

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: P319052

Luminaire Tested: **GAN-SA8C-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319052
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-SA8C-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56291 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

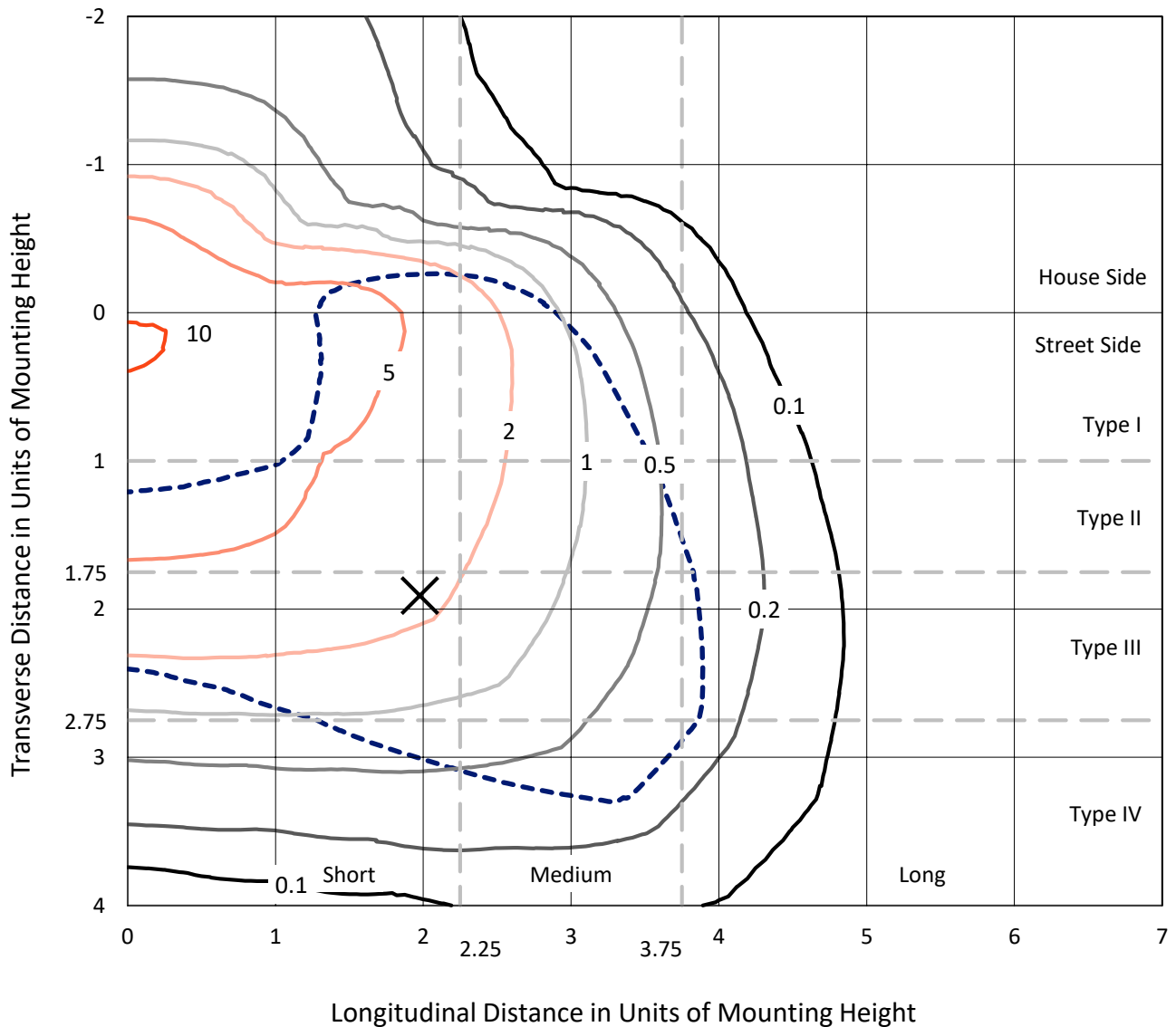
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

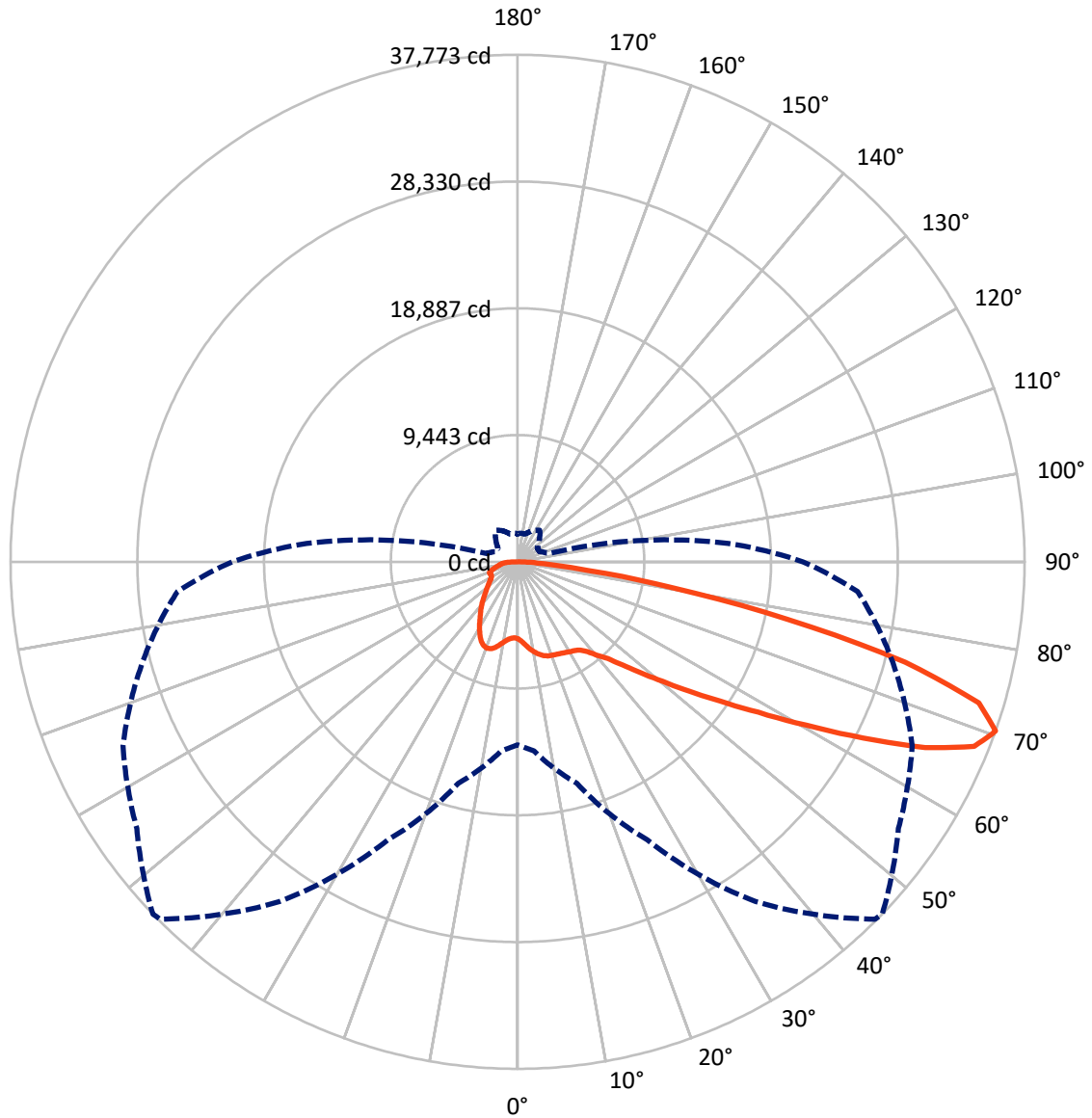
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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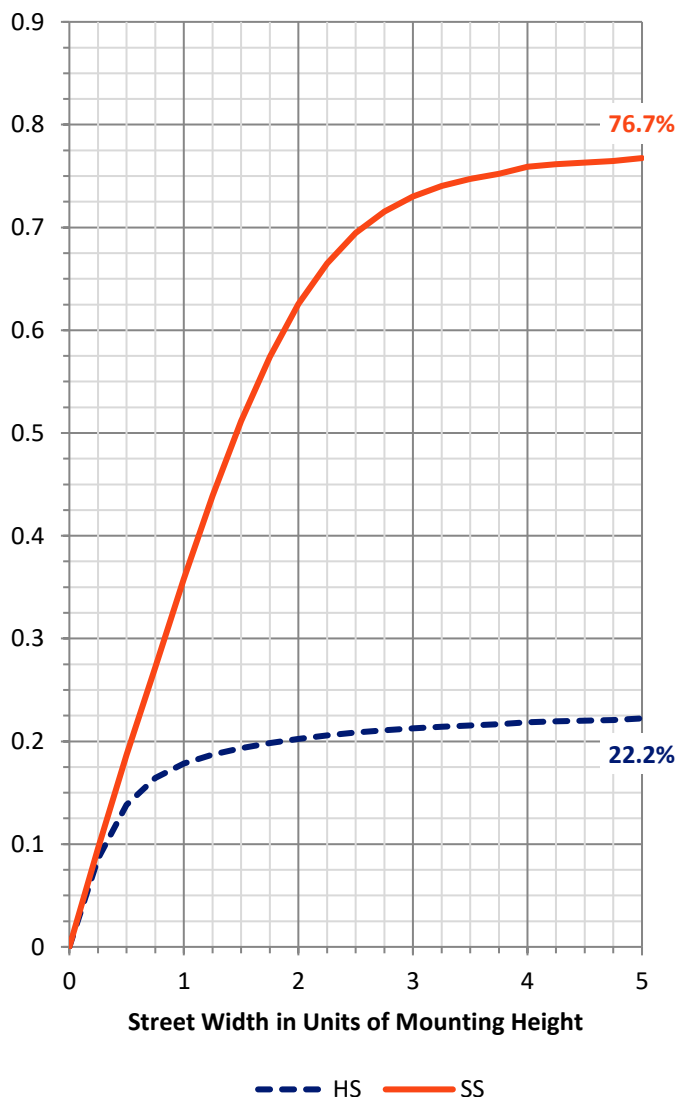
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12901.7	0.0	12901.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	43389.3	0.0	43389.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	56291.0	0.0	56291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.6	1.0
10°-20°	1947.8	3.5
20°-30°	3247.8	5.8
30°-40°	4608.8	8.2
40°-50°	6779.3	12.0
50°-60°	11480.7	20.4
60°-70°	16296.7	29.0
70°-80°	9900.4	17.6
80°-90°	1444.8	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°	56291.0	100.0
0°-180°	56291.0	100.0

Coefficient of Utilization

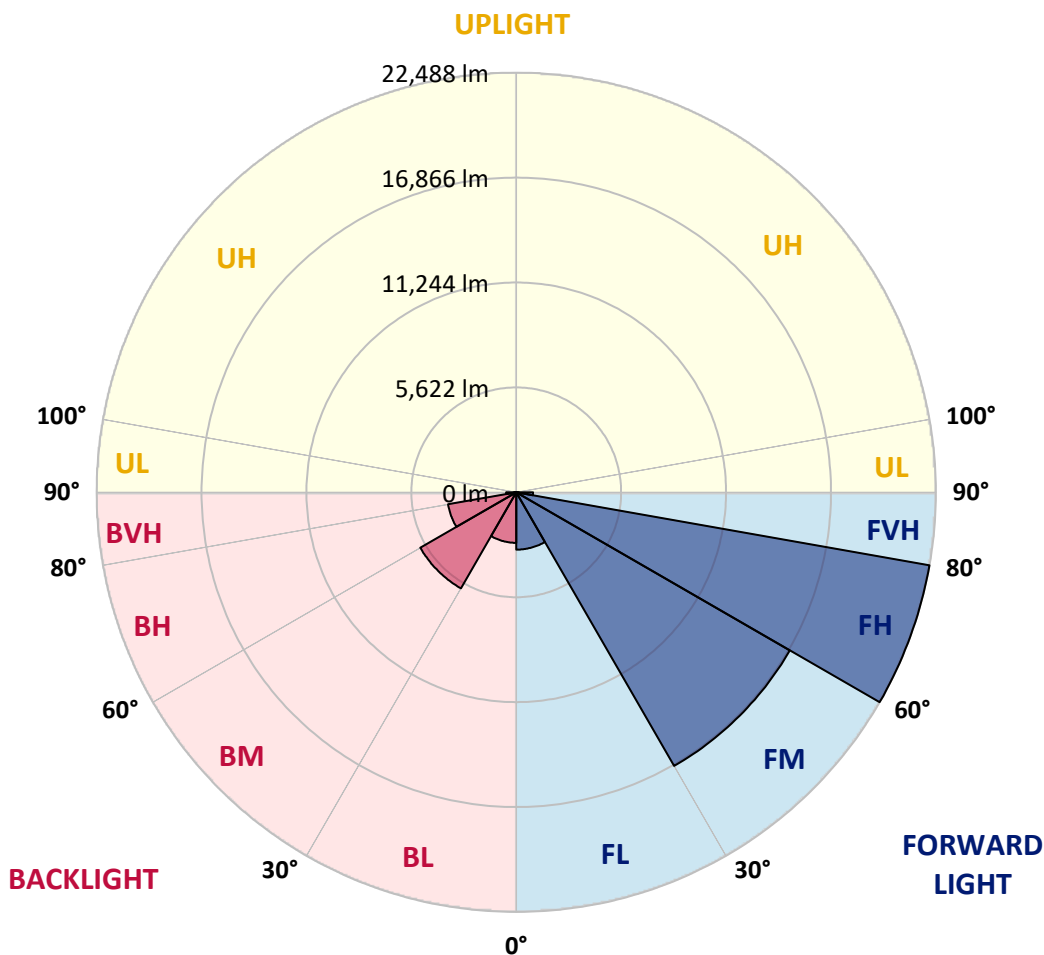


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.5	5.5			
FM (30°-60°)	16929.8	30.1			
FH (60°-80°)	22487.9	39.9			G5
FVH (80°-90°)	900.0	1.6			G5
BL (0°-30°)	2708.8	4.8	B4/5000		
BM (30°-60°)	5939.0	10.6	B4/8500		
BH (60°-80°)	3709.1	6.6	B4/5000		G4/5000
BVH (80°-90°)	544.8	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°	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0
2.5°	6022.0	6025.8	6033.5	6014.3	5960.3	5944.9	5939.2	5883.3	5846.7	5792.7	5746.5
5°	6503.6	6507.4	6495.9	6441.9	6322.5	6233.9	6226.2	6099.0	5983.5	5860.2	5767.7
7.5°	7006.4	7012.2	6975.6	6873.5	6705.9	6551.8	6542.1	6368.7	6193.4	6006.6	5867.9
10°	7451.4	7428.3	7368.6	7226.0	7027.6	6838.8	6831.1	6650.0	6447.7	6222.3	6037.4
12.5°	7748.1	7728.8	7651.7	7478.4	7260.7	7087.3	7071.9	6904.3	6707.8	6461.2	6239.7
15°	7911.8	7925.3	7821.3	7624.8	7412.9	7266.5	7253.0	7133.5	6958.2	6709.7	6455.4
17.5°	7933.0	7944.6	7844.4	7649.8	7476.4	7376.3	7370.5	7291.5	7164.4	6925.5	6659.6
20°	7809.7	7817.4	7734.6	7574.7	7461.0	7430.2	7428.3	7393.6	7299.2	7087.3	6829.2
22.5°	7630.5	7636.3	7576.6	7461.0	7422.5	7470.7	7484.1	7470.7	7403.2	7204.8	6962.1
25°	7586.2	7582.4	7520.7	7403.2	7436.0	7538.1	7555.4	7561.2	7515.0	7341.6	7131.6
27.5°	7800.1	7786.6	7669.1	7480.3	7501.5	7624.8	7647.9	7703.8	7674.9	7522.7	7324.2
30°	8418.5	8395.3	8154.5	7773.1	7669.1	7732.6	7761.5	7850.2	7855.9	7728.8	7580.5
32.5°	9462.6	9433.7	9002.2	8320.2	7952.3	7842.5	7869.4	8002.3	8073.6	7975.4	7815.5
35°	10782.2	10749.4	10183.1	9250.7	8426.2	8052.4	8071.7	8177.7	8320.2	8181.5	7969.6
37.5°	12157.6	12078.7	11533.5	10344.9	9179.4	8501.3	8501.3	8514.8	8582.2	8293.2	8150.7
40°	13525.4	13446.4	12953.2	11631.7	10154.2	9208.3	9164.0	8865.4	8811.4	8562.9	8514.8
42.5°	14796.8	14773.7	14482.8	13086.2	11298.5	9903.7	9842.1	9335.4	9347.0	9192.9	9194.8
45°	16149.2	16149.2	15912.2	14554.1	12631.5	11021.0	10959.4	10213.9	10329.5	10258.2	10429.6
47.5°	17253.0	17287.7	17254.9	16083.7	14182.3	12440.8	12329.1	11431.4	11755.0	11999.7	12498.6
50°	18380.0	18433.9	18439.7	17761.6	16056.7	14128.4	14001.2	13047.6	13770.0	14471.3	15451.8
52.5°	20015.5	20136.9	19653.3	19435.6	18353.0	16131.8	16006.6	15126.2	16332.2	17316.6	19006.1
55°	21531.6	21425.6	21080.8	21215.7	20811.1	18412.7	18318.3	17545.8	19187.1	20466.3	22660.5
57.5°	22352.2	22344.5	22691.3	23269.2	23461.9	21225.3	21146.3	20395.0	22406.2	23367.5	26091.4
60°	23315.5	23328.9	24188.1	25500.0	26293.7	24727.5	24692.8	24122.6	25532.8	26076.0	28782.6
62.5°	23450.3	23693.0	25172.5	27430.3	28944.5	28819.2	28896.3	27480.4	28329.9	28237.5	30791.9
65°	21899.5	22219.3	24897.0	28014.0	31579.8	33294.3	33365.6	30857.4	30535.7	30084.9	31510.4
67.5°	18720.9	19194.8	22103.7	26744.5	32448.6	36602.0	36702.1	33475.4	32365.8	30711.0	29780.5
70°	13623.6	14149.6	17077.7	22841.6	30899.8	37659.6	37773.2	34633.2	32435.1	28929.0	25423.0
72.5°	8229.7	8641.9	11055.7	16815.7	26079.9	35733.2	35935.4	33165.2	29612.9	24504.1	18773.0
75°	3614.0	3883.7	5345.8	9689.9	18670.9	29564.8	29817.1	28387.7	24061.0	17807.8	11096.2
77.5°	1539.2	1616.3	2192.3	4209.2	10554.9	20202.4	20549.1	20741.8	16324.5	9689.9	4688.9
80°	959.4	990.2	1240.6	1905.2	4939.3	11346.6	11720.3	12203.9	8106.4	3561.9	1637.5
82.5°	583.7	618.4	824.5	1152.0	2571.8	5143.5	5322.7	5663.7	3145.8	1539.2	847.6
85°	350.6	375.7	504.7	728.2	1464.1	2022.7	2020.8	2234.6	1481.4	990.2	446.9
87.5°	167.6	186.9	269.7	377.6	737.8	759.0	710.8	805.2	899.6	649.2	225.4
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°	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0	5735.0
2.5°	5731.1	5723.4	5698.3	5679.1	5675.2	5663.7	5654.0	5659.8	5667.5	5669.5	5669.5
5°	5729.2	5708.0	5675.2	5661.7	5679.1	5702.2	5731.1	5769.6	5792.7	5810.1	5821.6
7.5°	5821.6	5781.2	5744.6	5736.9	5771.6	5833.2	5898.7	5979.6	6035.5	6074.0	6081.7
10°	5975.8	5925.7	5889.1	5896.8	5958.4	6047.0	6139.5	6243.5	6328.3	6380.3	6384.2
12.5°	6153.0	6104.8	6070.1	6102.9	6205.0	6312.9	6409.2	6499.7	6576.8	6628.8	6628.8
15°	6357.2	6322.5	6282.1	6357.2	6495.9	6592.2	6632.7	6677.0	6719.4	6757.9	6750.2
17.5°	6553.7	6520.9	6499.7	6588.4	6732.8	6777.1	6750.2	6717.4	6717.4	6738.6	6742.5
20°	6723.2	6694.3	6707.8	6794.5	6869.6	6823.4	6723.2	6619.2	6576.8	6588.4	6599.9
22.5°	6871.5	6858.1	6898.5	6939.0	6885.0	6723.2	6538.3	6397.6	6345.6	6341.8	6345.6
25°	7044.9	7043.0	7093.1	7019.9	6781.0	6482.4	6233.9	6097.1	6068.2	6091.3	6129.9
27.5°	7260.7	7281.9	7306.9	7039.1	6569.1	6118.3	5865.9	5771.6	5800.4	5856.3	5892.9
30°	7536.2	7593.9	7540.0	6991.0	6264.7	5702.2	5461.4	5434.4	5513.4	5592.4	5630.9
32.5°	7803.9	7894.5	7763.5	6865.8	5871.7	5261.1	5074.2	5066.5	5162.8	5239.9	5293.8
35°	8019.7	8198.8	7931.1	6617.3	5417.1	4854.6	4717.8	4665.8	4700.5	4791.0	4852.7
37.5°	8300.9	8599.5	8046.7	6237.7	4923.9	4519.4	4359.5	4240.0	4209.2	4245.8	4276.7
40°	8815.3	9210.2	8100.6	5708.0	4442.3	4184.2	4022.4	3847.1	3725.7	3637.1	3639.0
42.5°	9655.2	10005.8	8065.9	5064.6	3997.3	3856.7	3673.7	3471.4	3274.9	3074.6	3059.2
45°	11019.1	11188.6	7961.9	4382.6	3606.3	3513.8	3342.3	3140.1	2878.1	2650.8	2629.6
47.5°	13201.8	12826.1	7800.1	3787.3	3261.4	3222.9	3064.9	2831.8	2554.4	2371.4	2356.0
50°	16178.1	15189.8	7721.1	3313.4	2957.1	2968.6	2839.5	2593.0	2331.0	2196.1	2180.7
52.5°	19738.1	17942.7	7873.3	2947.4	2712.4	2752.9	2656.5	2425.4	2205.8	2099.8	2084.4
55°	23431.0	20793.8	8037.0	2681.6	2481.2	2560.2	2527.5	2336.7	2138.3	2040.1	2026.6
57.5°	26592.3	22922.5	7709.5	2465.8	2275.1	2398.4	2427.3	2280.9	2103.7	2015.0	1999.6
60°	28582.3	23779.7	6850.3	2263.5	2111.4	2269.3	2369.5	2265.5	2117.1	2109.4	2097.9
62.5°	29526.2	23704.6	5561.6	2103.7	2009.3	2213.5	2411.9	2352.2	2271.2	2340.6	2346.4
65°	29102.4	22571.9	4141.8	1997.7	1936.1	2234.6	2539.0	2515.9	2315.6	2384.9	2394.5
67.5°	26313.0	19869.1	3066.9	1905.2	1855.1	2294.4	2770.2	2569.8	2228.9	2279.0	2248.1
70°	21267.7	15752.3	2365.6	1801.2	1772.3	2286.7	2874.2	2537.1	2134.5	2146.0	2063.2
72.5°	14665.8	10741.7	1924.5	1704.9	1652.9	2084.4	2801.0	2456.2	2055.5	1966.9	1857.1
75°	7975.4	5765.8	1635.5	1604.7	1442.9	1830.1	2666.2	2398.4	1984.2	1866.7	1805.1
77.5°	3138.1	2392.6	1419.8	1467.9	1261.8	1616.3	2515.9	2288.6	1886.0	1731.9	1701.0
80°	1281.1	1221.4	1177.0	1269.5	1084.6	1414.0	2334.8	2159.5	1768.5	1606.6	1545.0
82.5°	726.3	759.0	915.0	1001.7	880.4	1302.3	2248.1	2055.5	1627.8	1439.0	1365.8
85°	371.8	445.0	637.6	718.6	647.3	1107.7	2070.9	1799.3	1306.1	1101.9	1107.7
87.5°	179.2	248.5	402.6	450.8	420.0	801.4	1546.9	1304.2	1017.1	805.2	780.2
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)