

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: P319102

Luminaire Tested: **GAN-SA8D-750-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319102  
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-SA8D-750-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61750 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

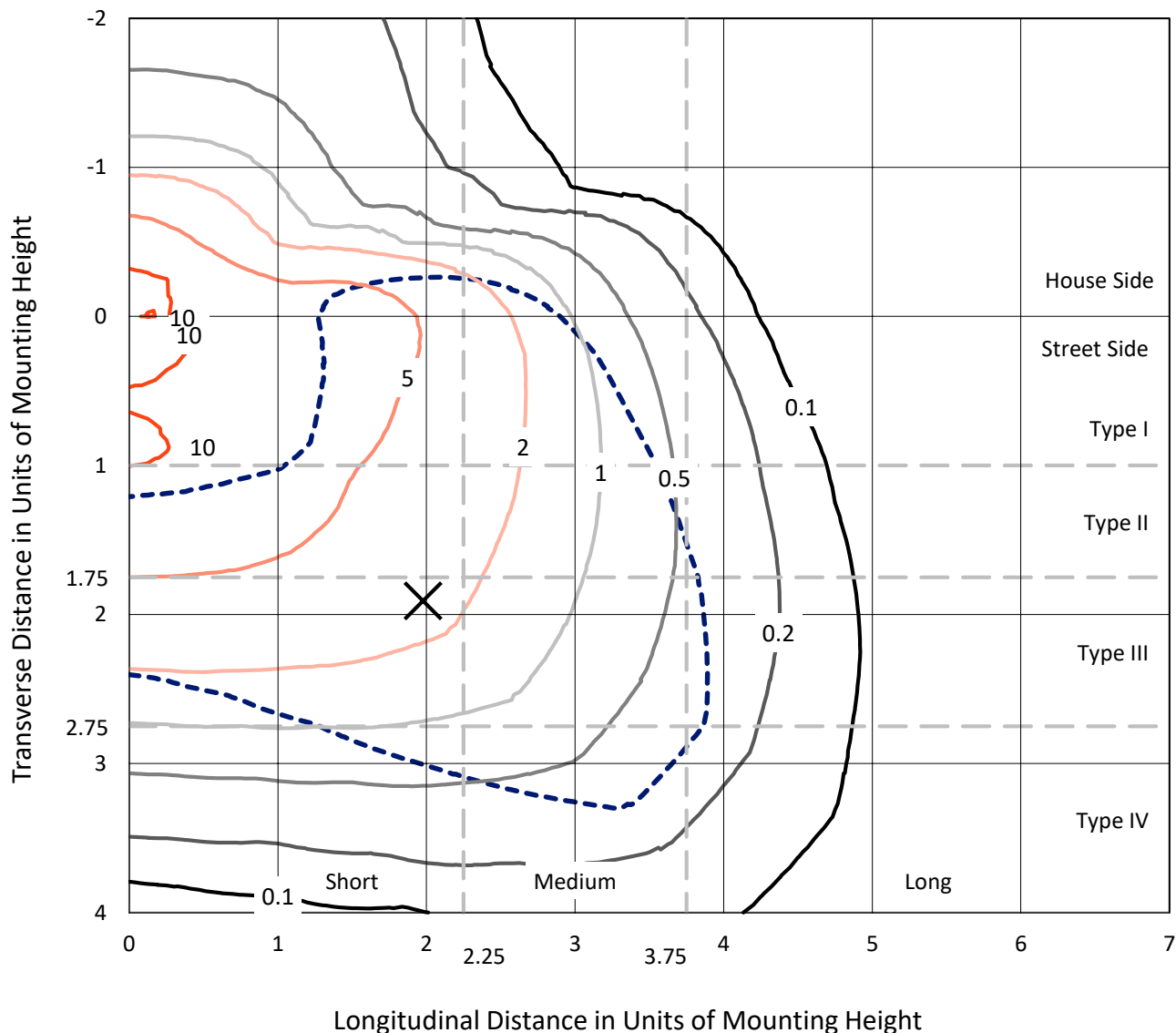
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

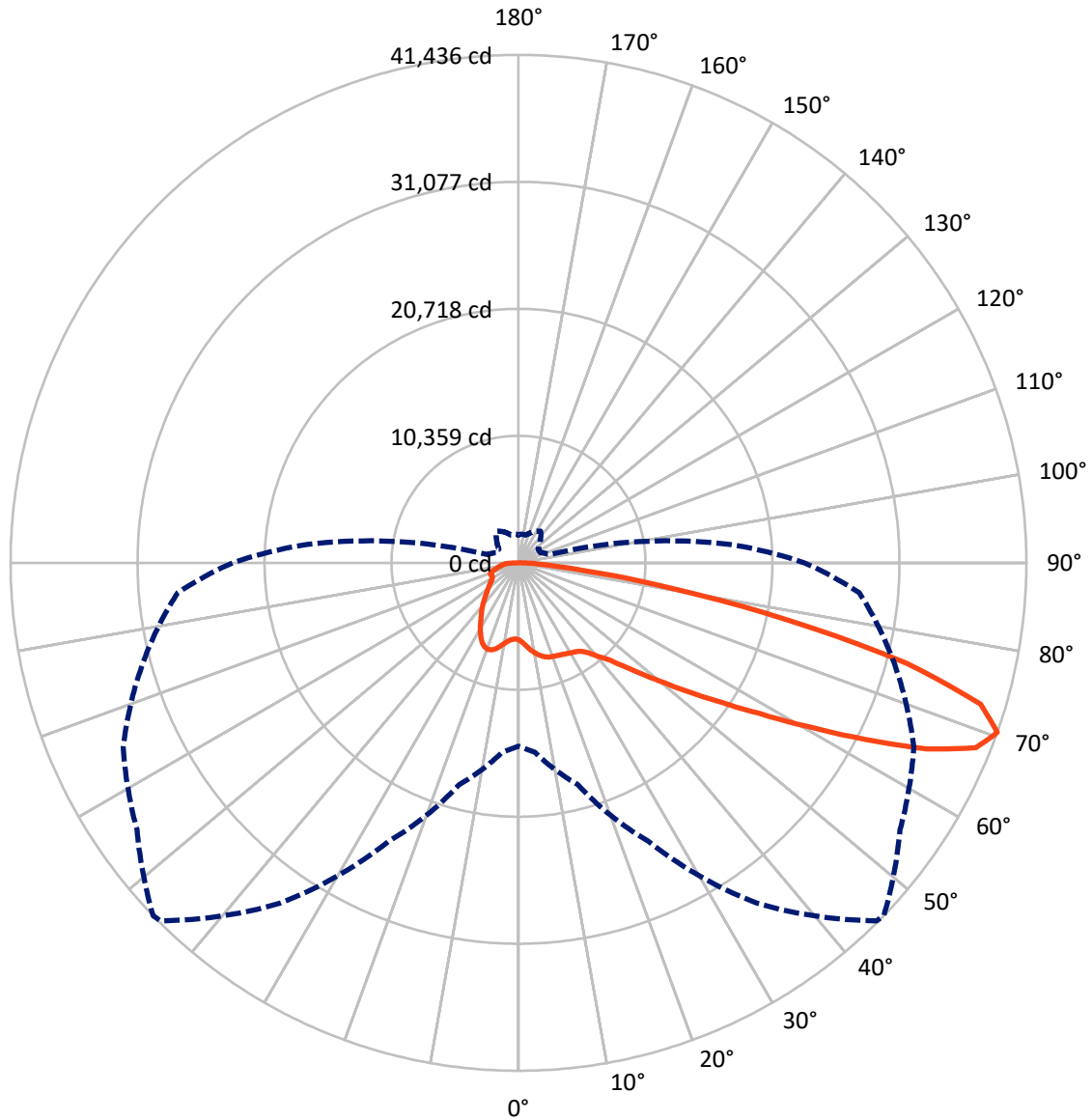
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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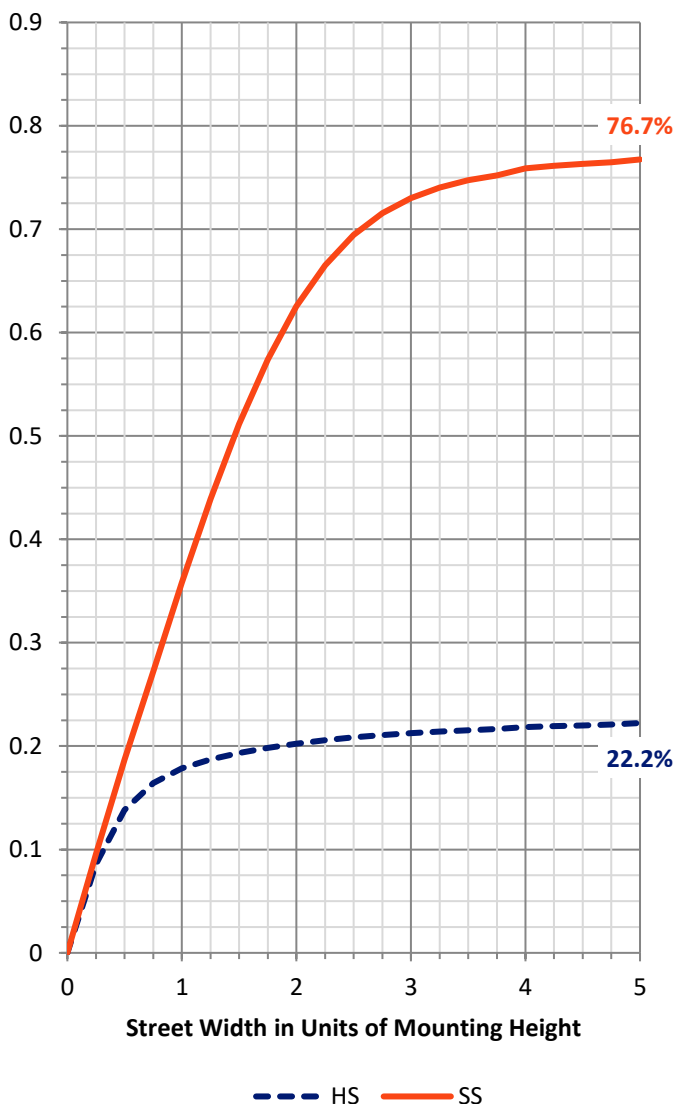
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14152.9	0.0	14152.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	47597.1	0.0	47597.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	61750.0	0.0	61750.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.3	1.0
10°-20°	2136.7	3.5
20°-30°	3562.7	5.8
30°-40°	5055.8	8.2
40°-50°	7436.7	12.0
50°-60°	12594.1	20.4
60°-70°	17877.1	29.0
70°-80°	10860.5	17.6
80°-90°	1585.0	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°	61750.0	100.0
0°-180°	61750.0	100.0

**Coefficient of Utilization**



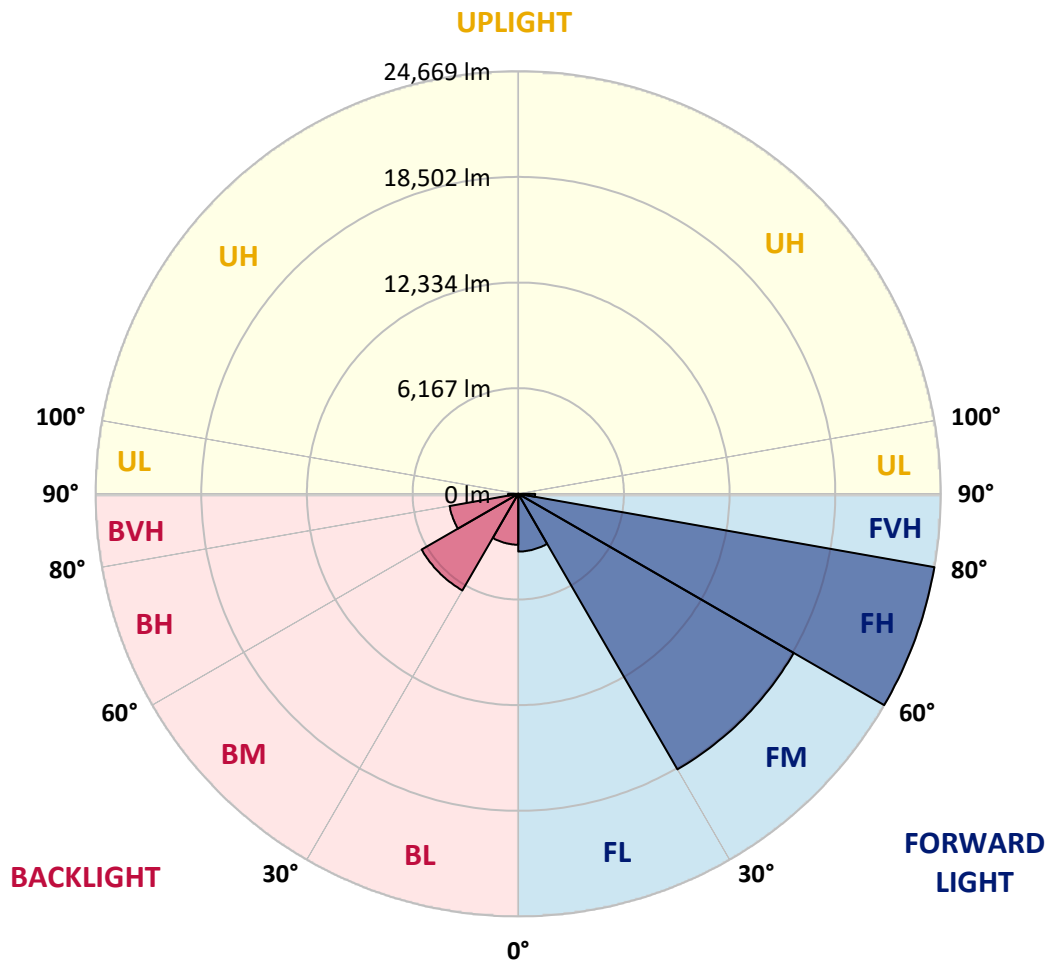
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3369.4	5.5			
FM (30°-60°)	18571.7	30.1			
FH (60°-80°)	24668.8	39.9			G5
FVH (80°-90°)	987.3	1.6			G5
BL (0°-30°)	2971.4	4.8	B4/5000		
BM (30°-60°)	6515.0	10.6	B4/8500		
BH (60°-80°)	4068.8	6.6	B4/5000		G4/5000
BVH (80°-90°)	597.7	1.0			G4/750
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°	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1
2.5°	6606.0	6610.2	6618.7	6597.5	6538.4	6521.5	6515.1	6453.8	6413.7	6354.5	6303.8
5°	7134.3	7138.5	7125.8	7066.7	6935.7	6838.4	6830.0	6690.5	6563.7	6428.5	6327.0
7.5°	7685.9	7692.2	7652.0	7540.0	7356.2	7187.1	7176.6	6986.4	6794.1	6589.1	6436.9
10°	8174.0	8148.7	8083.1	7926.8	7709.1	7502.0	7493.6	7294.9	7073.0	6825.8	6622.9
12.5°	8499.5	8478.3	8393.8	8203.6	7964.8	7774.6	7757.7	7573.9	7358.3	7087.8	6844.8
15°	8679.1	8693.9	8579.8	8364.2	8131.7	7971.1	7956.3	7825.3	7633.0	7360.4	7081.5
17.5°	8702.3	8715.0	8605.1	8391.7	8201.5	8091.6	8085.3	7998.6	7859.1	7597.1	7305.5
20°	8567.1	8575.5	8484.7	8309.3	8184.6	8150.8	8148.7	8110.6	8007.1	7774.6	7491.4
22.5°	8370.5	8376.9	8311.4	8184.6	8142.3	8195.1	8209.9	8195.1	8121.2	7903.5	7637.3
25°	8321.9	8317.7	8250.1	8121.2	8157.1	8269.1	8288.1	8294.5	8243.8	8053.6	7823.2
27.5°	8556.5	8541.7	8412.8	8205.7	8229.0	8364.2	8389.6	8450.8	8419.1	8252.2	8034.5
30°	9234.9	9209.5	8945.3	8526.9	8412.8	8482.5	8514.2	8611.5	8617.8	8478.3	8315.6
32.5°	10380.2	10348.5	9875.2	9127.1	8723.5	8603.0	8632.6	8778.4	8856.6	8748.8	8573.4
35°	11827.8	11791.9	11170.6	10147.8	9243.3	8833.3	8854.5	8970.7	9127.1	8974.9	8742.5
37.5°	13336.7	13250.0	12652.0	11348.1	10069.6	9325.7	9325.7	9340.5	9414.5	9097.5	8941.1
40°	14837.1	14750.4	14209.4	12759.7	11138.9	10101.3	10052.7	9725.1	9666.0	9393.4	9340.5
42.5°	16231.8	16206.4	15887.3	14355.2	12394.2	10864.2	10796.5	10240.8	10253.4	10084.4	10086.5
45°	17715.3	17715.3	17455.4	15965.5	13856.5	12089.8	12022.2	11204.4	11331.2	11253.0	11441.1
47.5°	18926.2	18964.2	18928.3	17643.4	15557.7	13647.3	13524.7	12540.0	12895.0	13163.4	13710.7
50°	20162.4	20221.6	20227.9	19484.1	17613.9	15498.5	15359.0	14313.0	15105.4	15874.7	16950.3
52.5°	21956.6	22089.7	21559.3	21320.5	20132.8	17696.3	17558.9	16593.2	17916.1	18995.9	20849.2
55°	23619.7	23503.5	23125.2	23273.1	22829.3	20198.4	20094.8	19247.4	21047.9	22451.1	24858.0
57.5°	24519.9	24511.5	24891.9	25525.8	25737.2	23283.7	23197.0	22372.9	24579.1	25633.6	28621.7
60°	25576.5	25591.3	26533.8	27973.0	28843.6	27125.6	27087.5	26462.0	28008.9	28604.8	31573.9
62.5°	25724.5	25990.7	27613.7	30090.4	31751.4	31614.1	31698.6	30145.4	31077.3	30975.9	33778.0
65°	24023.3	24374.1	27311.5	30730.7	34642.3	36523.1	36601.3	33849.9	33497.0	33002.5	34566.3
67.5°	20536.5	21056.3	24247.3	29338.1	35595.4	40151.6	40261.5	36721.8	35504.6	33689.3	32668.6
70°	14944.8	15521.7	18733.9	25056.7	33896.4	41311.7	41436.4	37991.8	35580.6	31734.5	27888.4
72.5°	9027.8	9480.0	12127.9	18446.5	28609.0	39198.5	39420.4	36381.5	32484.7	26880.4	20593.5
75°	3964.4	4260.3	5864.2	10629.6	20481.5	32431.9	32708.7	31140.7	26394.4	19534.8	12172.3
77.5°	1688.5	1773.0	2404.9	4617.4	11578.4	22161.6	22541.9	22753.3	17907.6	10629.6	5143.6
80°	1052.4	1086.2	1360.9	2090.0	5418.3	12447.0	12857.0	13387.4	8892.5	3907.4	1796.3
82.5°	640.3	678.4	904.5	1263.7	2821.2	5642.4	5838.9	6212.9	3450.9	1688.5	929.8
85°	384.6	412.1	553.7	798.8	1606.1	2218.9	2216.8	2451.4	1625.1	1086.2	490.3
87.5°	183.9	205.0	295.9	414.2	809.4	832.6	779.8	883.3	986.9	712.2	247.2
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°	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1	6291.1
2.5°	6286.9	6278.4	6251.0	6229.8	6225.6	6212.9	6202.4	6208.7	6217.2	6219.3	6219.3
5°	6284.8	6261.5	6225.6	6210.8	6229.8	6255.2	6286.9	6329.2	6354.5	6373.5	6386.2
7.5°	6386.2	6341.8	6301.7	6293.2	6331.3	6398.9	6470.7	6559.5	6620.8	6663.0	6671.5
10°	6555.3	6500.3	6460.2	6468.6	6536.3	6633.5	6734.9	6849.0	6942.0	6999.1	7003.3
12.5°	6749.7	6696.9	6658.8	6694.7	6806.7	6925.1	7030.8	7130.1	7214.6	7271.7	7271.7
15°	6973.7	6935.7	6891.3	6973.7	7125.8	7231.5	7275.9	7324.5	7371.0	7413.2	7404.8
17.5°	7189.2	7153.3	7130.1	7227.3	7385.8	7434.4	7404.8	7368.9	7368.9	7392.1	7396.3
20°	7375.2	7343.5	7358.3	7453.4	7535.8	7485.1	7375.2	7261.1	7214.6	7227.3	7240.0
22.5°	7537.9	7523.1	7567.5	7611.9	7552.7	7375.2	7172.3	7018.1	6961.0	6956.8	6961.0
25°	7728.1	7726.0	7781.0	7700.6	7438.6	7111.1	6838.4	6688.4	6656.7	6682.1	6724.3
27.5°	7964.8	7988.0	8015.5	7721.8	7206.1	6711.7	6434.8	6331.3	6363.0	6424.3	6464.4
30°	8267.0	8330.4	8271.2	7668.9	6872.3	6255.2	5991.0	5961.5	6048.1	6134.7	6177.0
32.5°	8560.7	8660.1	8516.4	7531.6	6441.2	5771.3	5566.3	5557.8	5663.5	5748.0	5807.2
35°	8797.4	8994.0	8700.2	7259.0	5942.4	5325.4	5175.3	5118.3	5156.3	5255.6	5323.3
37.5°	9106.0	9433.5	8827.0	6842.7	5401.4	4957.7	4782.3	4651.2	4617.4	4657.6	4691.4
40°	9670.2	10103.4	8886.2	6261.5	4873.1	4590.0	4412.4	4220.1	4087.0	3989.8	3991.9
42.5°	10591.6	10976.2	8848.1	5555.7	4385.0	4230.7	4029.9	3808.1	3592.5	3372.7	3355.8
45°	12087.7	12273.7	8734.0	4807.6	3956.0	3854.6	3666.5	3444.6	3157.2	2907.8	2884.6
47.5°	14482.0	14070.0	8556.5	4154.6	3577.7	3535.5	3362.2	3106.5	2802.2	2601.4	2584.5
50°	17747.0	16662.9	8469.9	3634.8	3243.8	3256.5	3114.9	2844.4	2557.0	2409.1	2392.2
52.5°	21652.3	19682.7	8636.8	3233.3	2975.4	3019.8	2914.2	2660.6	2419.7	2303.4	2286.5
55°	25703.3	22810.3	8816.4	2941.6	2721.9	2808.5	2772.6	2563.4	2345.7	2237.9	2223.1
57.5°	29171.2	25145.4	8457.2	2704.9	2495.7	2631.0	2662.7	2502.1	2307.7	2210.4	2193.5
60°	31354.1	26085.8	7514.7	2483.1	2316.1	2489.4	2599.3	2485.2	2322.5	2314.0	2301.3
62.5°	32389.6	26003.4	6100.9	2307.7	2204.1	2428.1	2645.8	2580.3	2491.5	2567.6	2573.9
65°	31924.7	24760.8	4543.5	2191.4	2123.8	2451.4	2785.3	2759.9	2540.1	2616.2	2626.8
67.5°	28864.7	21796.0	3364.3	2090.0	2035.1	2516.9	3038.8	2819.1	2445.0	2500.0	2466.2
70°	23330.2	17280.0	2595.1	1975.9	1944.2	2508.4	3153.0	2783.1	2341.5	2354.1	2263.3
72.5°	16088.1	11783.4	2111.1	1870.2	1813.2	2286.5	3072.7	2694.4	2254.8	2157.6	2037.2
75°	8748.8	6324.9	1794.1	1760.3	1582.8	2007.6	2924.7	2631.0	2176.6	2047.7	1980.1
77.5°	3442.5	2624.6	1557.5	1610.3	1384.2	1773.0	2759.9	2510.5	2068.9	1899.8	1866.0
80°	1405.3	1339.8	1291.2	1392.6	1189.8	1551.1	2561.2	2368.9	1940.0	1762.4	1694.8
82.5°	796.7	832.6	1003.8	1098.9	965.8	1428.6	2466.2	2254.8	1785.7	1578.6	1498.3
85°	407.9	488.2	699.5	788.2	710.0	1215.1	2271.7	1973.8	1432.8	1208.8	1215.1
87.5°	196.5	272.6	441.7	494.5	460.7	879.1	1696.9	1430.7	1115.8	883.3	855.9
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)