

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: P533883

Luminaire Tested: **GALN-SA9B-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34117 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

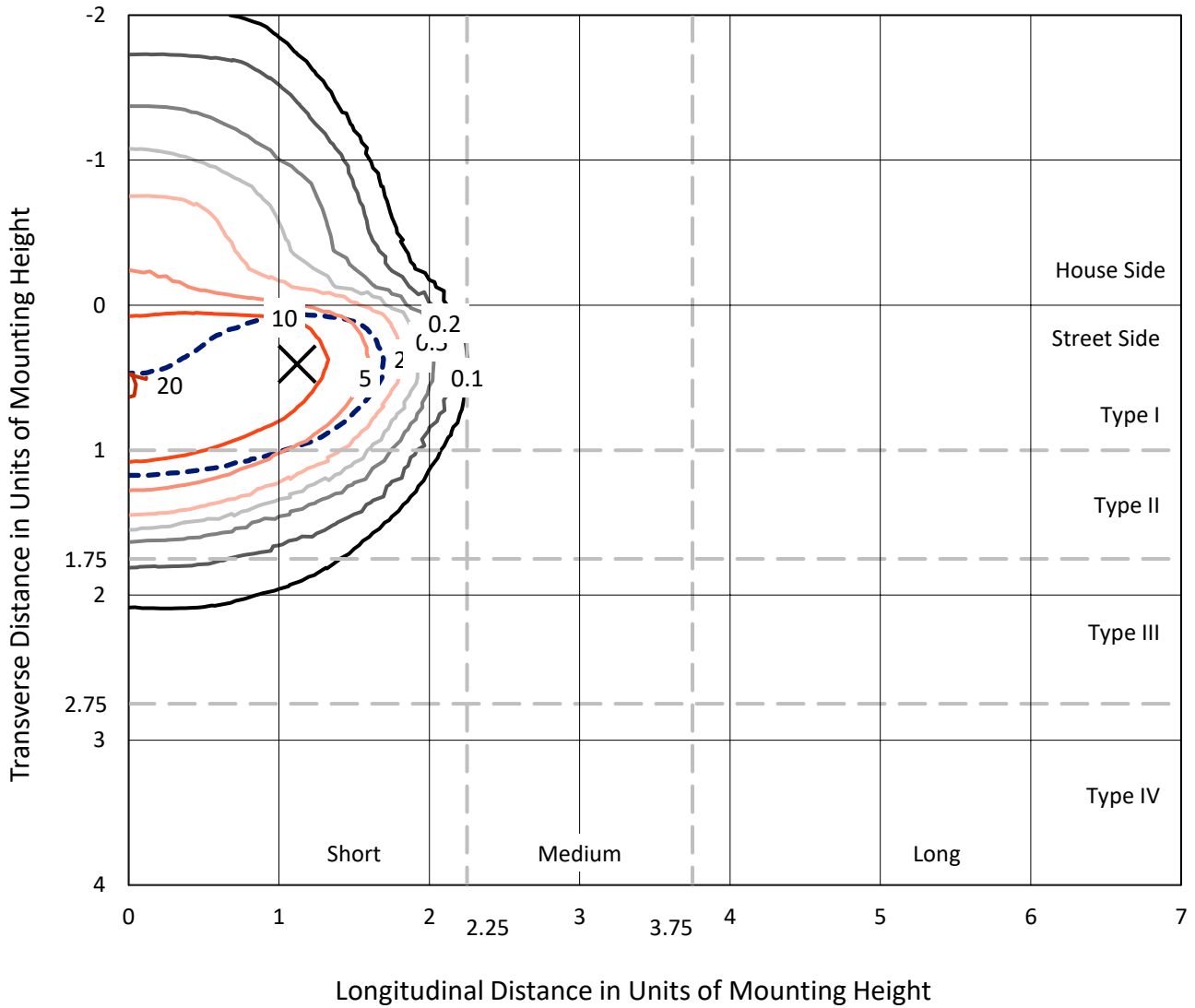
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

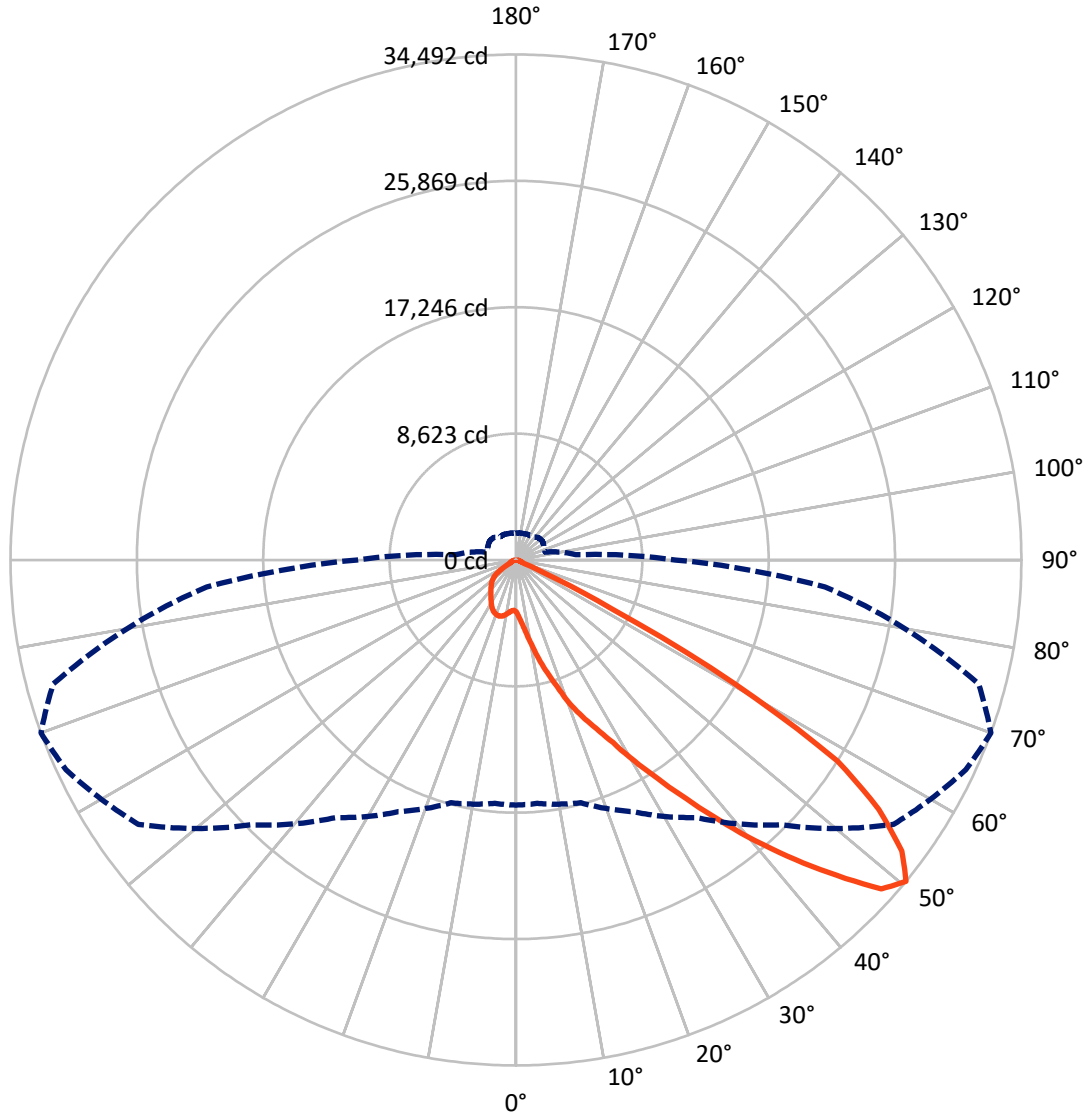
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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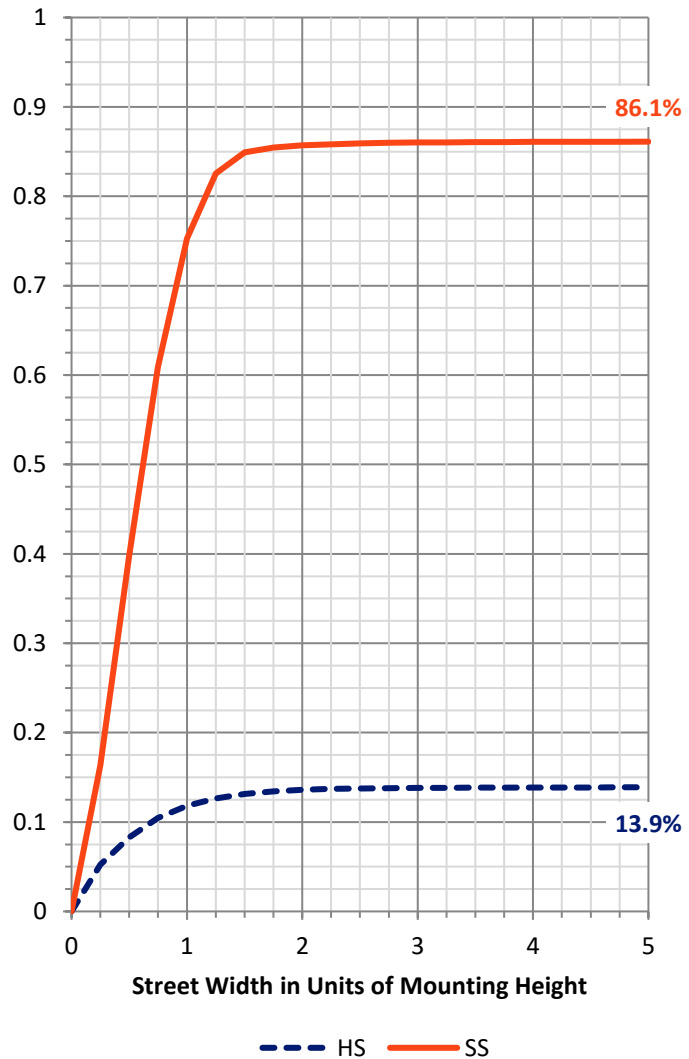
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4764.7	0.0	4764.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	29352.3	0.0	29352.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	34117.0	0.0	34117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.5	1.3
10°-20°	1987.8	5.8
20°-30°	4170.0	12.2
30°-40°	7187.7	21.1
40°-50°	10504.7	30.8
50°-60°	8181.4	24.0
60°-70°	1386.2	4.1
70°-80°	190.4	0.6
80°-90°	49.3	0.1
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°	34117.0	100.0
0°-180°	34117.0	100.0

Coefficient of Utilization



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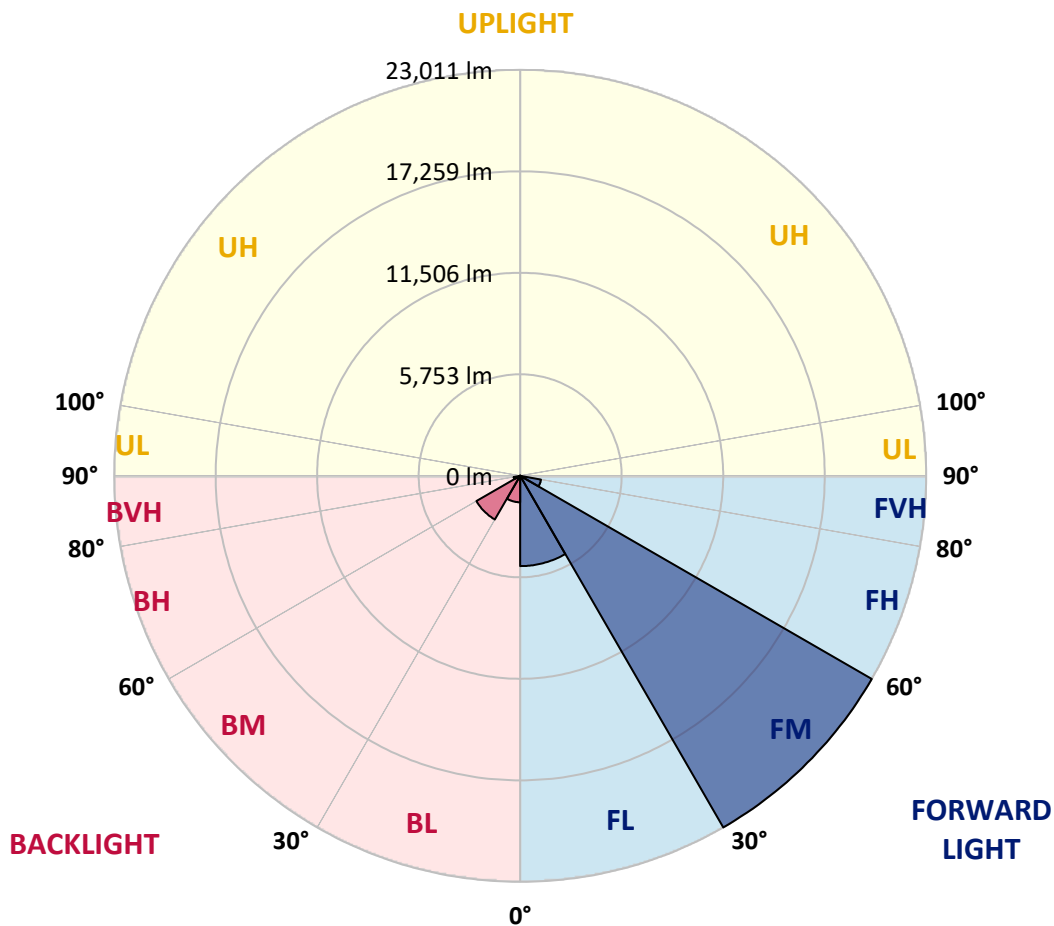
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5118.0	15.0			
FM (30°-60°)	23011.3	67.4			
FH (60°-80°)	1200.2	3.5			G1/1800
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1499.3	4.4	B3/2500		
BM (30°-60°)	2862.5	8.4	B3/5000		
BH (60°-80°)	376.4	1.1	B1/500		G1/500
BVH (80°-90°)	26.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8
2.5°	4627.7	4594.0	4521.1	4386.5	4330.4	4195.7	4117.2	3965.8	3870.4	3763.8	3646.0
5°	6518.0	6344.1	6237.5	6086.1	5642.9	5368.1	4913.7	4526.7	4347.2	4150.9	3881.6
7.5°	8470.0	8357.8	8212.0	7886.7	7583.8	7011.6	6231.9	5379.3	5014.7	4678.1	4145.3
10°	10085.5	9771.4	9754.5	9513.3	9182.4	8498.1	7561.3	6501.2	5850.5	5356.9	4521.1
12.5°	11213.0	10926.9	11055.9	11027.9	10719.3	10091.1	9008.5	7606.2	6927.5	6159.0	4908.1
15°	12239.5	12121.7	12082.4	12048.7	11925.3	11459.8	10489.4	8952.4	7970.8	7045.3	5345.6
17.5°	13243.5	12940.6	13086.5	13114.5	13103.3	12682.6	11773.9	10231.3	9075.8	7982.0	5805.6
20°	14135.4	14163.4	13967.1	13927.9	13894.2	13877.4	12991.1	11499.0	10433.3	8963.6	6405.8
22.5°	15279.7	15083.4	15257.3	15145.1	14926.3	14791.7	14113.0	12620.9	11611.2	10147.2	7017.2
25°	16631.5	16788.6	16379.1	16334.2	16093.0	15627.5	15016.1	13877.4	12744.3	11246.6	7679.1
27.5°	18297.5	18022.6	17916.1	17669.2	17231.7	17035.4	16317.4	15173.1	14113.0	12402.1	8318.6
30°	19727.9	19654.9	19122.1	18830.4	18448.9	18443.3	17439.3	16928.8	15896.7	14213.9	9199.2
32.5°	20894.6	20574.9	20378.5	20176.6	19868.1	19952.2	19105.2	18836.0	17798.3	15896.7	10236.9
35°	21674.3	21444.3	21326.5	21018.0	20928.2	21304.1	20950.7	20838.5	19985.9	18263.8	11454.2
37.5°	21921.1	21994.0	21971.6	21584.5	21775.2	22790.5	23244.9	22953.2	22504.5	20760.0	12772.3
40°	22139.8	22190.3	22078.1	22532.5	23076.6	24232.1	25875.6	25393.2	25225.0	23289.8	14606.6
42.5°	22263.3	22224.0	22224.0	23009.3	23833.9	26156.1	28416.6	28096.9	27967.9	25982.2	16726.9
45°	21730.4	21348.9	21758.4	22824.2	24484.5	27104.1	30447.2	30890.3	30705.2	29185.1	19206.2
47.5°	19739.1	19974.7	20204.6	21629.4	23693.6	26812.4	31692.5	33201.4	33543.5	31877.6	20832.9
50°	16726.9	16676.4	17153.2	18948.2	21455.5	25555.9	31451.3	33868.9	34491.5	32685.3	21175.0
52.5°	12166.5	12536.8	13052.8	14836.6	17809.5	22302.5	28338.1	32146.8	32977.0	31692.5	20950.7
55°	7084.5	6675.0	7836.2	9345.1	12149.7	16822.2	23957.3	28495.2	30032.1	29886.3	19817.6
57.5°	2838.3	2748.5	3146.8	4240.6	6338.5	10427.7	17422.4	23413.2	25875.6	27373.3	17416.8
60°	1245.3	1217.2	1430.4	1727.7	2591.5	4807.2	9530.2	14561.7	17130.8	19127.7	11987.0
62.5°	897.5	886.3	992.8	1099.4	1368.7	2092.3	4005.0	5867.3	7314.5	8834.6	5368.1
65°	723.6	751.6	824.6	880.7	1009.7	1161.1	1413.5	1632.3	2002.5	2075.4	1183.6
67.5°	589.0	611.4	678.7	740.4	762.9	628.2	650.7	572.1	572.1	510.4	409.5
70°	431.9	437.5	516.1	589.0	471.2	252.4	443.1	443.1	398.3	381.4	347.8
72.5°	319.7	325.3	387.0	364.6	185.1	157.1	325.3	359.0	325.3	308.5	280.5
75°	235.6	241.2	201.9	84.1	78.5	101.0	190.7	246.8	235.6	230.0	213.2
77.5°	44.9	33.7	28.0	39.3	56.1	84.1	123.4	151.5	157.1	168.3	157.1
80°	5.6	5.6	16.8	33.7	61.7	89.7	129.0	145.8	151.5	157.1	145.8
82.5°	0.0	5.6	16.8	33.7	61.7	84.1	112.2	129.0	140.2	145.8	140.2
85°	0.0	5.6	11.2	28.0	50.5	61.7	56.1	39.3	33.7	39.3	28.0
87.5°	0.0	0.0	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2	11.2
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°	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8	3533.8
2.5°	3578.7	3556.3	3477.8	3393.6	3320.7	3354.4	3320.7	3292.7	3303.9	3292.7	3281.4
5°	3775.0	3674.1	3505.8	3432.9	3371.2	3365.6	3348.7	3343.1	3348.7	3348.7	3298.3
7.5°	3960.2	3797.5	3618.0	3539.5	3466.5	3472.1	3432.9	3432.9	3427.3	3399.2	3388.0
10°	4240.6	4021.9	3791.9	3651.6	3561.9	3545.1	3505.8	3466.5	3466.5	3466.5	3410.4
12.5°	4549.1	4274.3	3960.2	3797.5	3690.9	3606.8	3545.1	3533.8	3472.1	3460.9	3432.9
15°	4818.4	4470.6	4072.3	3848.0	3713.3	3601.2	3505.8	3444.1	3416.1	3399.2	3376.8
17.5°	5082.0	4638.9	4134.0	3848.0	3702.1	3573.1	3472.1	3416.1	3348.7	3360.0	3315.1
20°	5435.4	4818.4	4150.9	3775.0	3595.6	3472.1	3337.5	3309.5	3270.2	3236.6	3247.8
22.5°	5777.6	4947.4	4100.4	3685.3	3427.3	3281.4	3214.1	3180.5	3163.6	3135.6	3096.3
25°	6086.1	5087.6	4021.9	3522.6	3247.8	3141.2	3079.5	3073.9	3034.6	3034.6	2961.7
27.5°	6400.2	5138.1	3887.2	3331.9	3090.7	3029.0	3001.0	2989.7	2972.9	2933.7	2883.2
30°	6759.2	5154.9	3690.9	3135.6	2950.5	2883.2	2922.4	2950.5	2877.6	2804.6	2827.1
32.5°	7056.5	5115.7	3455.3	2950.5	2849.5	2815.9	2894.4	2922.4	2838.3	2759.8	2720.5
35°	7415.5	5020.3	3225.3	2804.6	2748.5	2815.9	2883.2	2883.2	2714.9	2619.5	2597.1
37.5°	7959.6	4913.7	3012.2	2681.2	2642.0	2782.2	2872.0	2810.3	2546.6	2428.8	2400.8
40°	8542.9	4846.4	2804.6	2557.8	2585.9	2726.1	2776.6	2585.9	2316.6	2243.7	2221.3
42.5°	9389.9	4711.8	2619.5	2451.3	2535.4	2647.6	2647.6	2305.4	2204.4	2165.2	2159.6
45°	10444.5	4616.4	2456.9	2361.5	2462.5	2490.5	2400.8	2159.6	2086.7	2075.4	2081.0
47.5°	10960.5	4431.3	2288.6	2254.9	2327.9	2333.5	2097.9	2041.8	1980.1	1963.2	1952.0
50°	10882.0	4100.4	2069.8	2114.7	2215.7	2159.6	1912.8	1924.0	1867.9	1862.3	1834.2
52.5°	10332.3	3578.7	1851.1	1957.6	2069.8	1907.2	1761.3	1750.1	1750.1	1677.2	1649.1
55°	9160.0	2883.2	1587.4	1722.1	1856.7	1604.3	1565.0	1553.8	1525.7	1458.4	1441.6
57.5°	7252.8	2114.7	1194.8	1340.6	1576.2	1363.1	1357.4	1307.0	1234.0	1183.6	1183.6
60°	4313.5	1217.2	751.6	819.0	1043.3	1105.0	1228.4	1206.0	1082.6	1004.1	981.6
62.5°	1968.9	628.2	476.8	488.0	560.9	718.0	964.8	1116.2	942.4	807.7	796.5
65°	661.9	465.6	392.6	375.8	387.0	431.9	577.8	790.9	751.6	622.6	600.2
67.5°	403.9	415.1	370.2	342.2	342.2	336.6	330.9	359.0	443.1	431.9	437.5
70°	347.8	381.4	342.2	308.5	297.3	280.5	235.6	196.3	168.3	196.3	207.5
72.5°	280.5	302.9	291.7	263.6	235.6	213.2	168.3	129.0	95.4	84.1	84.1
75°	207.5	224.4	235.6	201.9	179.5	151.5	123.4	84.1	50.5	33.7	33.7
77.5°	151.5	168.3	173.9	157.1	134.6	106.6	78.5	56.1	28.0	11.2	11.2
80°	129.0	151.5	168.3	157.1	140.2	101.0	72.9	39.3	22.4	5.6	5.6
82.5°	123.4	151.5	168.3	151.5	134.6	95.4	72.9	44.9	16.8	5.6	5.6
85°	28.0	39.3	50.5	61.7	72.9	72.9	56.1	33.7	16.8	5.6	5.6
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	5.6	5.6	0.0
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)