

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: P522896

Luminaire Tested: **GALN-SA8D-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522896
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-SA8D-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 62513 lumens
Efficiency: N/A
Efficacy: 126.8 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

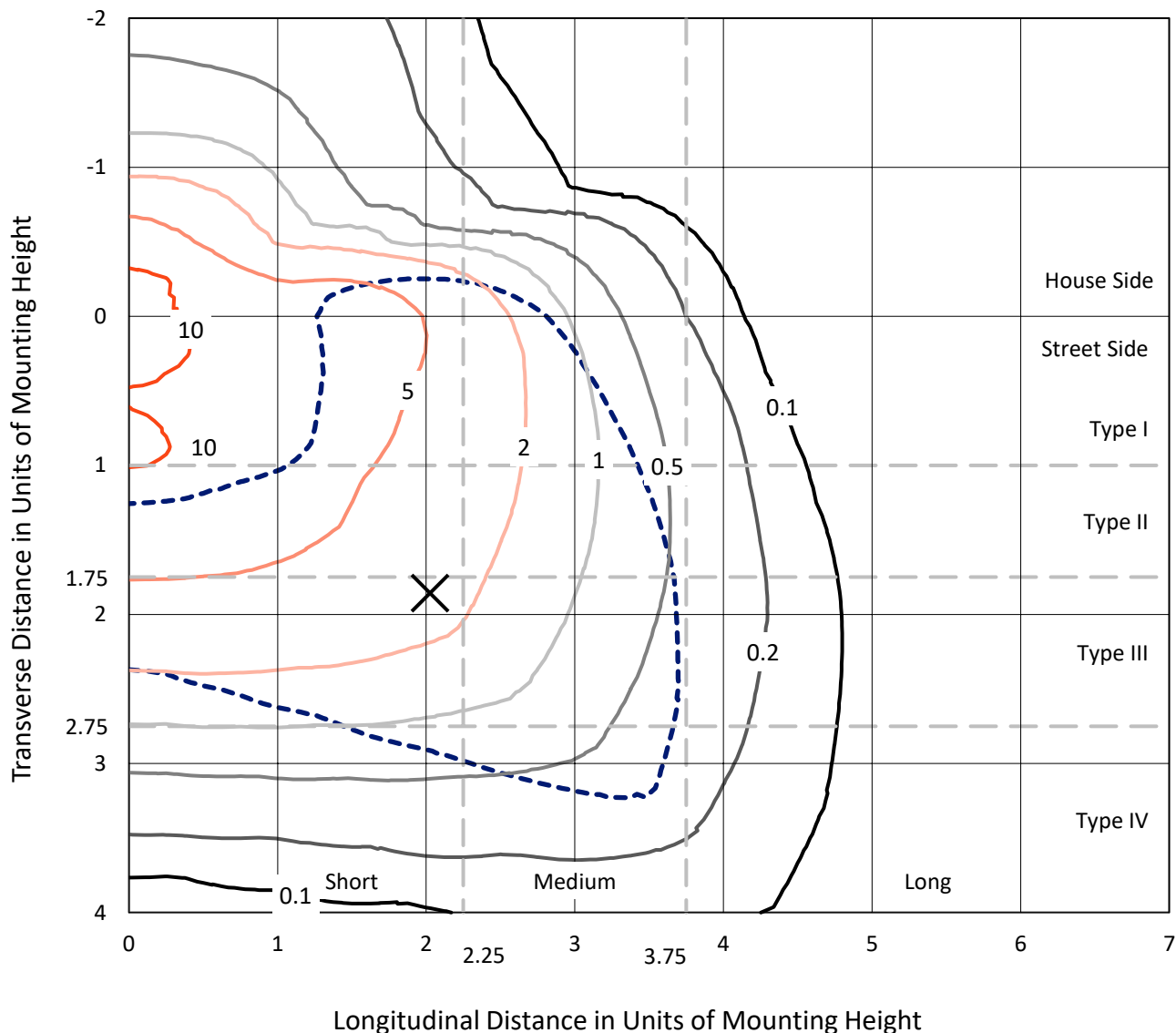
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

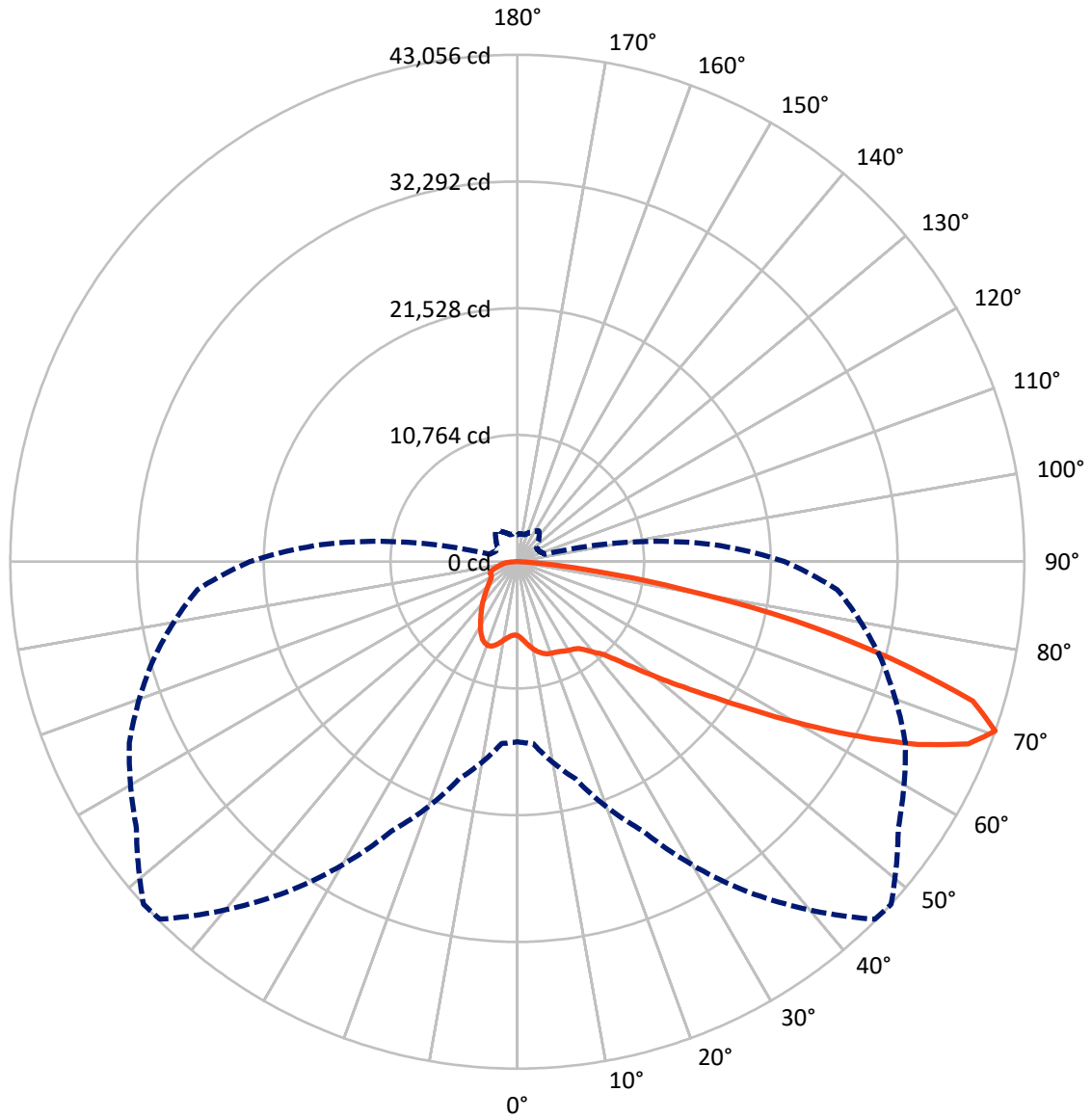
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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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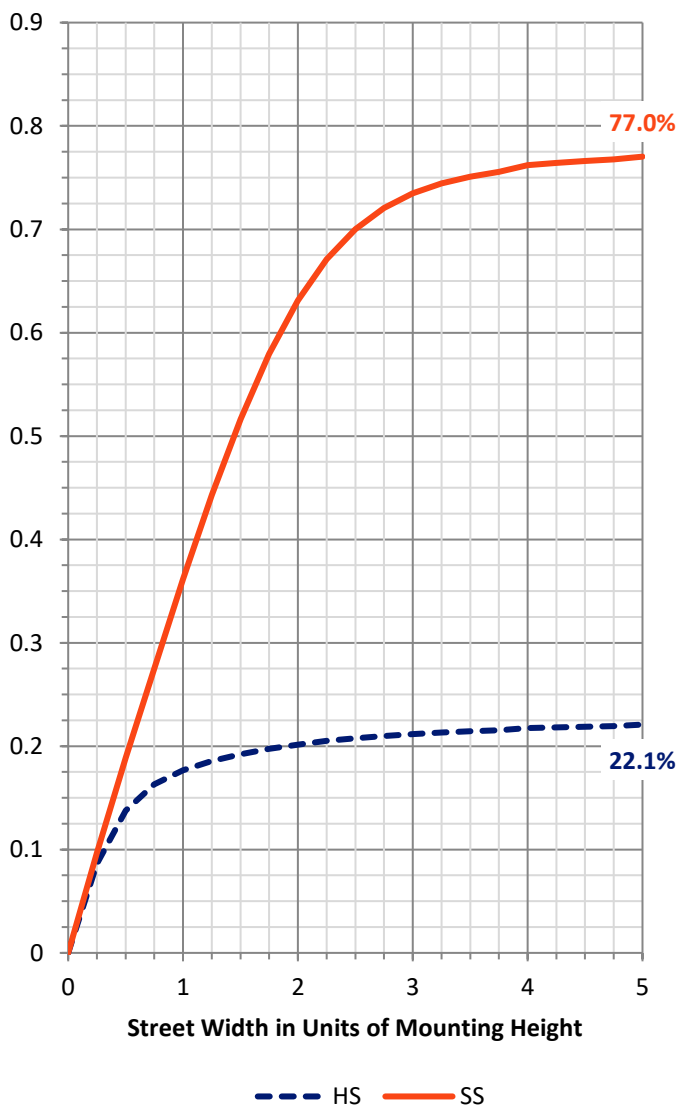
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14154.2	0.0	14154.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	48358.9	0.0	48358.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	62513.0	0.0	62513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.9	1.0
10°-20°	2162.6	3.5
20°-30°	3596.3	5.8
30°-40°	5097.2	8.2
40°-50°	7524.6	12.0
50°-60°	13033.0	20.8
60°-70°	18409.5	29.4
70°-80°	10582.8	16.9
80°-90°	1460.2	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°	62513.0	100.0
0°-180°	62513.0	100.0

Coefficient of Utilization



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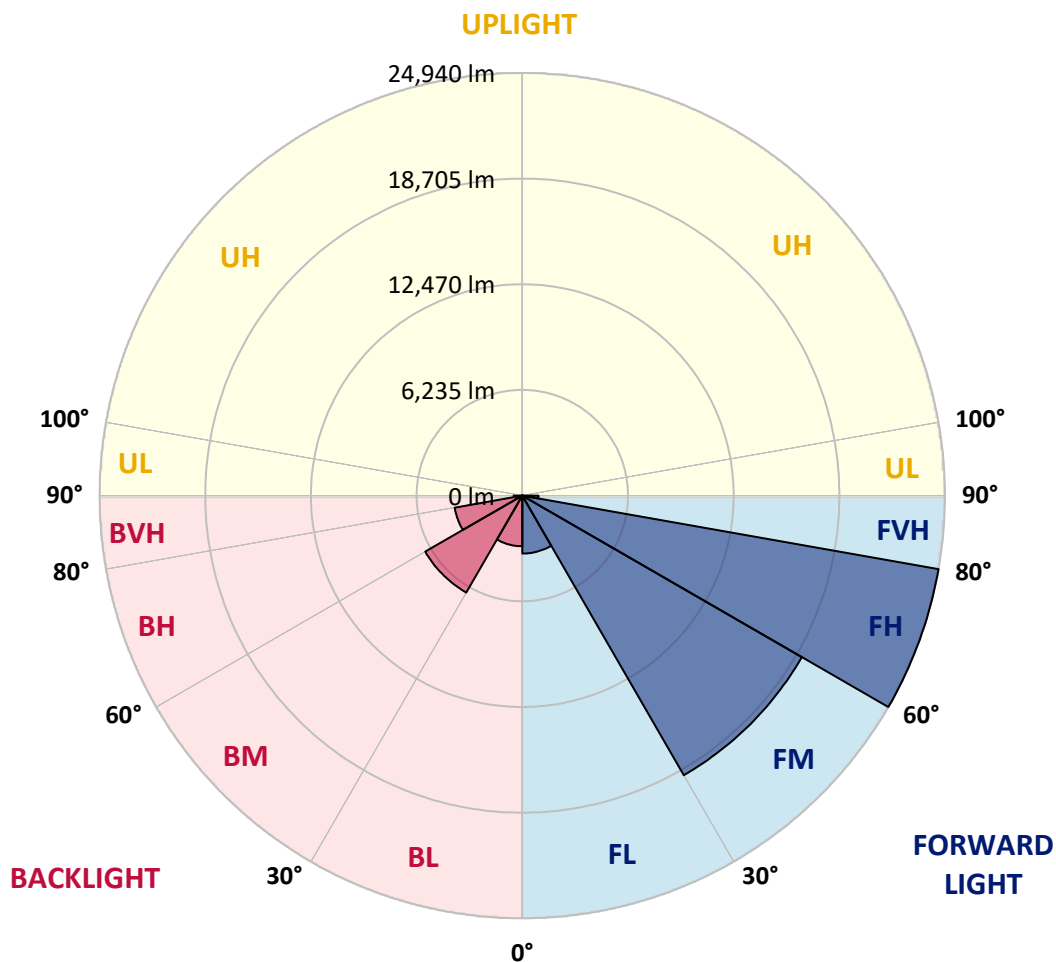
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3418.4	5.5			
FM	(30°-60°)	19046.5	30.5			
FH	(60°-80°)	24940.1	39.9			G5
FVH	(80°-90°)	953.8	1.5			G5
BL	(0°-30°)	2987.3	4.8	B4/5000		
BM	(30°-60°)	6608.3	10.6	B4/8500		
BH	(60°-80°)	4052.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	506.3	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°	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6
2.5°	6680.3	6656.9	6653.6	6603.4	6576.6	6526.4	6506.4	6459.5	6402.7	6345.8	6292.3
5°	7205.5	7205.5	7182.1	7111.8	7001.5	6887.7	6837.5	6747.2	6586.7	6456.2	6345.8
7.5°	7744.1	7750.8	7703.9	7600.2	7443.0	7259.0	7212.2	7078.4	6850.9	6660.2	6496.3
10°	8209.1	8209.1	8145.5	8005.0	7807.6	7606.9	7560.1	7409.6	7155.3	6917.8	6703.7
12.5°	8563.7	8563.7	8480.0	8296.0	8081.9	7901.3	7847.8	7703.9	7466.4	7202.2	6931.2
15°	8794.5	8777.7	8684.1	8476.7	8269.3	8112.1	8075.3	7954.8	7737.4	7469.8	7165.4
17.5°	8804.5	8797.8	8707.5	8533.5	8352.9	8245.9	8222.4	8142.2	7971.6	7717.3	7396.2
20°	8610.5	8623.9	8563.7	8439.9	8352.9	8306.1	8296.0	8269.3	8148.9	7911.3	7590.2
22.5°	8403.1	8426.5	8369.6	8302.7	8296.0	8342.9	8349.6	8356.3	8279.3	8048.5	7754.1
25°	8352.9	8369.6	8312.8	8252.6	8289.3	8413.1	8439.9	8466.6	8406.4	8212.4	7948.1
27.5°	8607.1	8593.8	8483.4	8352.9	8376.3	8543.6	8580.4	8610.5	8580.4	8413.1	8189.0
30°	9326.4	9282.9	9062.1	8680.7	8560.3	8677.4	8714.2	8797.8	8797.8	8674.0	8449.9
32.5°	10530.6	10447.0	10042.2	9292.9	8874.8	8804.5	8841.3	8978.5	9048.7	8951.7	8707.5
35°	11992.5	11905.5	11326.8	10319.9	9450.1	9058.7	9048.7	9202.6	9389.9	9172.5	8854.7
37.5°	13461.0	13370.7	12674.9	11544.2	10289.8	9594.0	9533.8	9587.3	9667.6	9269.5	9058.7
40°	14929.5	14822.5	14213.7	12912.4	11316.7	10303.1	10145.9	9905.1	9871.6	9587.3	9453.5
42.5°	16384.7	16287.7	15979.9	14447.8	12547.8	10995.6	10754.7	10339.9	10467.1	10296.5	10179.4
45°	17853.2	17859.9	17532.1	16170.6	14033.0	12273.5	11949.0	11300.0	11601.1	11537.5	11604.4
47.5°	19154.5	19137.8	19020.7	17843.2	15876.2	13919.3	13501.1	12748.5	13263.6	13497.8	14009.6
50°	20415.6	20405.6	20412.3	19739.9	18017.1	15876.2	15414.6	14625.1	15785.9	16598.8	17515.3
52.5°	22222.0	22278.9	21874.1	21696.8	20619.7	18187.7	17679.3	16863.0	18766.4	20047.6	21837.3
55°	24035.1	23988.3	23670.5	23854.5	23342.6	20924.1	20392.2	19743.2	22084.9	23486.5	26176.0
57.5°	25102.2	25118.9	25443.4	26343.3	26704.6	24336.2	23854.5	23352.7	25814.7	26808.3	30036.3
60°	26062.3	26139.2	27072.5	28771.9	29752.0	28527.7	28099.5	27611.1	29236.9	29631.6	33388.2
62.5°	26363.3	26600.9	28230.0	30772.3	32722.5	33257.8	32725.9	31648.7	32495.1	32341.2	35659.6
65°	24861.4	25185.8	28106.2	31521.6	35375.3	37747.0	37409.1	35408.7	35271.6	34344.9	36030.9
67.5°	20907.4	21231.8	24981.8	29949.4	36472.5	41634.1	41296.2	38151.7	36957.5	34532.3	33221.0
70°	15297.5	15501.6	19087.6	25215.9	34268.0	42938.7	43055.8	39489.8	36355.4	31986.6	27276.6
72.5°	8814.5	9266.1	11778.4	17739.5	27995.8	39640.4	40453.2	36706.6	32548.6	26684.5	19070.9
75°	3790.1	3800.1	5445.9	9784.6	18960.5	31862.8	32648.9	30427.7	25560.5	18452.0	10182.7
77.5°	1803.1	1836.5	2395.1	4368.8	10437.0	22014.6	24135.5	21496.1	16347.9	8864.7	3847.0
80°	1170.8	1194.2	1465.2	2167.7	5118.1	12765.2	14243.8	12400.6	7212.2	3167.9	1659.2
82.5°	709.2	715.9	980.1	1324.7	2816.6	5780.5	6814.1	5382.4	3077.6	1896.7	976.8
85°	431.5	434.9	595.4	819.6	1709.4	1997.1	2050.6	2033.9	1806.4	1241.1	521.8
87.5°	207.4	214.1	307.8	388.0	672.4	618.9	585.4	679.1	853.0	669.0	224.1
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°	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6	6275.6
2.5°	6268.9	6258.8	6235.4	6225.4	6218.7	6222.0	6218.7	6218.7	6222.0	6222.0	6222.0
5°	6299.0	6282.2	6245.4	6245.4	6265.5	6312.3	6355.8	6389.3	6426.1	6422.7	6422.7
7.5°	6429.4	6399.3	6355.8	6369.2	6419.4	6493.0	6569.9	6643.5	6717.1	6723.8	6720.5
10°	6620.1	6590.0	6543.2	6559.9	6640.2	6750.6	6847.6	6954.6	7034.9	7058.3	7051.6
12.5°	6837.5	6777.3	6737.2	6784.0	6911.1	7058.3	7152.0	7232.3	7289.1	7322.6	7309.2
15°	7058.3	7001.5	6954.6	7051.6	7205.5	7342.7	7389.5	7402.9	7412.9	7446.4	7439.7
17.5°	7272.4	7195.5	7178.8	7305.9	7453.1	7513.3	7486.5	7429.6	7386.2	7412.9	7409.6
20°	7463.1	7402.9	7396.2	7523.3	7580.2	7523.3	7409.6	7309.2	7232.3	7239.0	7235.6
22.5°	7643.7	7596.9	7603.6	7657.1	7566.8	7372.8	7185.4	7048.3	6964.7	6981.4	6991.4
25°	7844.4	7797.6	7814.3	7727.4	7429.6	7091.8	6820.8	6703.7	6670.3	6703.7	6727.2
27.5°	8105.4	8075.3	8065.2	7730.7	7185.4	6677.0	6369.2	6325.7	6355.8	6429.4	6466.2
30°	8386.4	8386.4	8332.8	7673.8	6850.9	6178.5	5910.9	5917.6	6021.3	6125.0	6161.8
32.5°	8657.3	8714.2	8546.9	7520.0	6419.4	5693.5	5489.4	5496.1	5586.4	5713.6	5747.0
35°	8881.4	9045.4	8730.9	7239.0	5910.9	5285.4	5131.5	5041.2	5044.5	5141.5	5168.3
37.5°	9189.2	9493.6	8838.0	6820.8	5369.0	4937.5	4763.5	4606.3	4502.6	4462.5	4462.5
40°	9724.4	10172.7	8864.7	6202.0	4857.2	4606.3	4358.8	4171.4	3970.7	3790.1	3756.6
42.5°	10631.0	11196.3	8811.2	5489.4	4395.6	4241.7	4000.8	3770.0	3492.4	3238.1	3218.1
45°	12236.7	12527.7	8667.4	4750.2	3984.1	3890.4	3656.3	3405.4	3111.0	2883.5	2866.8
47.5°	14809.1	14397.6	8476.7	4094.5	3609.4	3582.7	3402.0	3111.0	2816.6	2659.4	2642.7
50°	18565.7	17341.4	8449.9	3619.5	3308.4	3321.8	3174.6	2907.0	2649.4	2518.9	2498.8
52.5°	23088.4	20897.3	8627.2	3285.0	3044.1	3094.3	3020.7	2773.2	2545.7	2435.3	2415.2
55°	27477.3	24095.3	8734.3	3024.0	2796.6	2890.2	2900.3	2692.9	2485.5	2375.1	2361.7
57.5°	31039.9	26503.8	8259.2	2786.5	2582.5	2726.3	2799.9	2646.0	2455.4	2371.7	2358.4
60°	33518.7	27641.2	6907.8	2575.8	2425.3	2595.9	2763.1	2649.4	2529.0	2539.0	2545.7
62.5°	34308.1	27136.1	5181.7	2418.6	2318.2	2552.4	2823.3	2786.5	2662.8	2739.7	2753.1
65°	33000.2	25048.7	3756.6	2294.8	2224.5	2582.5	3004.0	2886.9	2615.9	2672.8	2672.8
67.5°	28621.3	21579.7	2923.7	2181.1	2117.5	2639.3	3184.6	2876.9	2505.5	2572.4	2512.2
70°	22703.7	16692.4	2435.3	2053.9	2003.8	2555.7	3201.3	2773.2	2375.1	2388.5	2274.7
72.5°	15066.7	10975.5	2094.1	1933.5	1829.8	2298.1	3064.2	2639.3	2248.0	2171.0	2057.3
75°	7382.8	5472.7	1826.5	1783.0	1602.3	2000.4	2876.9	2512.2	2110.8	1990.4	1926.8
77.5°	2860.1	2328.2	1558.9	1592.3	1394.9	1762.9	2629.3	2331.6	1930.2	1766.3	1716.1
80°	1388.2	1321.3	1277.9	1328.0	1147.4	1502.0	2401.8	2174.4	1762.9	1582.3	1508.7
82.5°	863.1	816.2	980.1	1033.7	883.1	1371.5	2278.1	2040.6	1552.2	1311.3	1251.1
85°	438.2	468.3	655.7	705.8	632.2	1090.5	1876.6	1532.1	1120.6	930.0	936.6
87.5°	167.3	224.1	344.6	371.3	337.9	575.4	1033.7	893.2	719.2	488.4	451.6
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)