

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: McGRAW-EDISON

Report Number: P522932

Luminaire Tested: **GALN-SA9D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 70182 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

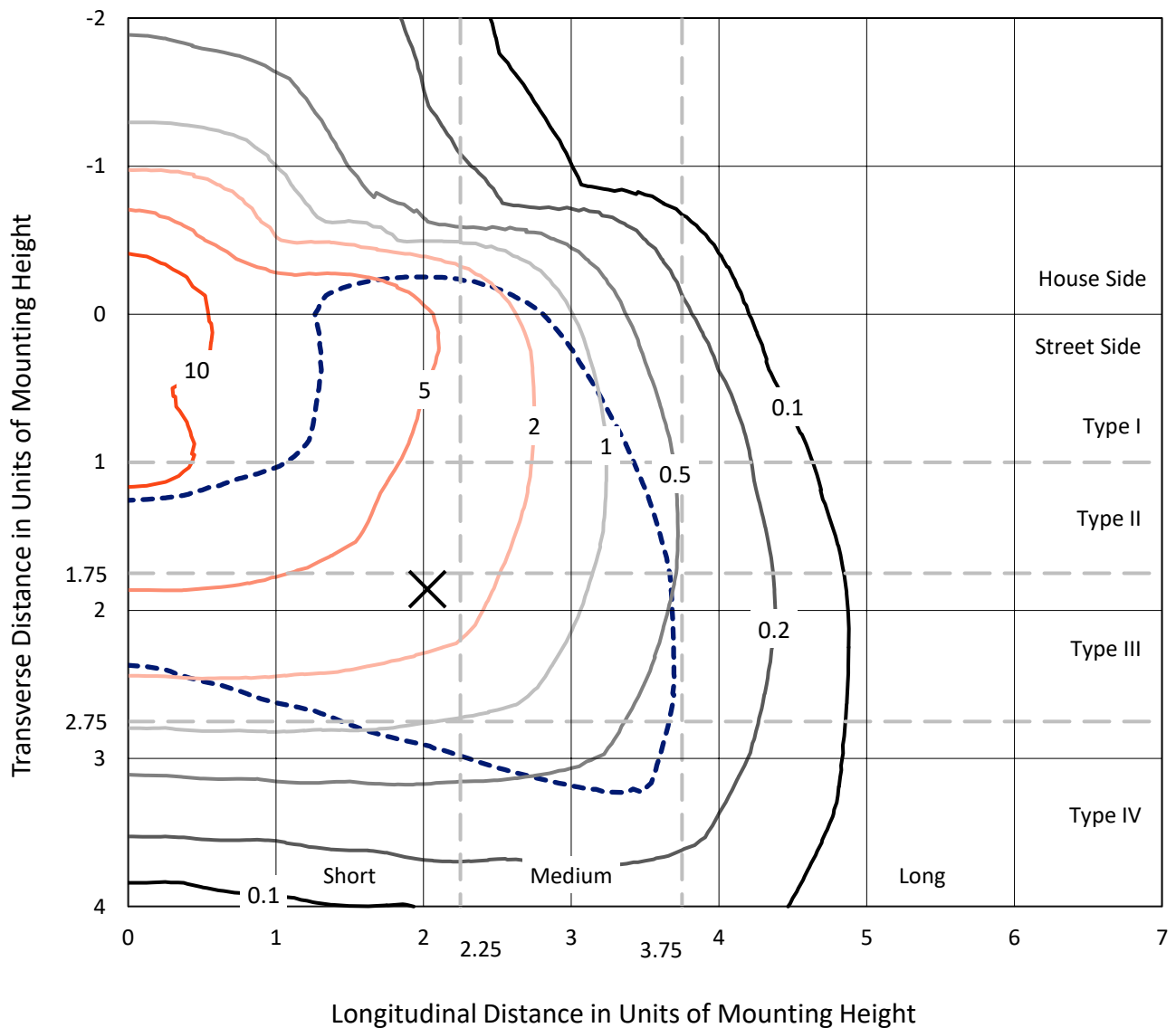
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

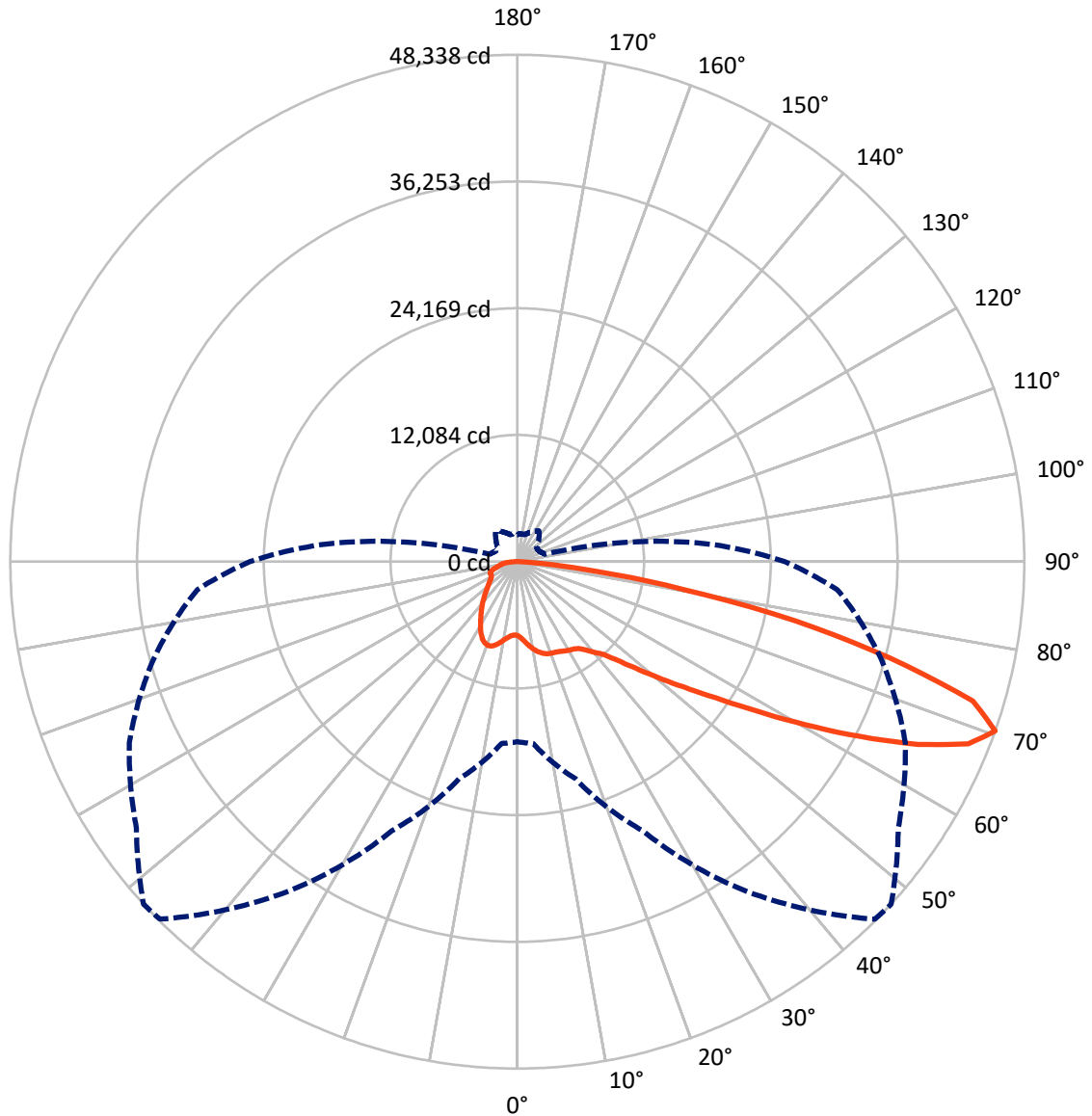
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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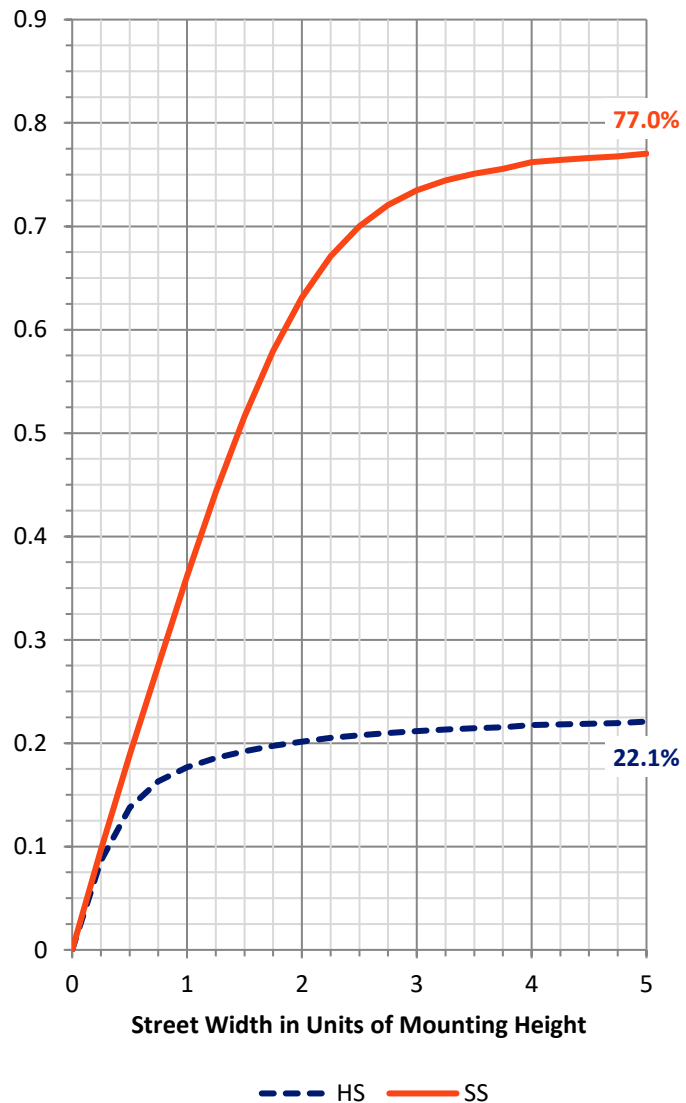
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15890.6	0.0	15890.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	54291.4	0.0	54291.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	70182.0	0.0	70182.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.2	1.0
10°-20°	2427.9	3.5
20°-30°	4037.5	5.8
30°-40°	5722.6	8.2
40°-50°	8447.7	12.0
50°-60°	14631.8	20.8
60°-70°	20667.9	29.4
70°-80°	11881.0	16.9
80°-90°	1639.3	2.3
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°	70182.0	100.0
0°-180°	70182.0	100.0



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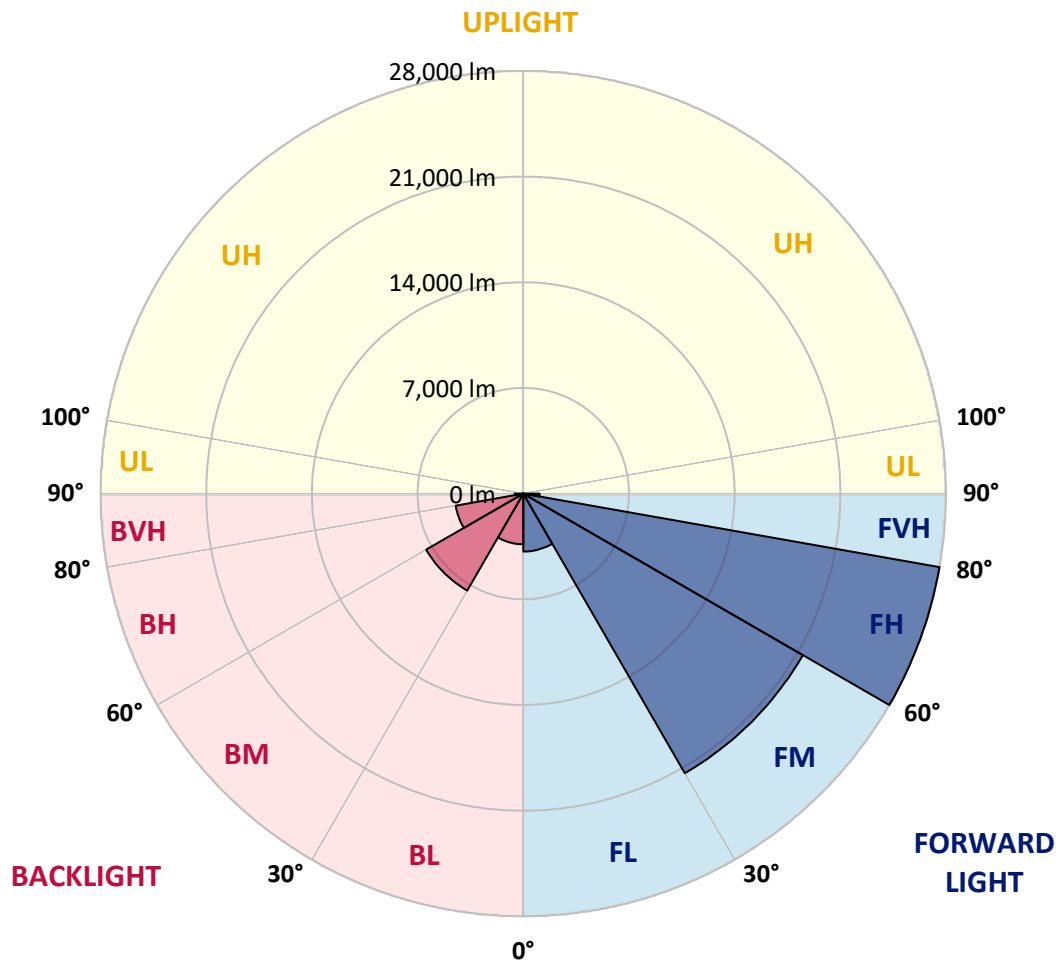
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3837.8	5.5			
FM	(30°-60°)	21383.1	30.5			
FH	(60°-80°)	27999.7	39.9			G5
FVH	(80°-90°)	1070.8	1.5			G5
BL	(0°-30°)	3353.8	4.8	B4/5000		
BM	(30°-60°)	7419.0	10.6	B4/8500		
BH	(60°-80°)	4549.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	568.5	0.8			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°	47.5°	55°	65°	75°	85°
0°	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4
2.5°	7499.9	7473.6	7469.8	7413.5	7383.4	7327.1	7304.6	7252.0	7188.1	7124.3	7064.2
5°	8089.5	8089.5	8063.2	7984.3	7860.4	7732.7	7676.4	7575.0	7394.7	7248.2	7124.3
7.5°	8694.1	8701.6	8649.1	8532.6	8356.1	8149.6	8097.0	7946.8	7691.4	7477.3	7293.3
10°	9216.1	9216.1	9144.8	8987.1	8765.5	8540.1	8487.6	8318.6	8033.1	7766.5	7526.1
12.5°	9614.2	9614.2	9520.3	9313.8	9073.4	8870.6	8810.5	8649.1	8382.4	8085.7	7781.5
15°	9873.4	9854.6	9749.4	9516.6	9283.7	9107.2	9065.9	8930.7	8686.6	8386.2	8044.4
17.5°	9884.6	9877.1	9775.7	9580.4	9377.6	9257.5	9231.2	9141.0	8949.5	8664.1	8303.5
20°	9666.8	9681.8	9614.2	9475.3	9377.6	9325.1	9313.8	9283.7	9148.5	8881.9	8521.4
22.5°	9434.0	9460.3	9396.4	9321.3	9313.8	9366.4	9373.9	9381.4	9295.0	9035.9	8705.4
25°	9377.6	9396.4	9332.6	9265.0	9306.3	9445.2	9475.3	9505.3	9437.7	9219.9	8923.2
27.5°	9663.1	9648.0	9524.1	9377.6	9403.9	9591.7	9633.0	9666.8	9633.0	9445.2	9193.6
30°	10470.5	10421.7	10173.8	9745.7	9610.5	9741.9	9783.2	9877.1	9877.1	9738.2	9486.5
32.5°	11822.5	11728.6	11274.2	10432.9	9963.5	9884.6	9925.9	10079.9	10158.8	10049.9	9775.7
35°	13463.7	13366.0	12716.3	11585.9	10609.5	10170.1	10158.8	10331.5	10541.9	10297.7	9941.0
37.5°	15112.4	15011.0	14229.8	12960.4	11552.1	10770.9	10703.3	10763.4	10853.6	10406.7	10170.1
40°	16761.1	16640.9	15957.4	14496.5	12705.1	11567.1	11390.6	11120.2	11082.7	10763.4	10613.2
42.5°	18394.7	18285.8	17940.3	16220.3	14087.1	12344.5	12074.1	11608.4	11751.1	11559.6	11428.2
45°	20043.4	20050.9	19682.9	18154.4	15754.6	13779.1	13414.9	12686.3	13024.3	12952.9	13028.0
47.5°	21504.3	21485.6	21354.1	20032.2	17823.9	15626.9	15157.4	14312.4	14890.8	15153.7	15728.3
50°	22920.2	22908.9	22916.4	22161.6	20227.4	17823.9	17305.6	16419.3	17722.5	18635.1	19664.1
52.5°	24948.2	25012.0	24557.6	24358.6	23149.3	20419.0	19848.1	18931.8	21068.7	22507.1	24516.3
55°	26983.7	26931.1	26574.3	26780.9	26206.3	23491.0	22893.9	22165.3	24794.2	26367.8	29387.2
57.5°	28181.7	28200.5	28564.8	29575.0	29980.6	27321.7	26780.9	26217.6	28981.6	30097.0	33721.2
60°	29259.6	29345.9	30393.7	32301.6	33401.9	32027.4	31546.7	30998.4	32823.6	33266.7	37484.2
62.5°	29597.6	29864.2	31693.2	34547.4	36736.9	37337.8	36740.6	35531.3	36481.5	36308.7	40034.3
65°	27911.3	28275.6	31554.2	35388.6	39715.0	42377.7	41998.4	39752.6	39598.6	38558.3	40451.1
67.5°	23472.2	23836.5	28046.5	33623.5	40946.9	46741.7	46362.4	42832.1	41491.4	38768.6	37296.5
70°	17174.2	17403.3	21429.2	28309.4	38471.9	48206.4	48337.8	44334.4	40815.4	35910.7	30622.8
72.5°	9895.9	10402.9	13223.3	19915.7	31430.3	44503.4	45416.0	41209.7	36541.6	29958.1	21410.4
75°	4255.0	4266.3	6114.0	10985.0	21286.5	35771.7	36654.3	34160.6	28696.2	20715.7	11431.9
77.5°	2024.2	2061.8	2689.0	4904.8	11717.3	24715.3	27096.4	24133.2	18353.4	9952.2	4318.9
80°	1314.4	1340.7	1644.9	2433.6	5746.0	14331.2	15991.2	13921.9	8097.0	3556.5	1862.8
82.5°	796.2	803.7	1100.4	1487.2	3162.2	6489.6	7650.1	6042.7	3455.1	2129.4	1096.6
85°	484.5	488.2	668.5	920.1	1919.1	2242.1	2302.2	2283.4	2028.0	1393.3	585.9
87.5°	232.8	240.4	345.5	435.6	754.9	694.8	657.2	762.4	957.7	751.1	251.6
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°	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4	7045.4
2.5°	7037.9	7026.7	7000.4	6989.1	6981.6	6985.3	6981.6	6981.6	6985.3	6985.3	6985.3
5°	7071.7	7052.9	7011.6	7011.6	7034.2	7086.7	7135.6	7173.1	7214.4	7210.7	7210.7
7.5°	7218.2	7184.4	7135.6	7150.6	7206.9	7289.5	7375.9	7458.5	7541.2	7548.7	7544.9
10°	7432.3	7398.5	7345.9	7364.7	7454.8	7578.7	7687.6	7807.8	7897.9	7924.2	7916.7
12.5°	7676.4	7608.8	7563.7	7616.3	7759.0	7924.2	8029.4	8119.5	8183.4	8220.9	8205.9
15°	7924.2	7860.4	7807.8	7916.7	8089.5	8243.5	8296.0	8311.1	8322.3	8359.9	8352.4
17.5°	8164.6	8078.2	8059.4	8202.1	8367.4	8435.0	8404.9	8341.1	8292.3	8322.3	8318.6
20°	8378.7	8311.1	8303.5	8446.3	8510.1	8446.3	8318.6	8205.9	8119.5	8127.0	8123.3
22.5°	8581.5	8528.9	8536.4	8596.5	8495.1	8277.3	8066.9	7913.0	7819.1	7837.9	7849.1
25°	8806.8	8754.2	8773.0	8675.3	8341.1	7961.8	7657.6	7526.1	7488.6	7526.1	7552.4
27.5°	9099.7	9065.9	9054.7	8679.1	8066.9	7496.1	7150.6	7101.8	7135.6	7218.2	7259.5
30°	9415.2	9415.2	9355.1	8615.3	7691.4	6936.5	6636.1	6643.6	6760.0	6876.4	6917.7
32.5°	9719.4	9783.2	9595.5	8442.5	7206.9	6392.0	6162.9	6170.4	6271.8	6414.5	6452.1
35°	9971.0	10155.0	9802.0	8127.0	6636.1	5933.8	5761.0	5659.6	5663.4	5772.3	5802.3
37.5°	10316.5	10658.3	9922.2	7657.6	6027.7	5543.2	5347.9	5171.4	5055.0	5009.9	5009.9
40°	10917.4	11420.7	9952.2	6962.8	5453.1	5171.4	4893.5	4683.2	4457.8	4255.0	4217.5
42.5°	11935.2	12569.9	9892.1	6162.9	4934.8	4762.0	4491.6	4232.5	3920.8	3635.4	3612.8
45°	13737.8	14064.6	9730.7	5332.9	4472.9	4367.7	4104.8	3823.2	3492.7	3237.3	3218.5
47.5°	16625.9	16163.9	9516.6	4596.8	4052.2	4022.2	3819.4	3492.7	3162.2	2985.7	2966.9
50°	20843.4	19468.8	9486.5	4063.5	3714.2	3729.3	3564.0	3263.6	2974.4	2827.9	2805.4
52.5°	25920.9	23461.0	9685.6	3688.0	3417.6	3473.9	3391.3	3113.4	2858.0	2734.0	2711.5
55°	30848.2	27051.3	9805.8	3395.0	3139.6	3244.8	3256.1	3023.2	2790.4	2666.4	2651.4
57.5°	34847.8	29755.3	9272.5	3128.4	2899.3	3060.8	3143.4	2970.6	2756.6	2662.7	2647.7
60°	37630.7	31032.2	7755.2	2891.8	2722.8	2914.3	3102.1	2974.4	2839.2	2850.5	2858.0
62.5°	38517.0	30465.1	5817.4	2715.3	2602.6	2865.5	3169.7	3128.4	2989.4	3075.8	3090.8
65°	37048.6	28121.6	4217.5	2576.3	2497.4	2899.3	3372.5	3241.0	2936.8	3000.7	3000.7
67.5°	32132.6	24227.1	3282.4	2448.6	2377.3	2963.1	3575.3	3229.8	2812.9	2888.0	2820.4
70°	25489.0	18740.2	2734.0	2305.9	2249.6	2869.2	3594.1	3113.4	2666.4	2681.5	2553.8
72.5°	16915.0	12322.0	2351.0	2170.7	2054.3	2580.1	3440.1	2963.1	2523.7	2437.4	2309.7
75°	8288.5	6144.1	2050.5	2001.7	1798.9	2245.8	3229.8	2820.4	2369.8	2234.6	2163.2
77.5°	3211.0	2613.9	1750.1	1787.6	1566.1	1979.2	2951.9	2617.6	2167.0	1982.9	1926.6
80°	1558.6	1483.4	1434.6	1491.0	1288.2	1686.2	2696.5	2441.1	1979.2	1776.4	1693.8
82.5°	968.9	916.4	1100.4	1160.5	991.5	1539.8	2557.5	2290.9	1742.6	1472.2	1404.6
85°	492.0	525.8	736.1	792.4	709.8	1224.3	2106.9	1720.0	1258.1	1044.0	1051.6
87.5°	187.8	251.6	386.8	416.9	379.3	646.0	1160.5	1002.7	807.4	548.3	507.0
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)