

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: P647124

Luminaire Tested: **GALN-SA8C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647124
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-SA8C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 37284.9 lumens
Efficiency: N/A
Efficacy: 86.9 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

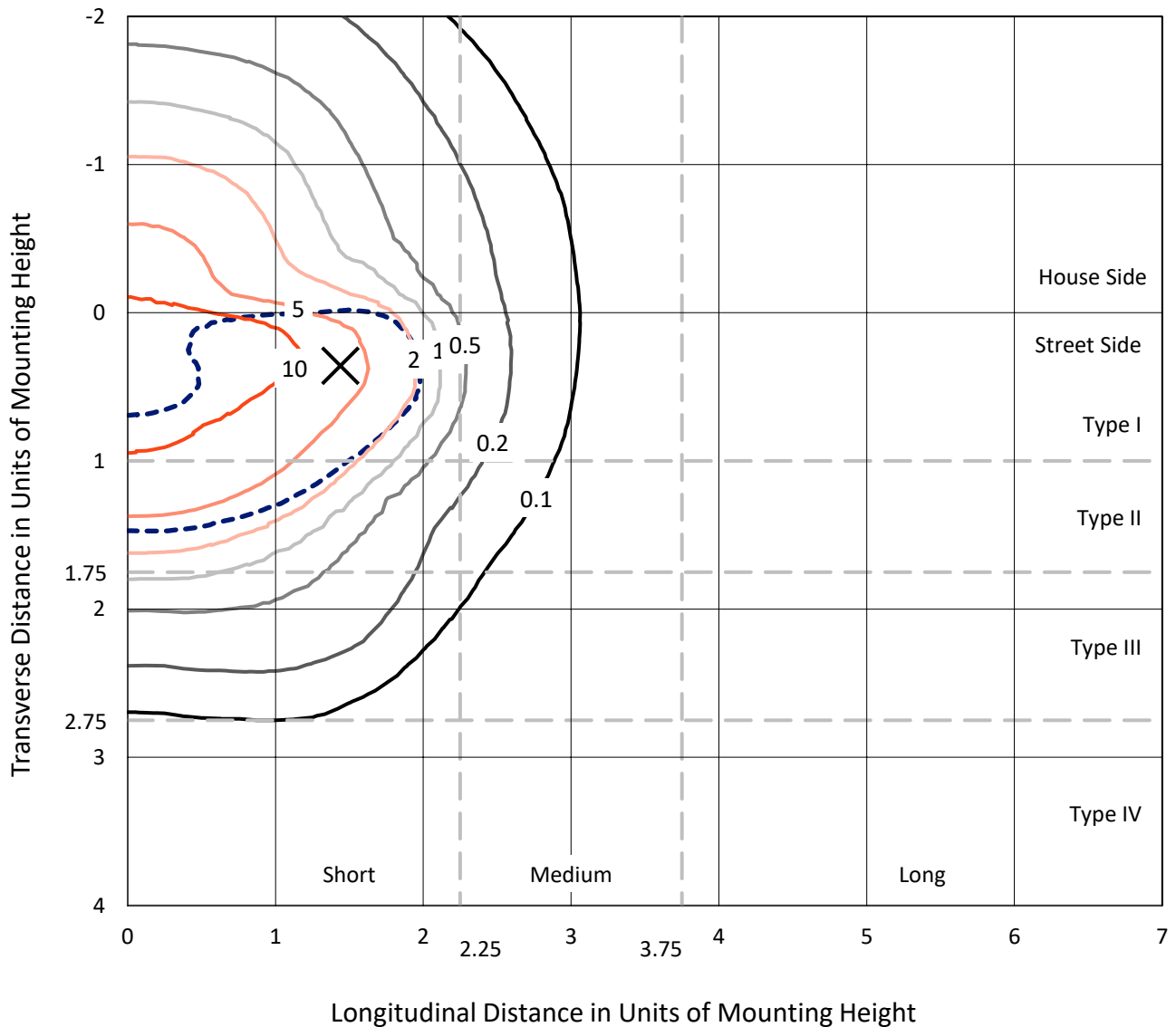
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

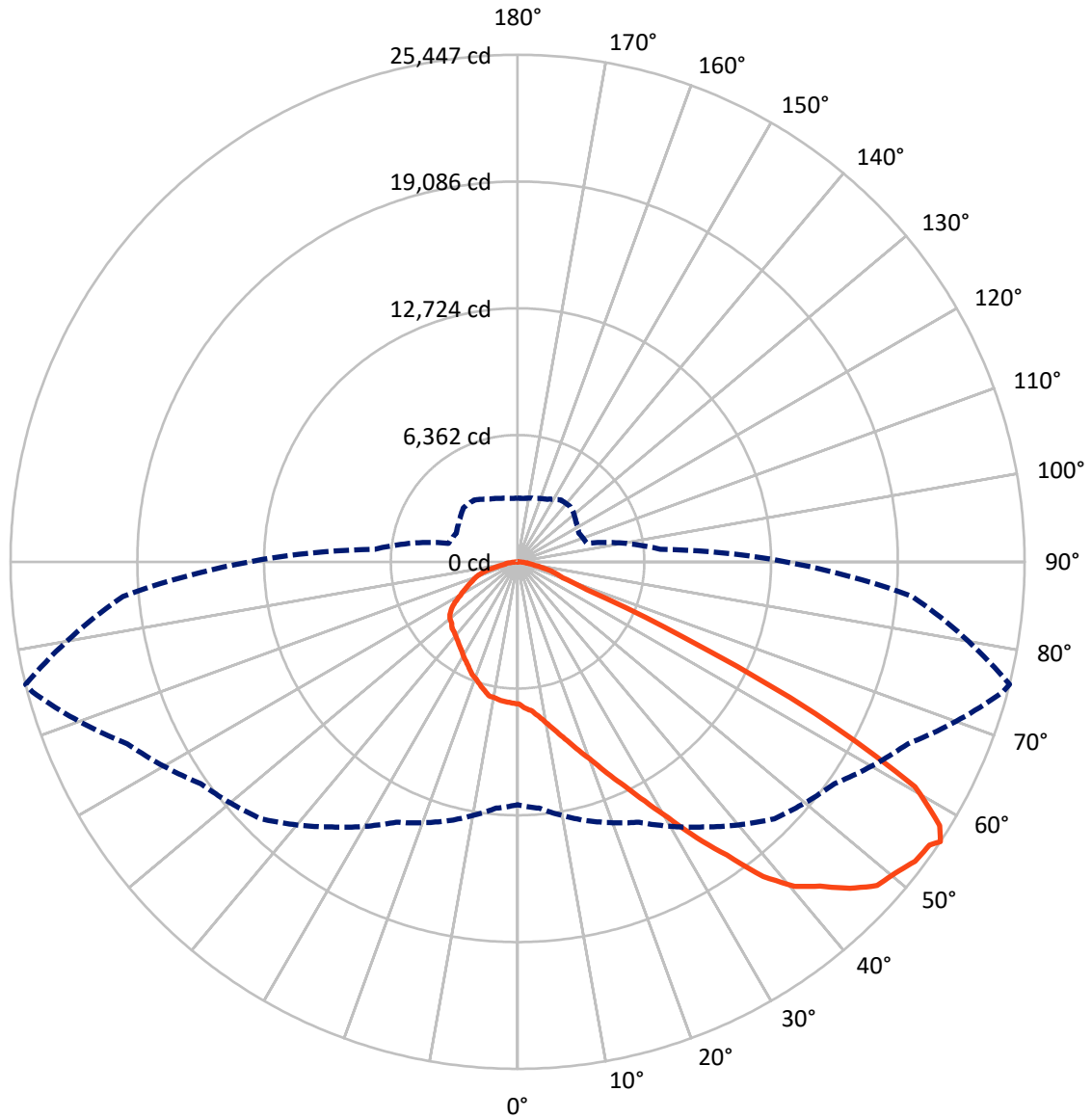
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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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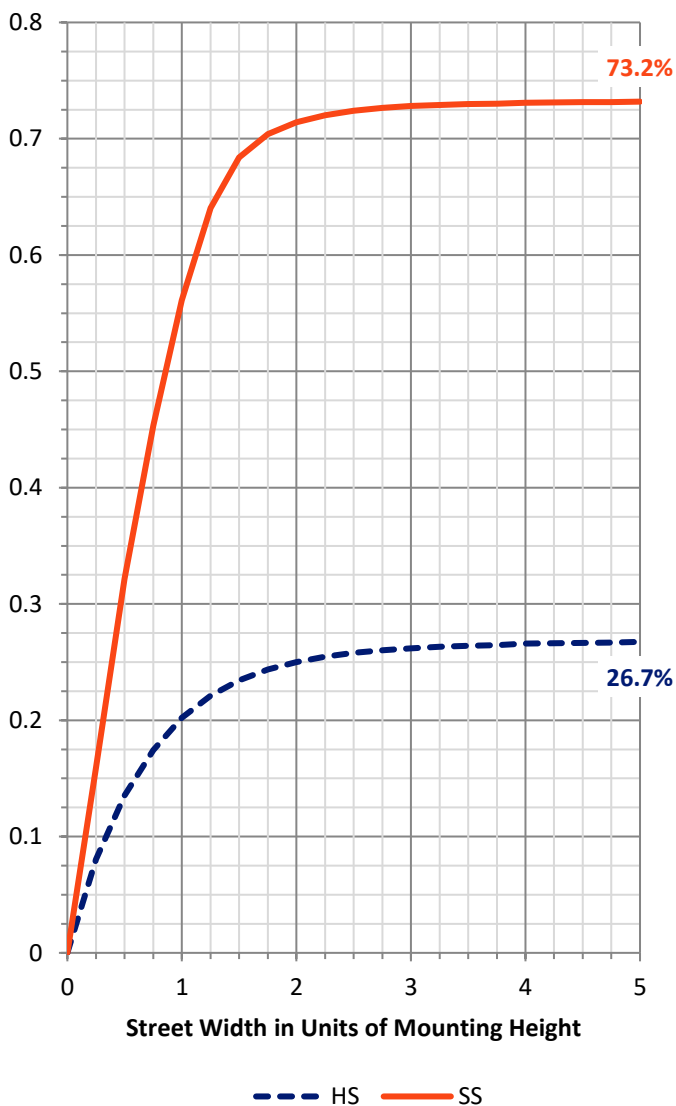
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10024.8	0.0	10024.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	27260.1	0.0	27260.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	37284.9	0.0	37284.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.5	1.9
10°-20°	2222.4	6.0
20°-30°	3886.7	10.4
30°-40°	6085.4	16.3
40°-50°	8852.6	23.7
50°-60°	9729.6	26.1
60°-70°	4342.9	11.6
70°-80°	1254.4	3.4
80°-90°	203.5	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°	37284.9	100.0
0°-180°	37284.9	100.0

Coefficient of Utilization

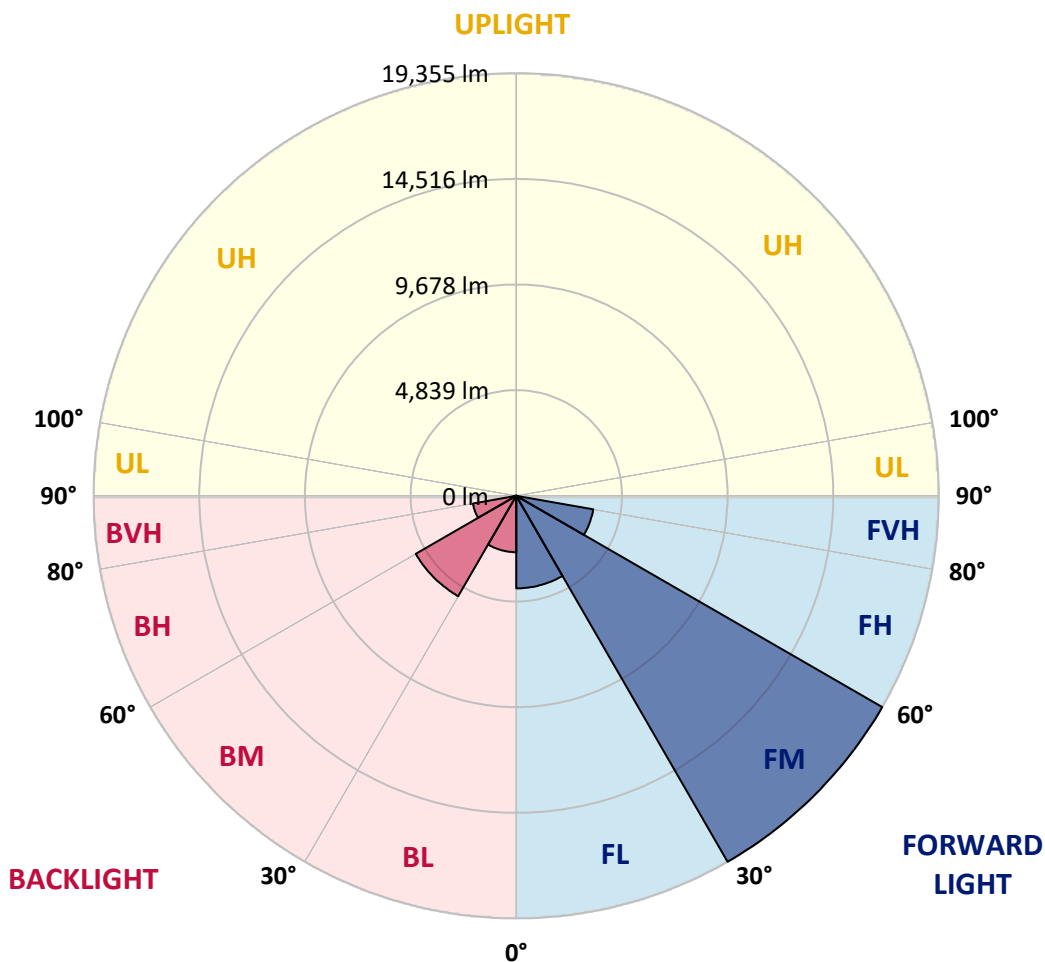


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4237.0	11.4			
FM (30°-60°)	19355.3	51.9			
FH (60°-80°)	3580.2	9.6			G2/5000
FVH (80°-90°)	87.6	0.2			G1/100
BL (0°-30°)	2579.6	6.9	B4/5000		
BM (30°-60°)	5312.3	14.2	B4/8500		
BH (60°-80°)	2017.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	115.9	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°	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0
2.5°	7859.0	7733.3	7723.7	7689.8	7709.2	7622.1	7530.3	7409.5	7283.9	7361.1	7177.4
5°	8410.0	8240.8	8308.5	8192.5	8207.0	8091.0	7902.5	7762.3	7607.6	7515.8	7385.3
7.5°	8603.3	8617.9	8666.2	8646.8	8550.1	8550.1	8424.5	8178.0	7907.3	7854.1	7636.7
10°	8864.3	8869.1	8816.0	8830.5	8965.8	8902.9	8791.8	8685.5	8337.5	8274.7	7888.0
12.5°	8956.1	8869.1	8956.1	9033.5	9193.0	9280.0	9255.8	9178.5	8806.3	8762.8	8197.3
15°	8970.7	8917.5	8990.0	9164.0	9304.2	9671.5	9855.2	9802.0	9309.0	9313.8	8545.3
17.5°	8902.9	8975.5	9004.5	9154.3	9478.1	9821.3	10353.0	10425.5	10019.5	9956.6	8985.2
20°	8994.8	8941.6	8980.3	9115.7	9545.8	10082.3	10778.3	11256.8	10686.5	10643.0	9439.5
22.5°	9347.6	9275.2	9265.5	9352.5	9661.8	10217.7	11227.8	12088.1	11498.5	11522.6	10005.0
25°	9623.1	9661.8	9628.0	9623.1	9816.5	10420.6	11822.3	13079.0	12600.5	12460.3	10672.0
27.5°	10096.8	10188.6	10121.0	10212.8	10169.3	10725.1	12247.6	14176.1	13789.5	13600.9	11276.1
30°	10754.1	10802.5	10739.6	10739.6	10609.2	11150.5	12634.3	15321.7	15162.2	14906.0	11986.6
32.5°	11619.3	11691.8	11566.2	11493.7	11474.3	11783.7	13330.3	16452.6	16723.3	16505.8	12929.1
35°	12764.8	12721.3	12571.5	12503.8	12242.8	12755.1	14364.6	17752.8	18463.3	18076.7	14069.8
37.5°	13775.0	13707.3	13697.6	13320.6	13383.5	13804.0	15244.3	18738.8	20150.1	20038.9	15273.3
40°	14717.5	14780.3	14881.8	14669.1	14572.5	15036.5	16268.9	19492.8	21460.0	21416.5	16201.3
42.5°	15727.7	15669.6	15848.5	15669.6	15524.6	16181.9	17380.6	20014.8	22610.3	22252.6	17172.8
45°	17192.1	17008.5	17071.3	17085.8	16979.4	17221.1	17839.8	20391.8	23417.4	23378.8	17883.3
47.5°	18415.0	18419.8	18313.4	18231.3	17907.4	18149.2	18352.1	20628.6	24345.4	24282.6	18158.8
50°	18869.3	18806.5	19115.8	19294.6	19313.9	18821.0	18753.3	20759.1	24833.6	24558.1	18434.3
52.5°	17235.6	17293.7	17781.8	18845.2	19459.0	19512.1	19222.1	21029.8	25031.8	24973.8	18656.6
55°	13871.6	14151.9	14954.3	16181.9	17636.8	19236.7	19729.6	21310.1	25138.1	25089.7	19642.7
56°	12194.4	12412.0	13456.0	14417.8	16244.8	18236.1	19410.6	21609.8	25220.3	25447.4	19874.7
57.5°	9816.5	10067.8	10817.0	11909.3	14065.0	16331.8	18530.9	21242.5	24901.3	24988.3	20043.8
60°	6138.3	6162.5	7061.5	7781.7	9299.3	11513.0	14142.3	18482.6	23045.3	22919.6	18004.1
62.5°	4026.2	4031.0	4847.8	5437.5	6128.6	6636.2	8323.0	12257.3	17003.6	16781.3	12817.9
65°	2827.5	2890.4	3523.5	4311.4	4591.7	4325.8	4272.7	6462.2	9497.5	9178.5	6887.5
67.5°	2068.7	2073.5	2634.2	3480.0	3886.0	3291.5	2672.8	3156.2	3760.4	3750.6	3190.0
70°	1367.8	1425.8	1856.0	2600.3	3064.3	2643.8	2184.6	2257.2	2392.5	2392.5	2373.2
72.5°	797.5	850.7	1135.8	1648.1	1720.6	1653.0	1730.4	1933.3	2020.3	2015.5	1991.3
75°	454.3	478.5	541.4	686.3	855.5	1010.1	1271.2	1464.5	1551.5	1604.7	1541.8
77.5°	265.8	280.3	319.0	391.5	444.7	546.1	691.2	826.5	942.5	928.0	937.6
80°	140.2	140.2	178.8	232.0	309.4	386.6	459.2	536.5	599.3	613.8	628.4
82.5°	82.1	87.0	116.0	169.1	222.4	275.5	352.8	406.0	464.0	468.9	478.5
85°	43.5	48.3	72.5	111.2	149.9	169.1	174.0	164.4	178.8	169.1	193.3
87.5°	14.5	14.5	24.2	19.3	19.3	24.2	29.0	29.0	38.7	38.7	38.7
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°	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0	7134.0
2.5°	7172.7	7172.7	7090.5	6935.8	6911.6	6848.8	6790.8	6785.9	6742.5	6703.8	6684.5
5°	7308.0	7158.2	7037.3	6897.1	6732.8	6655.5	6568.5	6471.8	6433.1	6471.8	6467.0
7.5°	7462.6	7337.0	6974.5	6713.5	6525.0	6447.7	6351.0	6249.5	6259.1	6259.1	6191.5
10°	7612.5	7443.4	6863.3	6529.8	6254.3	6196.3	6143.2	6181.8	6230.2	6239.8	6196.3
12.5°	7863.8	7482.0	6810.1	6346.1	6172.2	6046.5	6080.3	6186.6	6288.1	6259.1	6293.0
15°	8052.3	7515.8	6568.5	6157.7	5940.2	5998.2	6119.0	6191.5	6360.6	6341.3	6375.2
17.5°	8236.0	7535.1	6331.7	5906.3	5814.5	5974.0	6065.8	6273.6	6326.8	6442.8	6486.3
20°	8613.0	7573.8	6090.0	5751.7	5722.6	5906.3	6065.8	6162.5	6278.5	6380.0	6380.0
22.5°	8806.3	7554.5	5930.5	5548.7	5640.5	5756.5	5901.5	6065.8	6065.8	6162.5	6167.3
25°	9048.0	7477.2	5679.2	5452.0	5519.7	5630.8	5795.1	5737.1	5800.0	5800.0	5877.4
27.5°	9323.5	7312.8	5461.7	5278.0	5413.3	5534.2	5558.4	5519.7	5447.2	5437.5	5408.5
30°	9545.8	7109.8	5302.2	5220.0	5331.1	5398.8	5321.5	5239.3	5113.7	5104.0	5036.3
32.5°	9850.3	6858.5	5104.0	5075.0	5200.7	5205.5	5181.3	5055.7	4872.0	4794.6	4717.3
35°	10362.6	6713.5	4954.1	4997.7	5036.3	5021.8	4978.3	4843.0	4659.3	4625.5	4596.5
37.5°	10739.6	6607.2	4799.5	4852.6	4886.5	4905.8	4775.4	4625.5	4630.3	4562.6	4543.4
40°	11165.0	6539.5	4673.8	4698.0	4702.9	4765.7	4606.2	4533.6	4567.5	4524.0	4553.0
42.5°	11711.2	6558.8	4543.4	4524.0	4615.8	4591.7	4514.3	4417.7	4437.0	4306.5	4325.8
45°	12001.1	6689.3	4466.0	4379.0	4480.5	4475.6	4374.2	4282.3	4166.3	3915.0	3924.6
47.5°	12194.4	6723.2	4282.3	4224.4	4330.7	4393.5	4277.5	4064.8	3900.5	3721.7	3678.1
50°	12392.6	6785.9	4195.3	4074.5	4118.0	4267.8	4122.8	3919.9	3760.4	3600.9	3625.0
52.5°	12566.7	6906.8	4026.2	3847.3	3924.6	4089.0	4011.6	3765.1	3591.2	3460.6	3422.0
55°	13340.0	7177.4	3741.0	3509.0	3692.6	3900.5	3857.0	3557.3	3368.9	3301.1	3291.5
56°	13460.8	7187.2	3591.2	3393.0	3562.2	3837.6	3784.5	3465.5	3296.4	3190.0	3194.8
57.5°	13480.1	7071.1	3378.5	3286.6	3431.7	3745.8	3678.1	3393.0	3161.0	3064.3	3035.3
60°	11861.0	5519.7	3112.7	3054.6	3223.8	3465.5	3441.4	3194.8	2933.8	2822.6	2875.8
62.5°	8086.1	4045.5	2904.9	2895.1	2982.1	3219.0	3156.2	2933.8	2716.3	2643.8	2610.0
65°	4707.6	3069.1	2701.8	2663.1	2735.6	2861.3	2904.9	2672.8	2445.7	2397.3	2382.8
67.5°	2779.2	2537.5	2440.8	2378.0	2353.9	2431.1	2465.0	2329.7	2102.5	2034.9	2092.8
70°	2324.8	2257.2	2262.0	2155.7	2097.7	2044.5	2015.5	1894.6	1706.2	1619.2	1595.0
72.5°	2005.8	1976.8	1957.5	1860.8	1807.6	1686.8	1561.1	1440.3	1300.2	1227.7	1232.5
75°	1532.2	1522.5	1532.2	1483.9	1392.0	1295.3	1179.4	1024.6	918.3	826.5	845.8
77.5°	913.5	942.5	957.0	937.6	899.0	812.0	739.5	638.0	536.5	464.0	454.3
80°	628.4	652.5	676.7	652.5	613.8	551.0	473.6	396.4	323.8	285.2	275.5
82.5°	478.5	502.7	517.2	493.0	444.7	377.0	323.8	270.7	212.7	174.0	164.4
85°	174.0	198.2	193.3	232.0	251.3	241.6	207.8	159.5	120.8	87.0	82.1
87.5°	48.3	43.5	48.3	48.3	48.3	43.5	38.7	38.7	38.7	24.2	19.3
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)