

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: P652631

Luminaire Tested: **GALN-SA9B-840-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25907 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

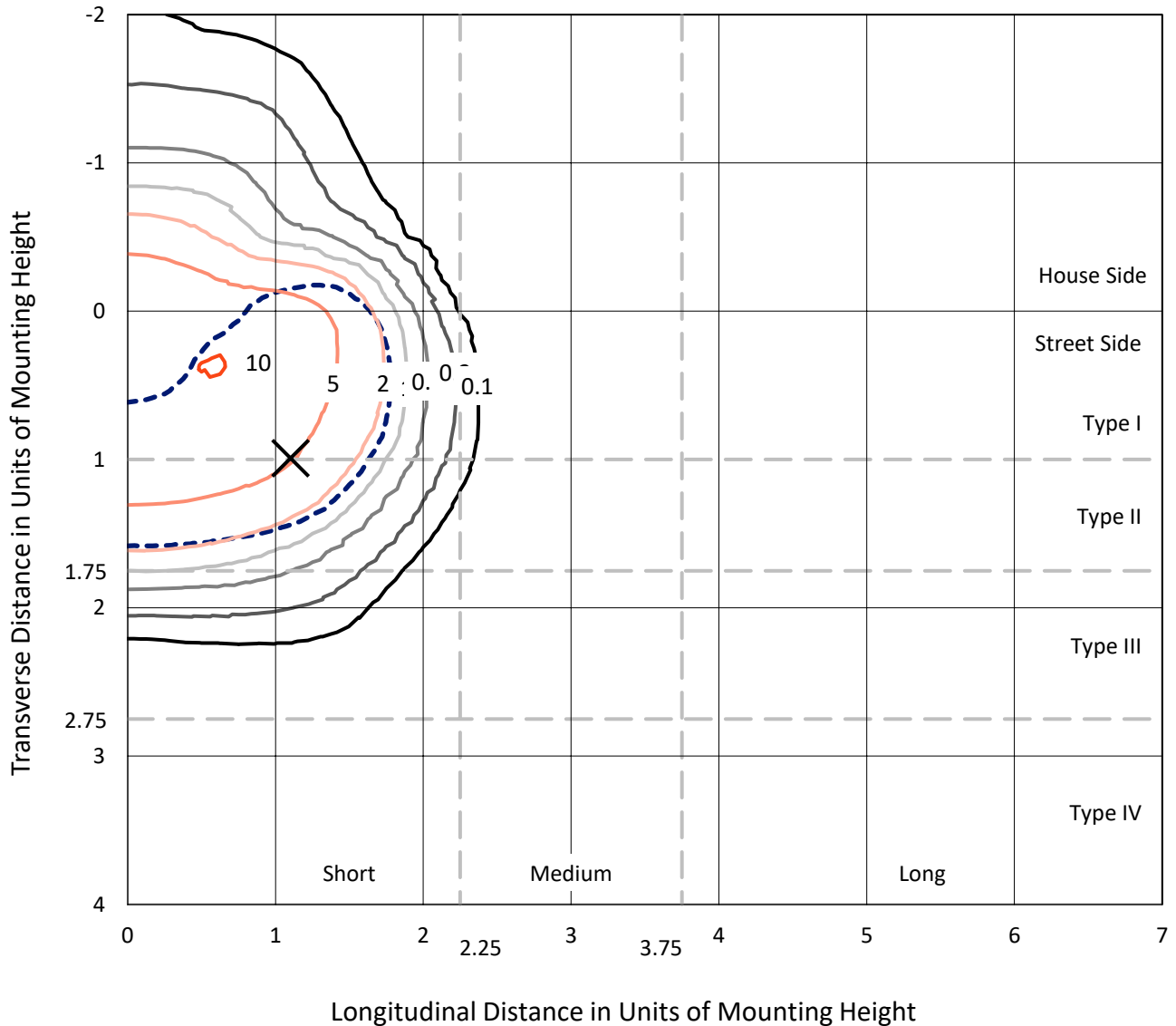
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

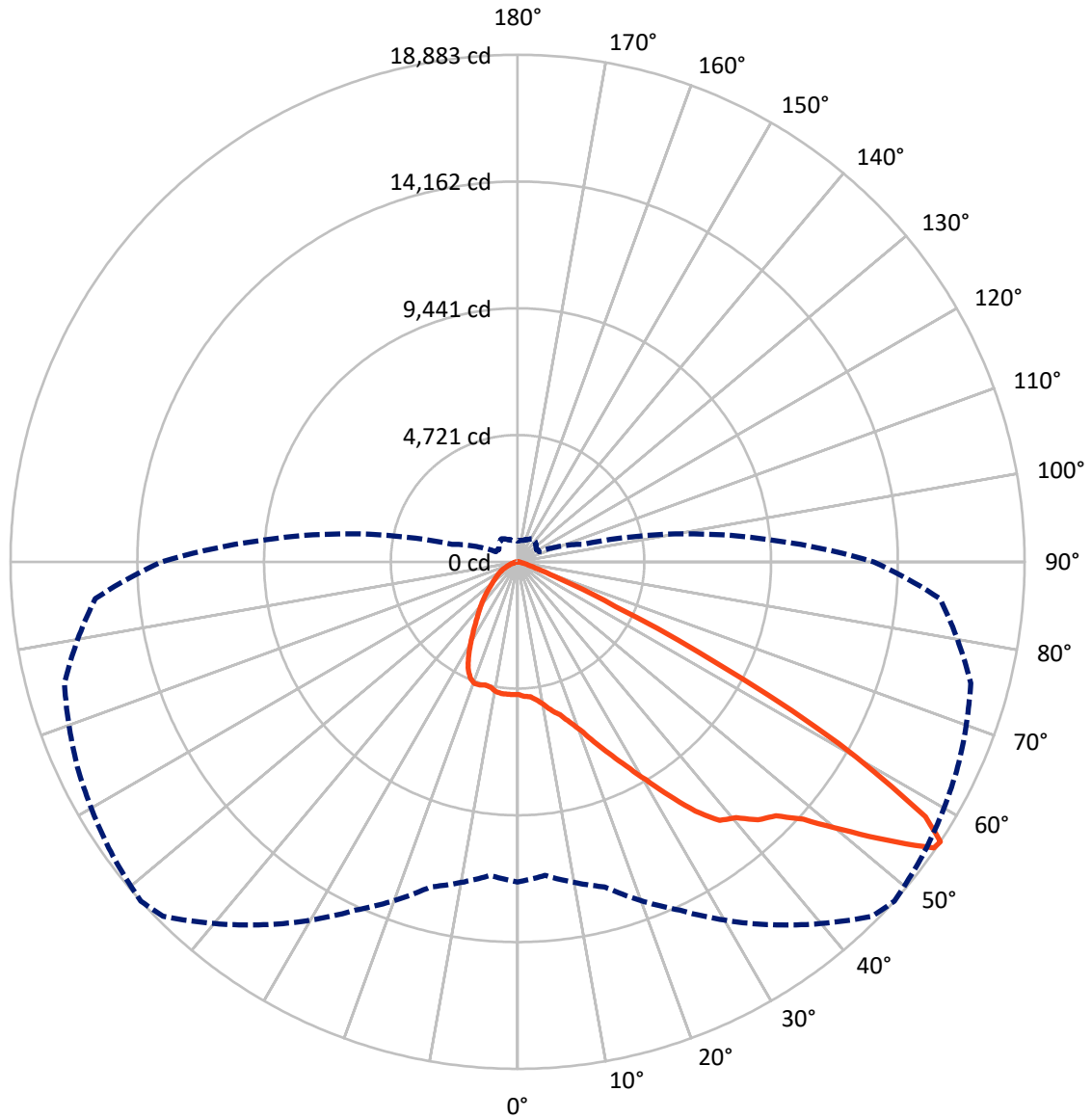
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - Horizontal Cone Through 56-Deg Vertical

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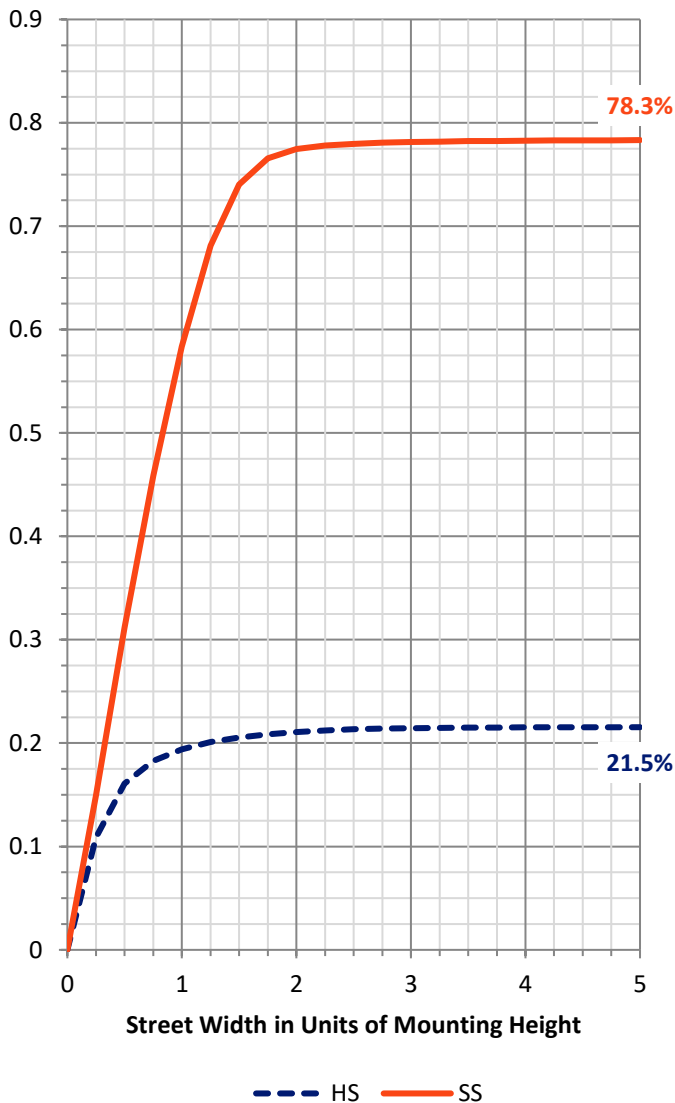
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5634.3	0.0	5634.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	20272.7	0.0	20272.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	25907.0	0.0	25907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.0	1.9
10°-20°	1540.4	5.9
20°-30°	2794.0	10.8
30°-40°	4388.9	16.9
40°-50°	6402.6	24.7
50°-60°	7713.9	29.8
60°-70°	2258.5	8.7
70°-80°	286.5	1.1
80°-90°	40.2	0.2
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°	25907.0	100.0
0°-180°	25907.0	100.0

Coefficient of Utilization



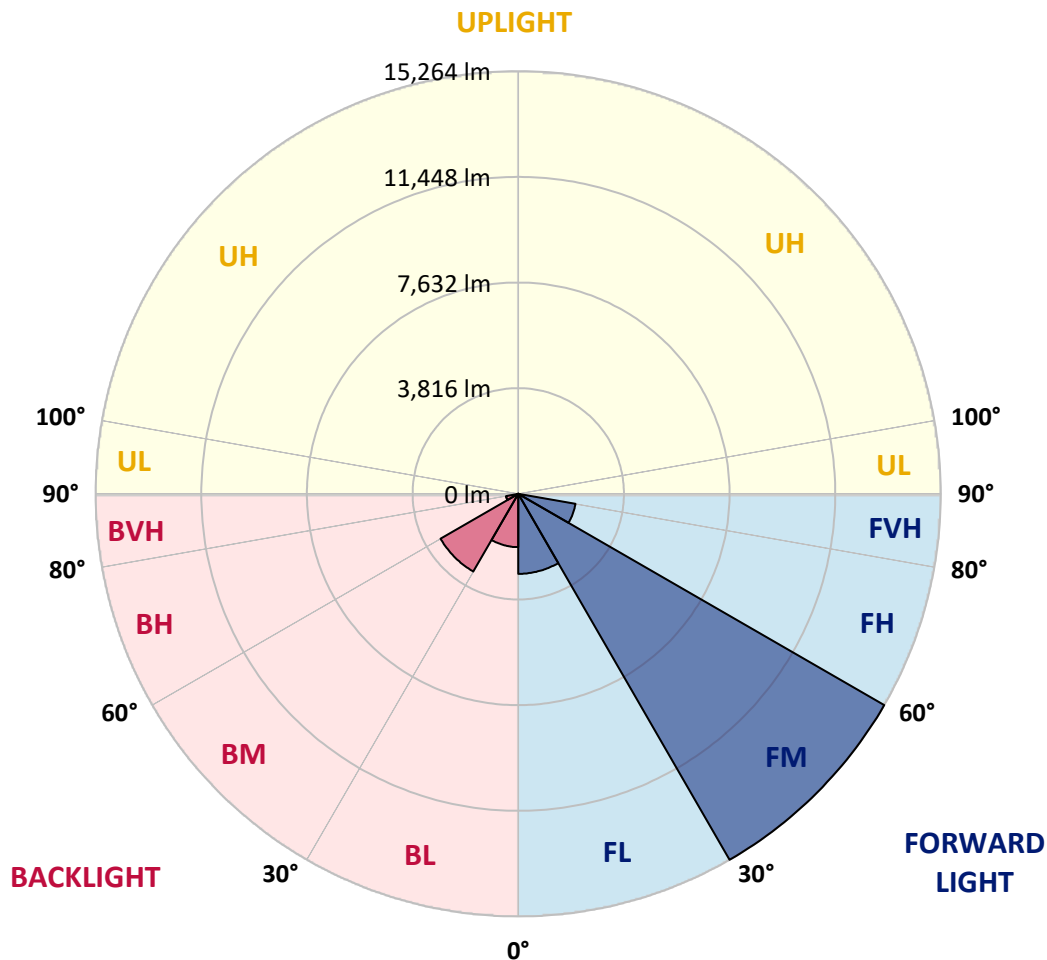
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.7	11.2			
FM (30°-60°)	15264.5	58.9			
FH (60°-80°)	2097.4	8.1			G2/5000
FVH (80°-90°)	20.2	0.1			G1/100
BL (0°-30°)	1925.8	7.4	B3/2500		
BM (30°-60°)	3240.8	12.5	B3/5000		
BH (60°-80°)	447.7	1.7	B1/500		G1/500
BVH (80°-90°)	20.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3
2.5°	5037.8	5014.3	5014.3	4976.5	5019.0	5000.2	5014.3	4967.1	5014.3	4943.6	5000.2
5°	5061.5	5066.2	5047.3	5070.9	5070.9	5099.2	5052.1	5094.4	5118.1	5066.2	5042.6
7.5°	5184.1	5193.5	5188.8	5170.0	5207.7	5203.0	5198.2	5165.3	5174.7	5155.8	5127.5
10°	5424.7	5420.0	5443.5	5396.4	5368.1	5401.1	5410.5	5358.6	5320.9	5306.7	5217.1
12.5°	5773.7	5717.1	5684.2	5637.0	5651.1	5603.9	5688.9	5599.2	5580.4	5495.4	5405.8
15°	6056.8	6047.3	6052.1	5976.6	5891.7	5910.5	5910.5	5863.4	5835.0	5731.3	5603.9
17.5°	6637.0	6438.9	6481.3	6387.0	6316.2	6311.5	6269.1	6278.5	6203.0	5986.0	5792.6
20°	7089.8	7004.9	6938.8	6778.5	6670.0	6703.0	6684.2	6637.0	6613.4	6330.4	6056.8
22.5°	7495.5	7523.8	7415.3	7372.9	7221.9	7236.0	7273.8	7231.3	7052.1	6759.6	6353.9
25°	8066.3	8033.2	7887.0	7835.1	7693.6	7745.5	7891.7	7858.7	7745.5	7217.2	6585.1
27.5°	8740.8	8627.6	8655.9	8420.0	8283.3	8429.5	8604.0	8769.1	8448.3	7754.9	6858.7
30°	9217.3	9099.3	9089.9	9080.4	9047.4	9217.3	9420.0	9571.0	9311.6	8292.7	7311.5
32.5°	9453.1	9481.4	9561.6	9533.2	9821.0	10170.1	10382.4	10599.4	10273.9	9170.1	7910.6
35°	10080.5	9901.2	10080.5	10099.3	10396.5	11137.1	11406.0	11924.9	11844.6	10410.7	8641.8
37.5°	10448.4	10434.3	10457.8	10637.1	10924.8	11839.9	12222.0	12623.0	12472.0	11155.9	9552.2
40°	11056.9	11094.6	11089.9	11226.8	11542.8	12368.3	12523.9	12849.4	12863.6	12189.0	10891.8
42.5°	12033.4	11882.4	11783.3	11924.9	12368.3	12825.8	13137.2	13071.1	13538.1	13443.8	12613.6
45°	12910.7	13000.3	12854.1	13090.0	13250.4	13495.7	13486.2	13627.7	14222.1	14670.2	13910.7
47.5°	13731.5	13788.1	13858.8	14019.2	14368.3	14406.1	14325.8	14264.5	15085.4	15547.6	14915.5
50°	14222.1	14274.0	14604.1	14891.9	15542.9	15627.8	15675.0	15519.3	16075.9	16127.8	15863.6
52.5°	14090.0	14146.6	14608.9	15557.1	16594.8	17373.1	17231.6	16967.4	16934.5	17137.2	16741.0
55°	12920.2	12868.3	13505.1	14981.6	16925.0	18793.0	18811.8	18533.5	18000.5	17863.7	16608.9
56°	11924.9	11722.0	12533.3	14316.4	16500.4	18670.3	18882.6	18585.4	18085.4	17472.2	15792.9
57.5°	9769.1	9962.6	10769.2	12245.6	15033.5	17788.2	17910.9	17840.1	17462.8	16434.4	13896.6
60°	5386.9	5726.5	6438.9	8245.5	10703.2	13651.3	13750.4	14325.8	14396.7	12585.2	9561.6
62.5°	2287.8	2250.1	2990.7	4320.9	6094.5	8240.8	8424.8	9014.4	9122.9	7254.9	4797.3
65°	929.3	981.2	1353.8	2174.6	3221.8	3754.8	4014.3	4207.7	4566.1	2995.4	1768.9
67.5°	613.3	608.5	797.2	1240.6	1735.9	1674.6	1674.6	1768.9	1636.8	1221.7	764.1
70°	438.7	452.9	570.8	858.5	1080.2	801.9	768.9	735.9	834.9	806.6	618.0
72.5°	287.7	306.6	382.1	514.2	561.4	438.7	438.7	528.3	688.7	650.9	504.8
75°	188.7	193.4	235.8	297.2	278.3	226.4	250.0	353.8	500.0	481.1	358.5
77.5°	127.3	132.1	160.4	193.4	155.7	127.3	136.8	179.2	245.3	245.3	188.7
80°	47.2	51.9	66.0	61.3	70.7	89.7	99.1	122.6	146.2	146.2	127.3
82.5°	0.0	4.7	14.1	33.1	51.9	70.7	80.2	94.4	108.5	122.6	117.9
85°	0.0	4.7	14.1	23.5	37.8	42.5	47.2	33.1	28.3	28.3	23.5
87.5°	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.4	4.7	4.7
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°	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3	4948.3
2.5°	4948.3	4943.6	4943.6	4929.4	4957.7	4943.6	4953.0	4948.3	4887.0	4934.1	4901.1
5°	5000.2	5033.1	4981.2	4971.8	4934.1	4948.3	4948.3	4901.1	4943.6	4938.9	4929.4
7.5°	5132.2	5075.6	5019.0	4962.4	4953.0	4938.9	4887.0	4868.0	4901.1	4863.3	4919.9
10°	5188.8	5198.2	5113.4	5037.8	4967.1	4868.0	4797.3	4754.8	4703.0	4759.6	4792.6
12.5°	5448.3	5353.9	5207.7	5089.7	4849.2	4750.1	4679.4	4660.5	4750.1	4769.0	4736.0
15°	5537.9	5523.8	5335.1	5070.9	4820.9	4703.0	4717.1	4679.4	4688.8	4641.6	4651.1
17.5°	5721.8	5561.4	5339.8	5009.6	4816.2	4787.9	4703.0	4552.0	4467.1	4429.4	4462.3
20°	5924.7	5769.0	5448.3	5033.1	4858.6	4783.2	4504.8	4320.9	4146.4	4052.0	4056.7
22.5°	6104.0	5910.5	5401.1	5042.6	4896.4	4585.0	4250.1	3886.9	3669.9	3523.7	3528.4
25°	6321.0	6047.3	5420.0	5061.5	4797.3	4269.0	3787.9	3434.1	3174.6	3075.5	3108.6
27.5°	6443.6	6132.2	5523.8	5103.9	4537.9	3820.8	3302.0	2971.8	2820.8	2773.7	2768.9
30°	6811.5	6321.0	5651.1	5019.0	4103.9	3339.7	2858.6	2655.7	2509.5	2467.1	2476.5
32.5°	7358.7	6665.3	5816.2	4797.3	3660.5	2910.4	2570.9	2419.9	2283.1	2202.9	2193.5
35°	7816.3	7254.9	5990.7	4452.9	3146.3	2580.3	2368.0	2179.3	1971.7	1882.2	1858.5
37.5°	8689.0	7920.0	5953.0	3934.0	2655.7	2335.0	2151.0	1919.8	1740.6	1618.0	1603.8
40°	9849.3	8698.4	5769.0	3302.0	2292.5	2118.0	1919.8	1698.1	1476.5	1372.7	1363.3
42.5°	11259.7	9651.2	5434.1	2660.4	1929.3	1901.0	1721.8	1467.0	1268.9	1193.5	1198.2
45°	12406.0	10467.3	5094.4	2136.8	1660.4	1688.7	1533.1	1292.4	1155.7	1094.4	1094.4
47.5°	13424.9	11019.2	4726.5	1764.2	1410.4	1476.5	1339.6	1198.2	1080.2	1033.1	1023.6
50°	14406.1	11580.5	4358.7	1429.3	1202.9	1268.9	1254.8	1141.6	1047.2	990.6	995.3
52.5°	15019.3	11670.1	3891.6	1169.8	1051.9	1127.4	1174.5	1070.8	967.0	934.0	924.6
55°	14269.2	10514.4	3018.9	962.3	891.5	990.6	1080.2	962.3	882.1	825.5	820.8
56°	13259.8	9401.2	2523.7	886.8	844.4	952.9	1047.2	919.8	830.2	797.2	773.6
57.5°	11226.8	7693.6	1863.2	787.8	783.1	886.8	995.3	877.4	773.6	745.3	745.3
60°	7000.2	4330.3	1127.4	660.4	679.3	787.8	896.3	783.1	688.7	688.7	702.8
62.5°	3188.7	1801.9	684.0	561.4	584.9	679.3	797.2	707.5	655.6	707.5	717.0
65°	1085.0	778.3	495.3	448.1	462.3	561.4	684.0	717.0	712.2	745.3	764.1
67.5°	608.5	500.0	415.1	372.6	363.2	415.1	561.4	717.0	688.7	674.6	684.0
70°	514.2	424.5	367.9	330.2	316.0	334.9	434.0	542.4	485.8	471.7	462.3
72.5°	415.1	353.8	320.8	297.2	254.7	217.0	198.1	207.6	231.1	245.3	268.9
75°	292.5	268.9	268.9	240.6	183.9	136.8	108.5	89.7	61.3	42.5	47.2
77.5°	165.1	165.1	169.8	146.2	117.9	89.7	66.0	47.2	23.5	9.4	4.7
80°	113.2	122.6	132.1	117.9	99.1	80.2	56.6	33.1	14.1	0.0	0.0
82.5°	113.2	127.3	136.8	117.9	99.1	75.4	56.6	33.1	14.1	4.7	0.0
85°	23.5	28.3	33.1	37.8	56.6	56.6	42.5	28.3	14.1	4.7	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	0.0	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)