

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: P318403

Luminaire Tested: **GAN-SA9B-740-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318403  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9B-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51099 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

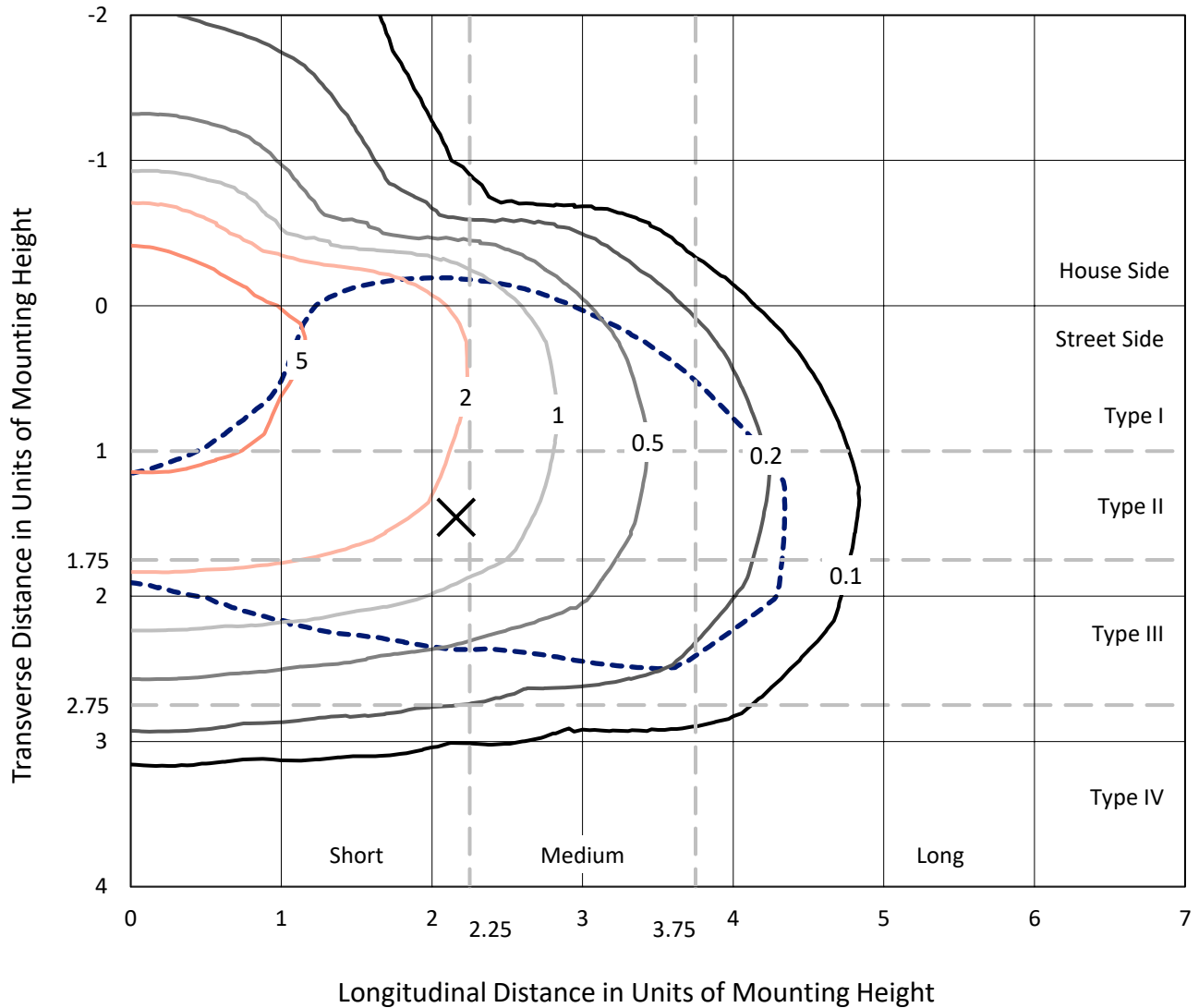
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

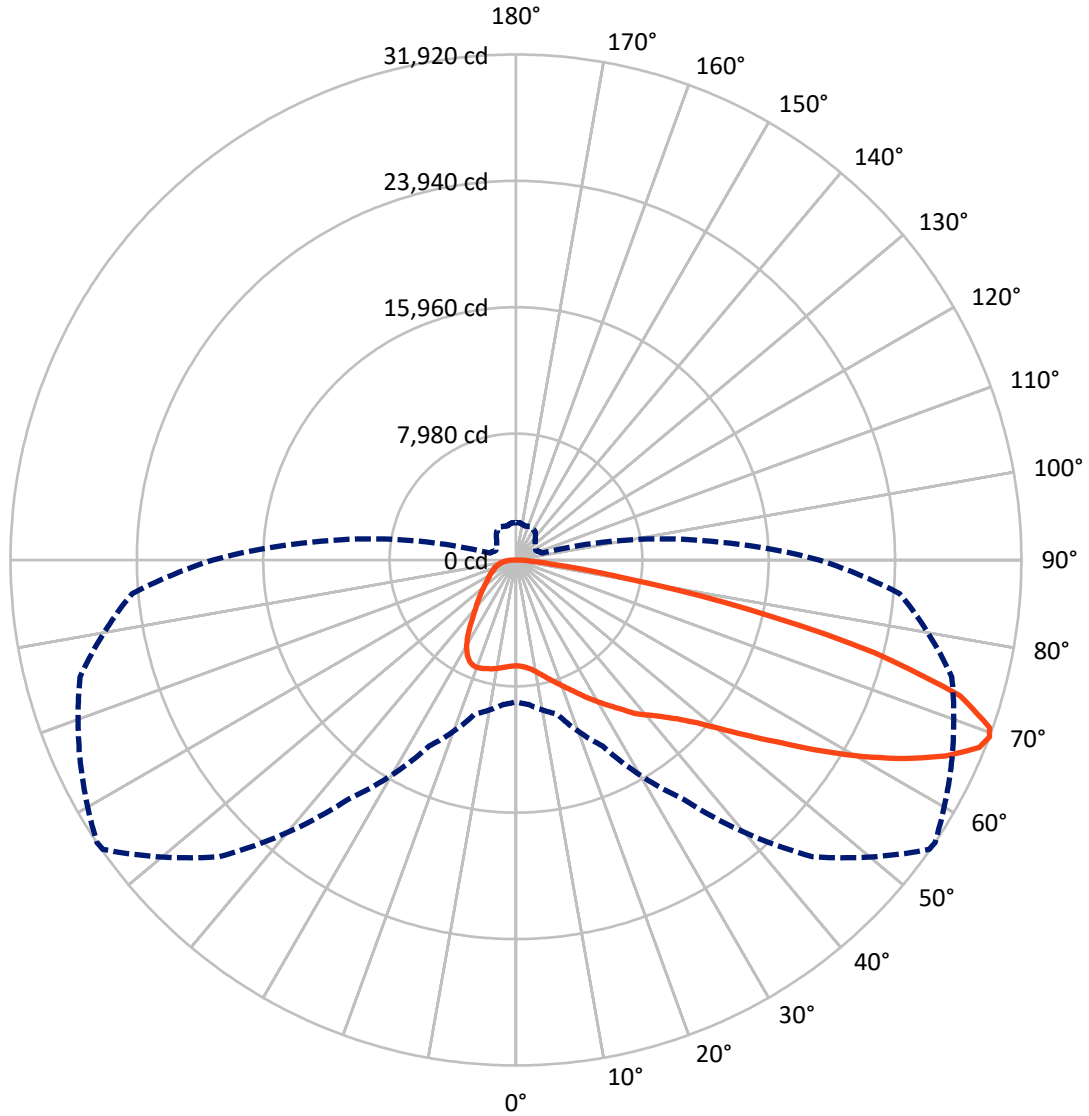
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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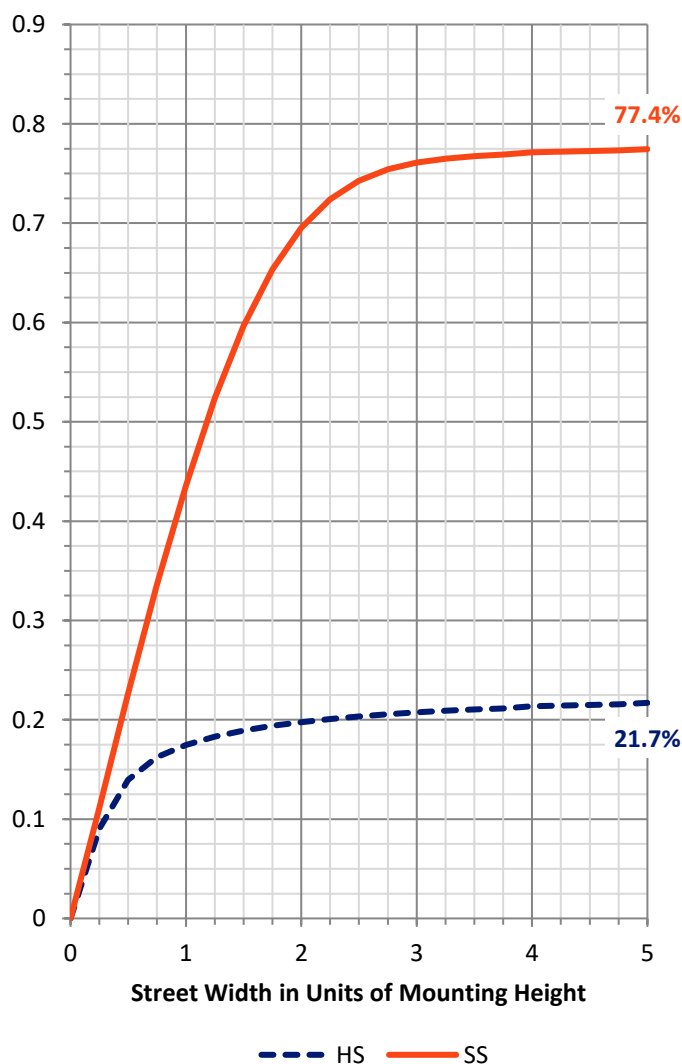
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11379.7	0.0	11379.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	39719.3	0.0	39719.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	51099.0	0.0	51099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	656.1	1.3
10°-20°	2109.8	4.1
20°-30°	3683.0	7.2
30°-40°	5290.4	10.4
40°-50°	7321.7	14.3
50°-60°	10727.3	21.0
60°-70°	13078.6	25.6
70°-80°	7230.7	14.2
80°-90°	1001.5	2.0
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°	51099.0	100.0
0°-180°	51099.0	100.0

**Coefficient of Utilization**

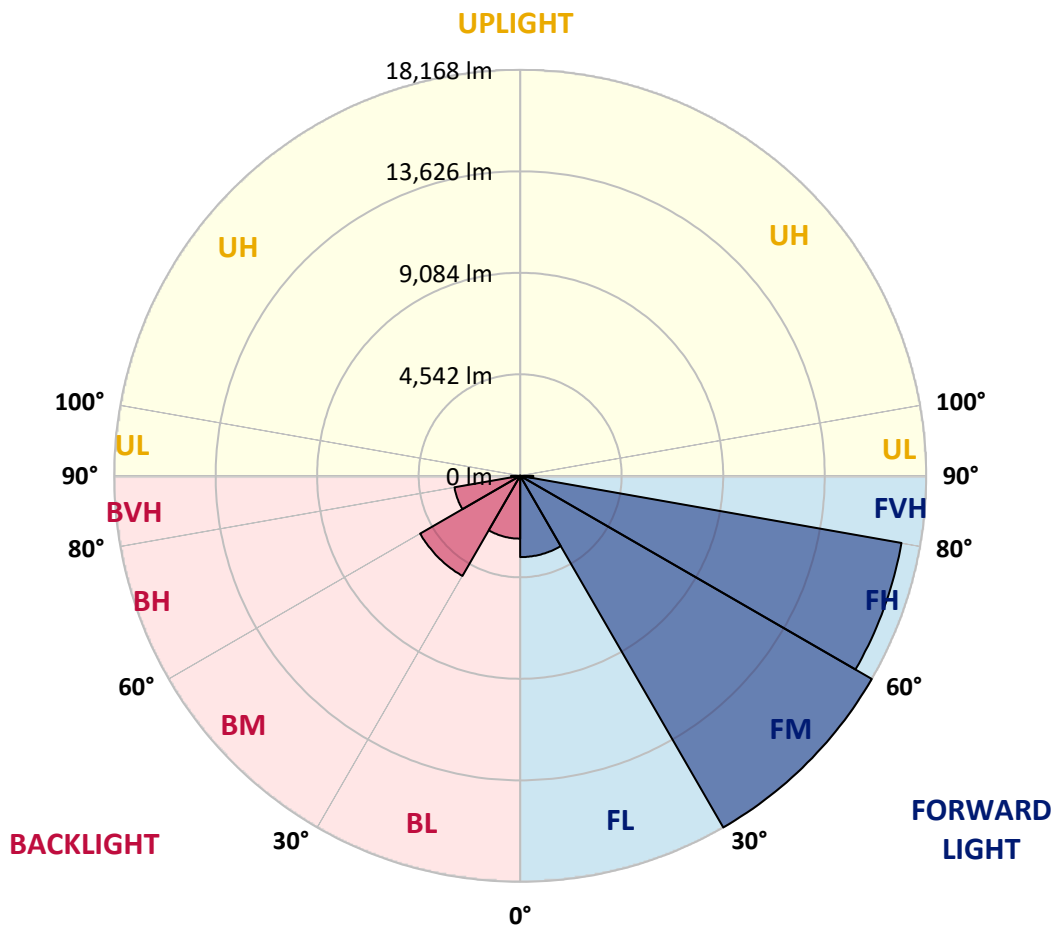


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3636.7	7.1			
FM (30°-60°)	18167.6	35.6			
FH (60°-80°)	17325.1	33.9			G5
FVH (80°-90°)	589.9	1.2			G4/750
BL (0°-30°)	2812.2	5.5	B4/5000		
BM (30°-60°)	5171.8	10.1	B4/8500		
BH (60°-80°)	2984.1	5.8	B4/5000		G4/5000
BVH (80°-90°)	411.6	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4
2.5°	6722.7	6729.7	6724.4	6738.5	6722.7	6733.2	6724.4	6724.4	6719.2	6703.3	6685.7
5°	6828.3	6842.4	6833.6	6847.7	6828.3	6831.8	6816.0	6816.0	6800.1	6766.7	6731.5
7.5°	6993.8	7009.6	7002.6	7016.6	6990.2	6990.2	6969.1	6967.4	6935.7	6881.1	6840.6
10°	7190.9	7212.0	7205.0	7226.1	7205.0	7212.0	7190.9	7190.9	7148.7	7071.2	7020.2
12.5°	7477.9	7504.3	7484.9	7483.1	7474.3	7488.4	7470.8	7467.3	7428.6	7322.9	7252.5
15°	7861.6	7889.8	7849.3	7845.8	7796.5	7791.2	7791.2	7785.9	7761.3	7634.5	7518.3
17.5°	8303.4	8312.2	8277.0	8220.7	8157.3	8116.8	8111.6	8125.7	8125.7	7977.8	7792.9
20°	8736.5	8752.3	8724.2	8660.8	8579.8	8520.0	8477.7	8505.9	8504.1	8328.1	8065.8
22.5°	9208.2	9245.2	9203.0	9122.0	9026.9	8960.0	8886.1	8910.8	8912.5	8696.0	8333.4
25°	9819.1	9785.6	9759.2	9644.8	9509.3	9440.6	9372.0	9396.6	9389.6	9092.1	8609.7
27.5°	10359.5	10366.5	10331.3	10209.9	10053.2	9901.8	9898.3	9914.1	9887.7	9504.0	8870.3
30°	10987.9	10991.5	10942.2	10833.0	10662.3	10466.9	10421.1	10447.5	10391.2	9894.8	9144.9
32.5°	11612.8	11630.5	11575.9	11443.9	11306.6	11068.9	10977.4	10995.0	10854.2	10294.4	9428.3
35°	12160.3	12185.0	12167.4	12079.3	11929.7	11725.5	11616.4	11605.8	11431.5	10783.7	9803.2
37.5°	12718.3	12741.2	12721.9	12647.9	12588.1	12371.5	12313.5	12313.5	12010.7	11283.7	10280.3
40°	13292.2	13327.4	13304.5	13202.4	13151.4	13052.8	12913.7	12880.3	12552.9	11883.9	11058.3
42.5°	13825.6	13871.3	13962.9	13903.0	13799.2	13813.3	13533.4	13515.8	13276.4	12771.1	12035.3
45°	14582.5	14649.4	14804.3	14758.5	14737.4	14660.0	14327.3	14311.4	14219.9	13964.6	13248.2
47.5°	15408.1	15499.6	15779.5	15788.3	16015.4	15869.3	15416.9	15362.3	15383.5	15394.0	14728.6
50°	16168.6	16268.9	16728.3	16944.9	17480.0	17511.7	16788.2	16738.9	16821.6	17064.6	16453.7
52.5°	16775.9	16902.6	17476.5	18145.4	19062.5	19323.1	18476.3	18439.4	18501.0	18919.9	18404.2
55°	17221.2	17358.5	17983.5	19201.6	20666.2	21125.6	20419.7	20384.5	20423.3	20956.6	20525.4
57.5°	17325.1	17358.5	18265.1	19912.8	22019.9	23123.6	22797.9	22727.5	22537.4	23002.1	22866.6
60°	16837.5	16971.3	18032.7	20162.7	23067.3	25093.4	25283.5	25195.5	24662.1	25042.4	24933.2
62.5°	15848.2	16087.6	17164.9	19782.5	23477.4	26702.3	27721.6	27615.9	26697.1	26943.5	26418.9
65°	14232.2	14334.3	15466.2	18471.1	22956.4	27732.1	29895.6	29842.8	28686.2	28300.7	26693.5
67.5°	11341.8	11533.6	12494.8	15730.2	20824.6	27610.7	31576.7	31571.4	29985.3	28804.2	25720.1
69°	8960.0	9159.0	10074.3	12957.7	18427.1	26499.9	31858.3	31919.9	30351.5	28497.9	24329.4
70°	7143.4	7374.0	8002.4	10914.0	16298.8	25035.3	31624.2	31735.1	30281.1	27992.7	23046.1
72.5°	3040.1	3226.7	3673.8	5626.0	9933.5	18694.6	28915.1	29334.0	28649.3	25619.7	19046.7
75°	1327.3	1385.4	1587.8	2293.7	4409.6	10174.7	22651.8	23426.4	24496.7	21655.5	14188.2
77.5°	971.7	996.3	1107.2	1346.6	1978.6	3842.8	14566.7	15017.3	17666.6	15758.4	8703.0
80°	751.7	769.3	855.5	989.3	1292.1	1554.4	6643.5	7030.7	9933.5	8094.0	3624.5
82.5°	598.5	610.8	670.7	728.8	892.5	941.8	2205.7	2446.8	3666.8	2235.6	959.4
85°	556.3	570.3	591.5	531.6	572.1	552.7	954.1	998.1	1107.2	878.4	401.4
87.5°	251.7	297.5	586.2	413.7	304.5	242.9	390.8	408.4	459.4	461.2	177.8
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°	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4	6680.4
2.5°	6696.3	6691.0	6699.8	6678.7	6705.1	6703.3	6694.5	6698.0	6715.6	6713.9	6715.6
5°	6736.8	6733.2	6743.8	6728.0	6759.6	6770.2	6772.0	6787.8	6807.2	6812.4	6812.4
7.5°	6838.9	6838.9	6844.1	6823.0	6844.1	6842.4	6833.6	6849.4	6868.8	6870.5	6868.8
10°	7014.9	7016.6	7007.8	6953.3	6935.7	6888.1	6844.1	6845.9	6870.5	6889.9	6895.2
12.5°	7236.7	7229.6	7190.9	7090.6	7016.6	6919.8	6874.1	6872.3	6896.9	6912.8	6918.1
15°	7490.2	7470.8	7370.5	7206.8	7076.5	6981.4	6907.5	6889.9	6875.8	6858.2	6860.0
17.5°	7729.6	7685.6	7518.3	7291.3	7154.0	7027.2	6884.6	6770.2	6691.0	6645.2	6631.1
20°	7972.5	7886.2	7645.1	7370.5	7196.2	6965.6	6691.0	6458.6	6314.3	6247.4	6235.1
22.5°	8194.3	8055.2	7763.0	7453.2	7162.8	6757.9	6326.6	5988.6	5787.9	5698.2	5705.2
25°	8410.8	8217.2	7886.2	7511.3	6993.8	6391.7	5819.6	5404.2	5171.8	5071.5	5068.0
27.5°	8600.9	8380.9	8020.0	7463.8	6678.7	5870.7	5219.4	4814.5	4620.8	4534.6	4520.5
30°	8819.2	8586.9	8197.8	7282.5	6217.5	5268.6	4633.2	4348.0	4210.7	4124.4	4108.6
32.5°	9085.0	8866.7	8343.9	6953.3	5627.8	4640.2	4175.5	3976.6	3851.6	3754.8	3737.2
35°	9472.3	9236.4	8380.9	6481.5	4980.0	4143.8	3839.3	3635.1	3466.1	3341.1	3328.8
37.5°	9958.1	9699.4	8296.4	5870.7	4351.5	3821.7	3559.4	3307.6	3087.6	2911.6	2883.4
40°	10658.8	10268.0	8062.3	5166.5	3888.6	3573.5	3286.5	2999.6	2726.7	2520.8	2480.3
42.5°	11500.2	10935.1	7703.2	4465.9	3548.8	3321.7	3015.4	2659.8	2399.3	2253.2	2232.1
45°	12570.5	11628.7	7205.0	3853.3	3214.3	3070.0	2723.2	2395.8	2233.8	2126.5	2108.9
47.5°	13792.1	12406.8	6682.2	3355.2	2930.9	2834.1	2489.1	2277.9	2149.4	2064.9	2049.0
50°	15293.7	13285.2	6127.7	2946.8	2645.8	2550.7	2378.2	2212.7	2110.6	2045.5	2029.7
52.5°	16987.1	14276.2	5728.1	2624.6	2409.9	2341.2	2320.1	2177.5	2094.8	2045.5	2029.7
55°	18810.8	15284.9	5296.8	2353.6	2205.7	2225.0	2281.4	2181.0	2124.7	2064.9	2042.0
57.5°	20636.3	16327.0	4816.2	2124.7	2043.7	2138.8	2255.0	2188.1	2140.6	2082.5	2061.3
60°	22079.7	16987.1	4071.6	1932.8	1915.2	2043.7	2191.6	2135.3	2073.7	2075.4	2071.9
62.5°	22753.9	16951.9	3249.6	1762.1	1786.7	1915.2	2089.5	2052.5	2001.5	2070.1	2075.4
65°	22375.5	16107.0	2529.6	1607.2	1649.4	1781.4	1983.9	2012.0	2029.7	2161.7	2179.3
67.5°	20787.7	14462.8	1959.2	1471.6	1524.4	1689.9	1994.4	2191.6	2214.5	2353.6	2351.8
69°	19145.3	12920.8	1702.2	1401.2	1462.8	1712.8	2131.8	2306.0	2219.8	2367.6	2346.5
70°	17768.7	11700.9	1564.9	1353.7	1434.7	1753.3	2223.3	2304.3	2193.4	2320.1	2284.9
72.5°	13684.7	8417.9	1327.3	1265.7	1339.6	1677.6	2249.7	2253.2	2131.8	2156.4	2096.5
75°	9386.0	5319.7	1158.3	1146.0	1195.3	1512.1	2165.2	2152.9	1971.6	1936.4	1887.1
77.5°	5175.3	2702.1	984.0	1031.5	1065.0	1339.6	1968.0	1950.4	1800.8	1726.9	1709.3
80°	1996.2	1182.9	830.9	917.1	938.3	1160.1	1725.1	1709.3	1584.3	1489.2	1462.8
82.5°	753.4	619.6	686.5	793.9	786.9	957.6	1461.1	1452.3	1330.8	1191.7	1149.5
85°	348.5	371.4	543.9	654.8	603.8	709.4	1168.9	1184.7	1036.8	871.4	871.4
87.5°	147.9	207.7	385.5	494.7	406.6	478.8	857.3	818.6	751.7	521.1	489.4
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)