

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: P532192

Luminaire Tested: **GALN-SA7C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38262 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

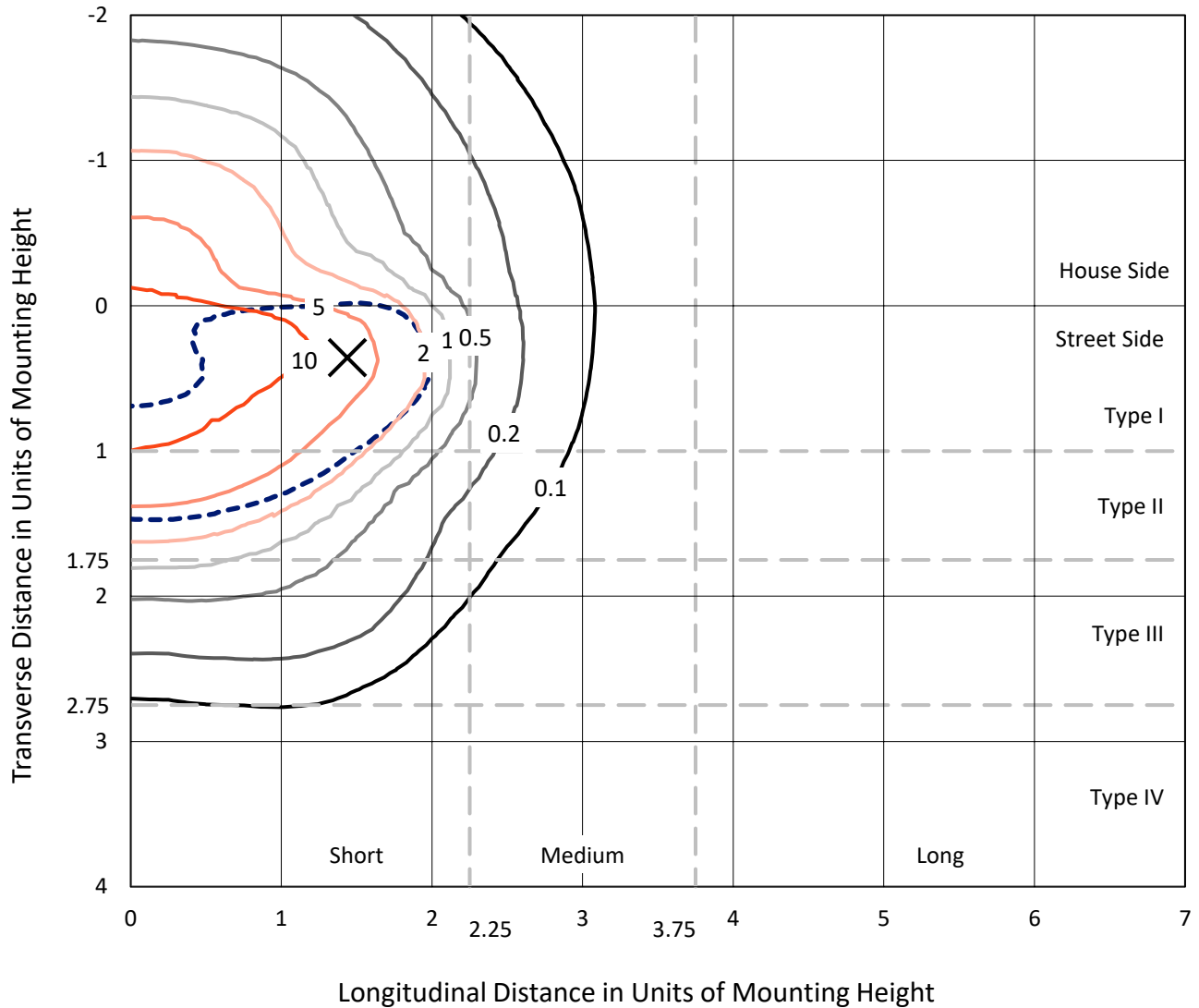
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

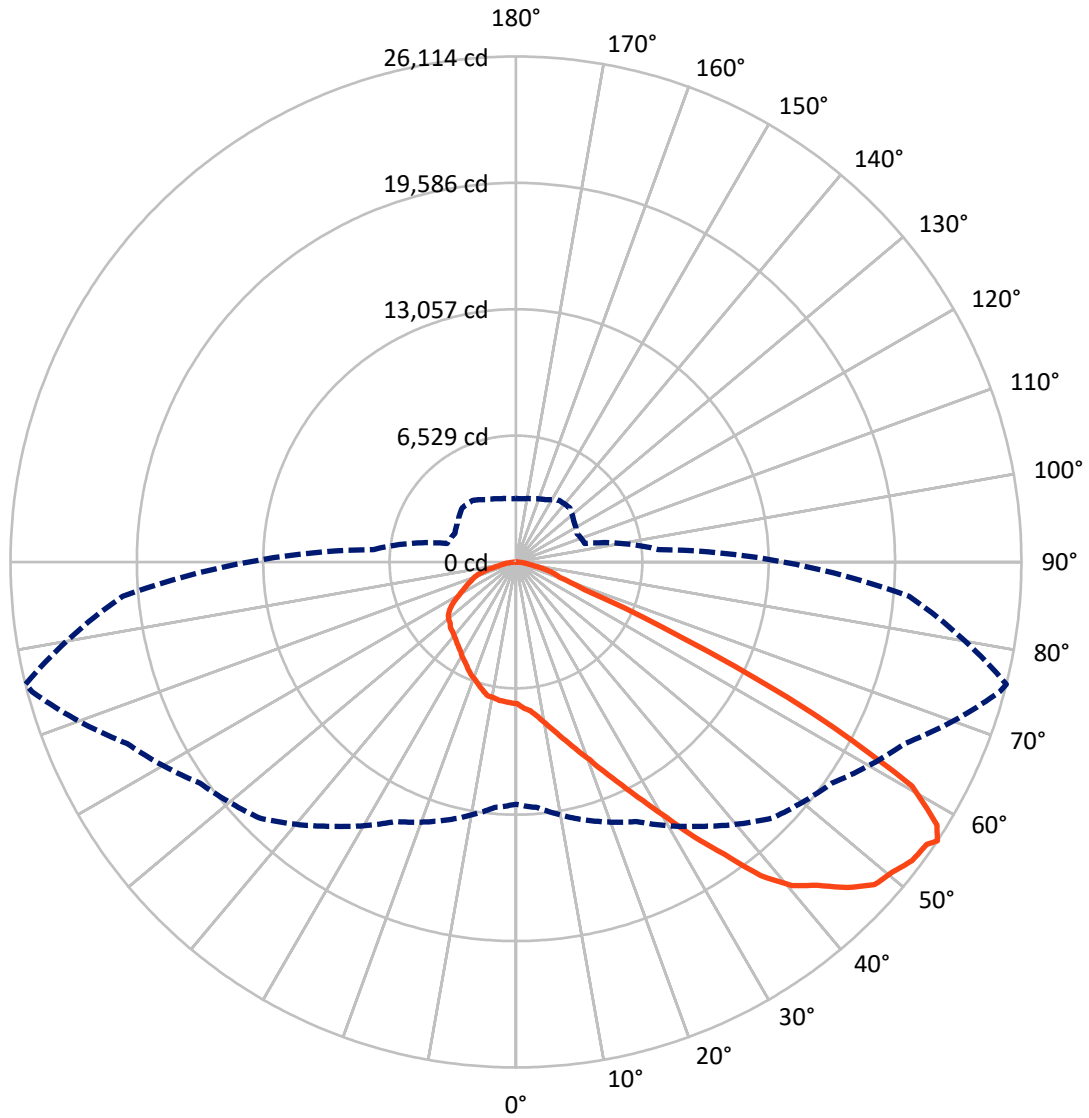
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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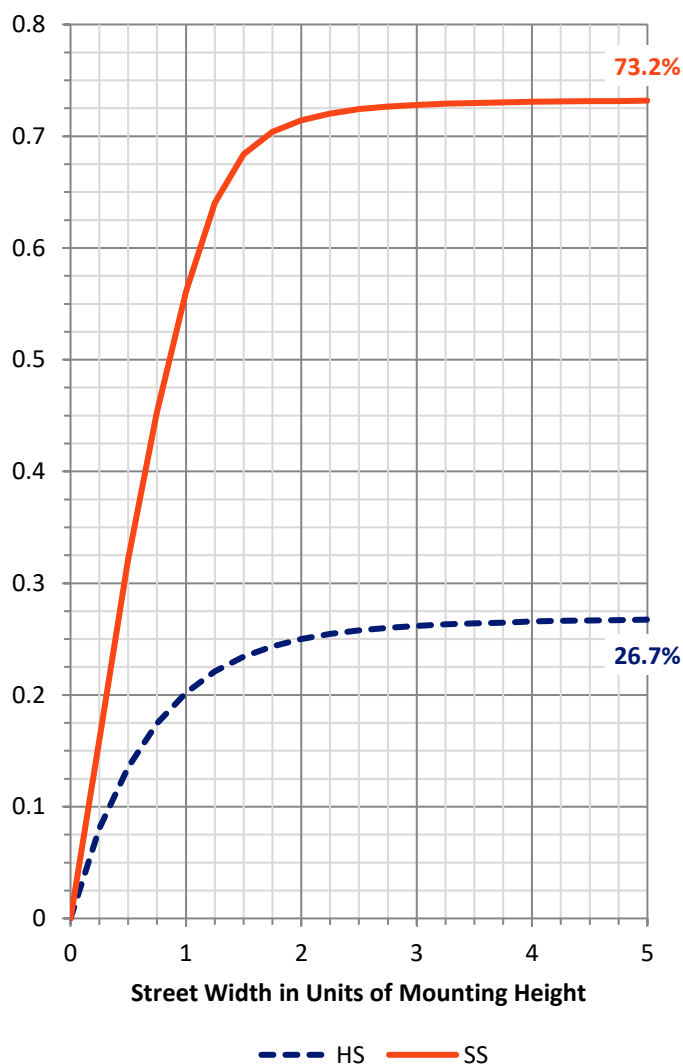
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10287.5	0.0	10287.5
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27974.5	0.0	27974.5
	% Fixture	73.1	0.0	73.1
Total	Lumens	38262.0	0.0	38262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.0	1.9
10°-20°	2280.6	6.0
20°-30°	3988.6	10.4
30°-40°	6244.9	16.3
40°-50°	9084.6	23.7
50°-60°	9984.5	26.1
60°-70°	4456.7	11.6
70°-80°	1287.3	3.4
80°-90°	208.8	0.5
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°	38262.0	100.0
0°-180°	38262.0	100.0

Coefficient of Utilization



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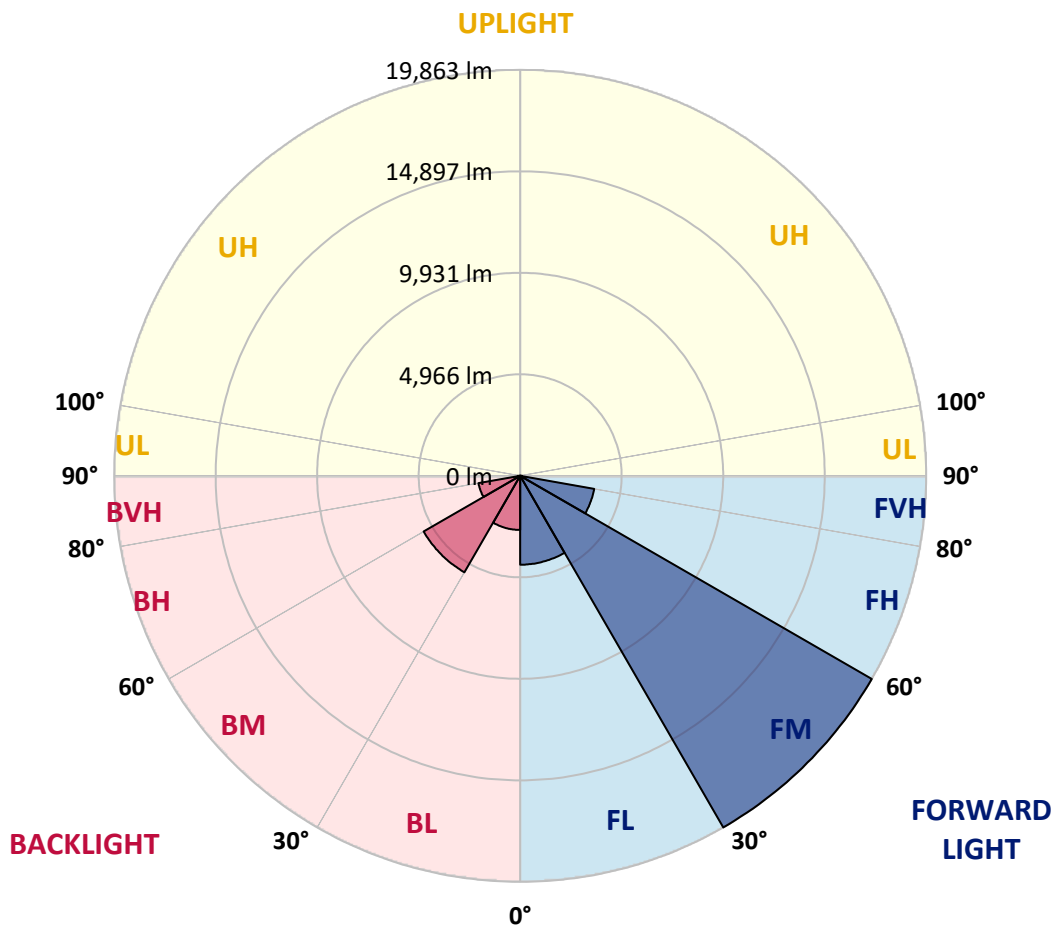
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4348.0	11.4			
FM (30°-60°)	19862.5	51.9			
FH (60°-80°)	3674.1	9.6			G2/5000
FVH (80°-90°)	89.9	0.2			G1/100
BL (0°-30°)	2647.2	6.9	B4/5000		
BM (30°-60°)	5451.5	14.2	B4/8500		
BH (60°-80°)	2069.9	5.4	B3/2500		G3/2500
BVH (80°-90°)	118.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9
2.5°	8064.9	7936.0	7926.1	7891.3	7911.2	7821.9	7727.7	7603.7	7474.7	7554.1	7365.6
5°	8630.4	8456.8	8526.2	8407.2	8422.1	8303.0	8109.6	7965.7	7807.0	7712.8	7578.9
7.5°	8828.8	8843.7	8893.3	8873.4	8774.2	8774.2	8645.3	8392.3	8114.5	8060.0	7836.8
10°	9096.6	9101.6	9047.0	9061.9	9200.8	9136.3	9022.2	8913.1	8556.0	8491.5	8094.7
12.5°	9190.9	9101.6	9190.9	9270.2	9433.9	9523.2	9498.4	9419.0	9037.1	8992.5	8412.1
15°	9205.7	9151.2	9225.6	9404.1	9548.0	9924.9	10113.4	10058.9	9552.9	9557.9	8769.3
17.5°	9136.3	9210.7	9240.5	9394.2	9726.5	10078.7	10624.3	10698.7	10282.1	10217.6	9220.6
20°	9230.5	9176.0	9215.7	9354.5	9796.0	10346.5	11060.8	11551.8	10966.5	10921.9	9686.9
22.5°	9592.6	9518.2	9508.3	9597.6	9915.0	10485.4	11522.1	12404.9	11799.8	11824.6	10267.2
25°	9875.3	9915.0	9880.3	9875.3	10073.7	10693.7	12132.1	13421.7	12930.7	12786.8	10951.7
27.5°	10361.4	10455.7	10386.2	10480.5	10435.8	11006.2	12568.6	14547.6	14150.8	13957.4	11571.7
30°	11036.0	11085.6	11021.1	11021.1	10887.2	11442.7	12965.4	15723.2	15559.5	15296.6	12300.8
32.5°	11923.8	11998.2	11869.3	11794.9	11775.0	12092.5	13679.6	16883.8	17161.6	16938.4	13268.0
35°	13099.3	13054.7	12900.9	12831.5	12563.6	13089.4	14741.1	18218.0	18947.2	18550.4	14438.5
37.5°	14136.0	14066.5	14056.6	13669.7	13734.2	14165.7	15643.8	19229.9	20678.2	20564.1	15673.6
40°	15103.2	15167.6	15271.8	15053.6	14954.4	15430.5	16695.3	20003.6	22022.3	21977.7	16625.9
42.5°	16139.8	16080.3	16263.8	16080.3	15931.5	16606.0	17836.1	20539.3	23202.8	22835.8	17622.8
45°	17642.7	17454.2	17518.7	17533.6	17424.4	17672.4	18307.3	20926.2	24031.1	23991.5	18352.0
47.5°	18897.6	18902.5	18793.4	18709.1	18376.8	18624.8	18833.1	21169.2	24983.5	24919.0	18634.7
50°	19363.8	19299.3	19616.8	19800.3	19820.1	19314.2	19244.8	21303.1	25484.4	25201.7	18917.4
52.5°	17687.3	17746.8	18247.8	19339.0	19968.9	20023.5	19725.9	21580.9	25687.8	25628.3	19145.6
55°	14235.2	14522.8	15346.2	16606.0	18099.0	19740.8	20246.7	21868.6	25796.9	25747.3	20157.4
56°	12514.0	12737.2	13808.6	14795.6	16670.5	18714.0	19919.3	22176.1	25881.2	26114.3	20395.5
57.5°	10073.7	10331.7	11100.5	12221.4	14433.6	16759.8	19016.6	21799.1	25553.9	25643.1	20569.1
60°	6299.2	6324.0	7246.5	7985.6	9543.0	11814.7	14512.9	18967.0	23649.2	23520.3	18476.0
62.5°	4131.7	4136.6	4974.9	5580.0	6289.3	6810.1	8541.1	12578.5	17449.2	17221.1	13153.9
65°	2901.6	2966.1	3615.8	4424.3	4712.0	4439.2	4384.6	6631.5	9746.4	9419.0	7068.0
67.5°	2122.9	2127.8	2703.2	3571.2	3987.8	3377.8	2742.9	3238.9	3858.9	3849.0	3273.6
70°	1403.7	1463.2	1904.6	2668.5	3144.6	2713.1	2241.9	2316.3	2455.2	2455.2	2435.4
72.5°	818.4	873.0	1165.6	1691.4	1765.8	1696.3	1775.7	1984.0	2073.3	2068.3	2043.5
75°	466.2	491.0	555.5	704.3	877.9	1036.6	1304.5	1502.9	1592.2	1646.7	1582.2
77.5°	272.8	287.7	327.4	401.8	456.3	560.5	709.3	848.2	967.2	952.3	962.2
80°	143.8	143.8	183.5	238.1	317.4	396.8	471.2	550.6	615.0	629.9	644.8
82.5°	84.3	89.3	119.0	173.6	228.2	282.7	362.1	416.6	476.2	481.1	491.0
85°	44.6	49.6	74.4	114.1	153.8	173.6	178.6	168.6	183.5	173.6	198.4
87.5°	14.9	14.9	24.8	19.8	19.8	24.8	29.8	29.8	39.7	39.7	39.7
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°	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9	7320.9
2.5°	7360.6	7360.6	7276.3	7117.6	7092.8	7028.3	6968.8	6963.8	6919.2	6879.5	6859.7
5°	7499.5	7345.7	7221.7	7077.9	6909.3	6829.9	6740.6	6641.4	6601.7	6641.4	6636.5
7.5°	7658.2	7529.3	7157.3	6889.4	6696.0	6616.6	6517.4	6413.3	6423.2	6423.2	6353.7
10°	7812.0	7638.4	7043.2	6700.9	6418.2	6358.7	6304.1	6343.8	6393.4	6403.3	6358.7
12.5°	8069.9	7678.1	6988.6	6512.5	6333.9	6204.9	6239.7	6348.8	6452.9	6423.2	6457.9
15°	8263.3	7712.8	6740.6	6319.0	6095.8	6155.3	6279.3	6353.7	6527.3	6507.5	6542.2
17.5°	8451.8	7732.6	6497.6	6061.1	5966.9	6130.5	6224.8	6438.1	6492.6	6611.7	6656.3
20°	8838.7	7772.3	6249.6	5902.4	5872.6	6061.1	6224.8	6324.0	6443.0	6547.2	6547.2
22.5°	9037.1	7752.5	6085.9	5694.1	5788.3	5907.3	6056.1	6224.8	6224.8	6324.0	6328.9
25°	9285.1	7673.1	5828.0	5594.9	5664.3	5778.4	5947.0	5887.5	5952.0	5952.0	6031.3
27.5°	9567.8	7504.5	5604.8	5416.3	5555.2	5679.2	5704.0	5664.3	5589.9	5580.0	5550.2
30°	9796.0	7296.1	5441.1	5356.8	5470.9	5540.3	5460.9	5376.6	5247.7	5237.7	5168.3
32.5°	10108.5	7038.2	5237.7	5208.0	5336.9	5341.9	5317.1	5188.1	4999.7	4920.3	4840.9
35°	10634.2	6889.4	5084.0	5128.6	5168.3	5153.4	5108.8	4969.9	4781.4	4746.7	4716.9
37.5°	11021.1	6780.3	4925.3	4979.8	5014.5	5034.4	4900.5	4746.7	4751.7	4682.2	4662.4
40°	11457.6	6710.9	4796.3	4821.1	4826.1	4890.5	4726.9	4652.5	4687.2	4642.5	4672.3
42.5°	12018.1	6730.7	4662.4	4642.5	4736.8	4712.0	4632.6	4533.4	4553.3	4419.3	4439.2
45°	12315.7	6864.6	4583.0	4493.7	4597.9	4592.9	4488.8	4394.5	4275.5	4017.6	4027.5
47.5°	12514.0	6899.3	4394.5	4335.0	4444.1	4508.6	4389.6	4171.3	4002.7	3819.2	3774.6
50°	12717.4	6963.8	4305.3	4181.3	4225.9	4379.7	4230.9	4022.6	3858.9	3695.2	3720.0
52.5°	12896.0	7087.8	4131.7	3948.2	4027.5	4196.1	4116.8	3863.8	3685.3	3551.4	3511.7
55°	13689.6	7365.6	3839.0	3601.0	3789.4	4002.7	3958.1	3650.6	3457.1	3387.7	3377.8
56°	13813.6	7375.5	3685.3	3481.9	3655.5	3938.2	3883.7	3556.3	3382.7	3273.6	3278.6
57.5°	13833.4	7256.5	3467.0	3372.8	3521.6	3844.0	3774.6	3481.9	3243.8	3144.6	3114.9
60°	12171.8	5664.3	3194.2	3134.7	3308.3	3556.3	3531.5	3278.6	3010.7	2896.6	2951.2
62.5°	8298.1	4151.5	2981.0	2971.0	3060.3	3303.4	3238.9	3010.7	2787.5	2713.1	2678.4
65°	4831.0	3149.6	2772.6	2733.0	2807.4	2936.3	2981.0	2742.9	2509.8	2460.2	2445.3
67.5°	2852.0	2604.0	2504.8	2440.3	2415.5	2494.9	2529.6	2390.7	2157.6	2088.2	2147.7
70°	2385.8	2316.3	2321.3	2212.2	2152.6	2098.1	2068.3	1944.3	1750.9	1661.6	1636.8
72.5°	2058.4	2028.6	2008.8	1909.6	1855.0	1731.0	1602.1	1478.1	1334.2	1259.8	1264.8
75°	1572.3	1562.4	1572.3	1522.7	1428.5	1329.3	1210.2	1051.5	942.4	848.2	868.0
77.5°	937.4	967.2	982.1	962.2	922.6	833.3	758.9	654.7	550.6	476.2	466.2
80°	644.8	669.6	694.4	669.6	629.9	565.4	486.1	406.7	332.3	292.6	282.7
82.5°	491.0	515.8	530.7	505.9	456.3	386.9	332.3	277.8	218.2	178.6	168.6
85°	178.6	203.4	198.4	238.1	257.9	248.0	213.3	163.7	124.0	89.3	84.3
87.5°	49.6	44.6	49.6	49.6	49.6	44.6	39.7	39.7	39.7	24.8	19.8
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)