6158.4	6133.9	6104.2	6104.2	6123.4	6126.9
20°	6109.4	6083.2	6095.4	6174.2	6242.5	6200.4	6109.4	6014.9	5976.4	5986.9	5997.4
22.5°	6244.2	6232.0	6268.7	6305.5	6256.5	6109.4	5941.4	5813.6	5766.3	5762.8	5766.3
25°	6401.8	6400.0	6445.5	6379.0	6161.9	5890.6	5664.8	5540.5	5514.2	5535.2	5570.3
27.5°	6597.8	6617.1	6639.8	6396.5	5969.4	5559.7	5330.4	5244.6	5270.9	5321.7	5354.9
30°	6848.2	6900.7	6851.7	6352.7	5692.8	5181.6	4962.8	4938.3	5010.1	5081.8	5116.9
32.5°	7091.5	7173.8	7054.7	6239.0	5335.7	4780.8	4610.9	4603.9	4691.5	4761.5	4810.5
35°	7287.5	7450.3	7207.0	6013.1	4922.5	4411.4	4287.1	4239.8	4271.3	4353.6	4409.6
37.5°	7543.1	7814.5	7312.0	5668.3	4474.4	4106.8	3961.5	3853.0	3825.0	3858.2	3886.2
40°	8010.5	8369.4	7361.1	5186.9	4036.8	3802.2	3655.1	3495.8	3385.6	3305.0	3306.8
42.5°	8773.8	9092.4	7329.6	4602.2	3632.4	3504.6	3338.3	3154.5	2975.9	2793.9	2779.9
45°	10013.1	10167.2	7235.0	3982.5	3277.0	3193.0	3037.2	2853.4	2615.3	2408.8	2389.5
47.5°	11996.5	11655.2	7088.0	3441.6	2963.7	2928.7	2785.1	2573.3	2321.2	2154.9	2140.9
50°	14701.1	13803.1	7016.2	3010.9	2687.1	2697.6	2580.3	2356.2	2118.2	1995.6	1981.6
52.5°	17936.1	16304.6	7154.5	2678.3	2464.8	2501.5	2414.0	2203.9	2004.4	1908.1	1894.1
55°	21291.9	18895.4	7303.3	2436.8	2254.7	2326.5	2296.7	2123.4	1943.1	1853.8	1841.6
57.5°	24164.6	20829.8	7005.7	2240.7	2067.4	2179.4	2205.7	2072.7	1911.6	1831.1	1817.1
60°	25972.9	21608.8	6225.0	2056.9	1918.6	2062.1	2153.2	2058.6	1923.9	1916.9	1906.3
62.5°	26830.7	21540.5	5053.8	1911.6	1825.8	2011.4	2191.7	2137.4	2063.9	2126.9	2132.2
65°	26445.6	20511.2	3763.7	1815.3	1759.3	2030.6	2307.2	2286.2	2104.2	2167.2	2175.9
67.5°	23910.8	18055.2	2786.9	1731.3	1685.8	2084.9	2517.3	2335.2	2025.4	2070.9	2042.9
70°	19326.1	14314.2	2149.7	1636.8	1610.5	2077.9	2611.8	2305.5	1939.6	1950.1	1874.8
72.5°	13326.9	9761.1	1748.8	1549.2	1502.0	1894.1	2545.3	2232.0	1867.8	1787.3	1687.5
75°	7247.3	5239.4	1486.2	1458.2	1311.2	1663.0	2422.8	2179.4	1803.1	1696.3	1640.3
77.5°	2851.6	2174.2	1290.2	1333.9	1146.6	1468.7	2286.2	2079.7	1713.8	1573.7	1545.7
80°	1164.1	1109.8	1069.6	1153.6	985.6	1284.9	2121.7	1962.4	1607.0	1460.0	1403.9
82.5°	660.0	689.7	831.5	910.3	800.0	1183.4	2042.9	1867.8	1479.2	1307.7	1241.1
85°	337.9	404.4	579.4	653.0	588.2	1006.6	1881.8	1635.0	1186.9	1001.3	1006.6
87.5°	162.8	225.8	365.9	409.6	381.6	728.2	1405.7	1185.1	924.3	731.7	709.0
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)