

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: P522875

Luminaire Tested: **GALN-SA8B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522875
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-SA8B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38455 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

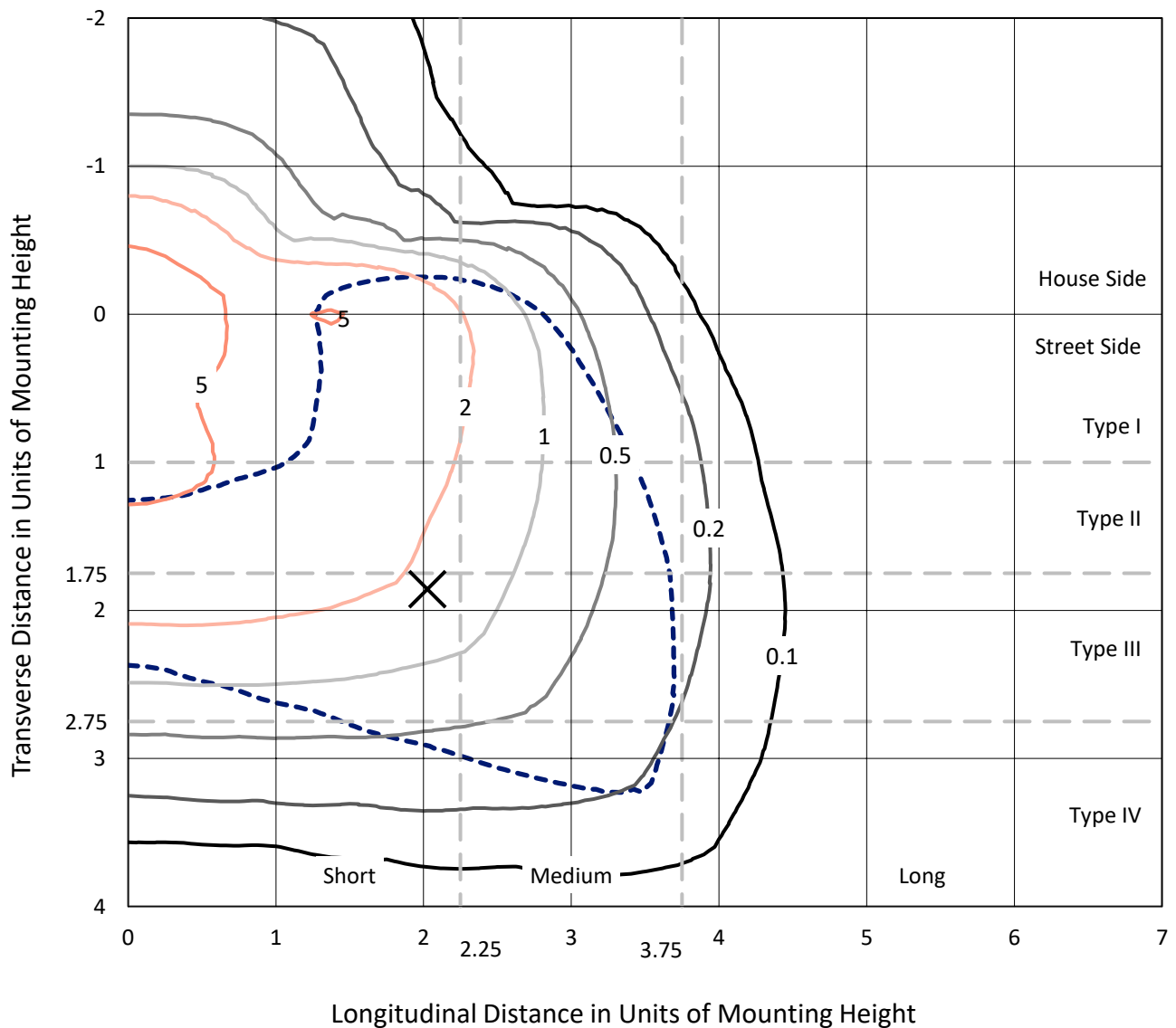
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

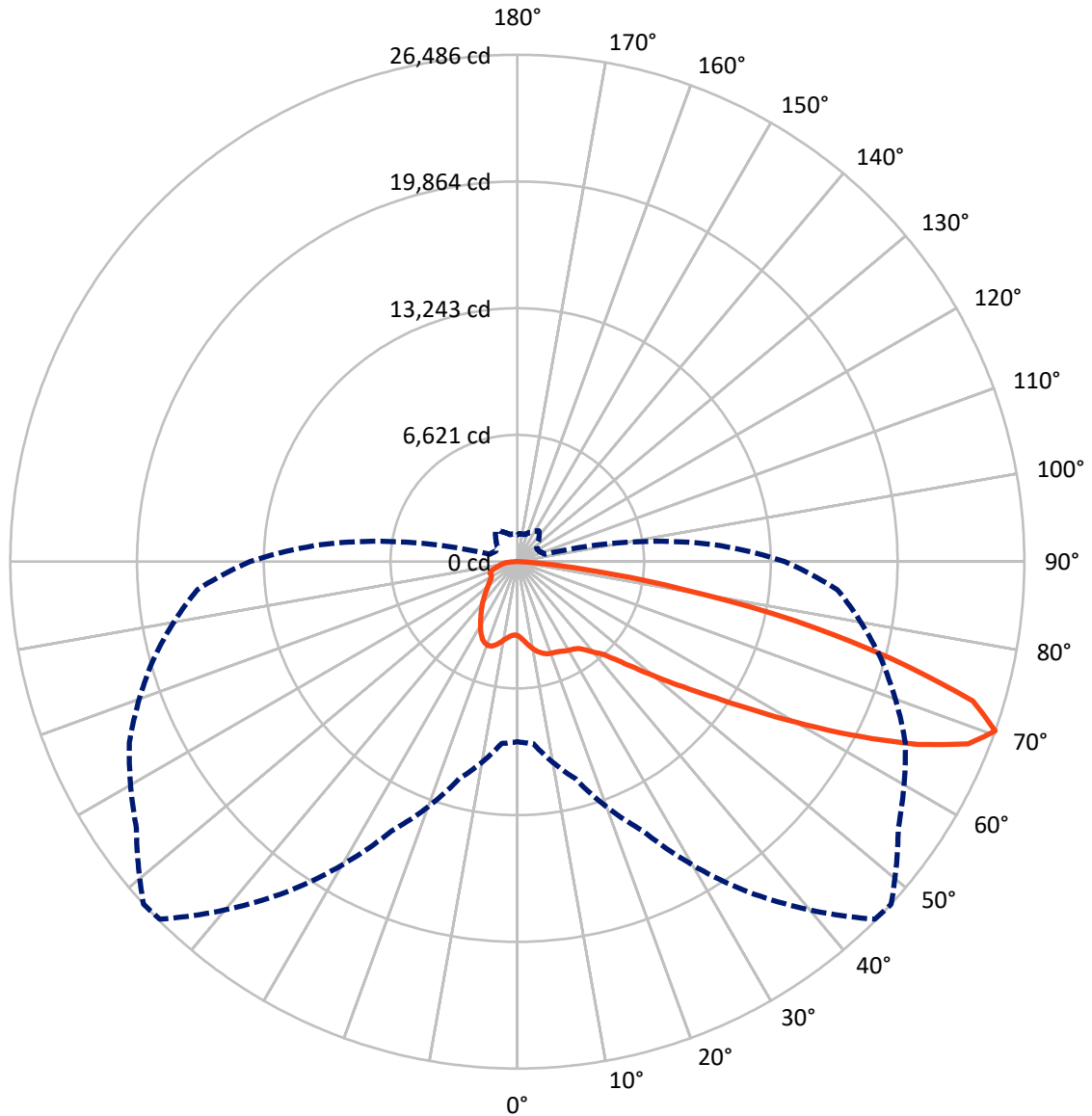
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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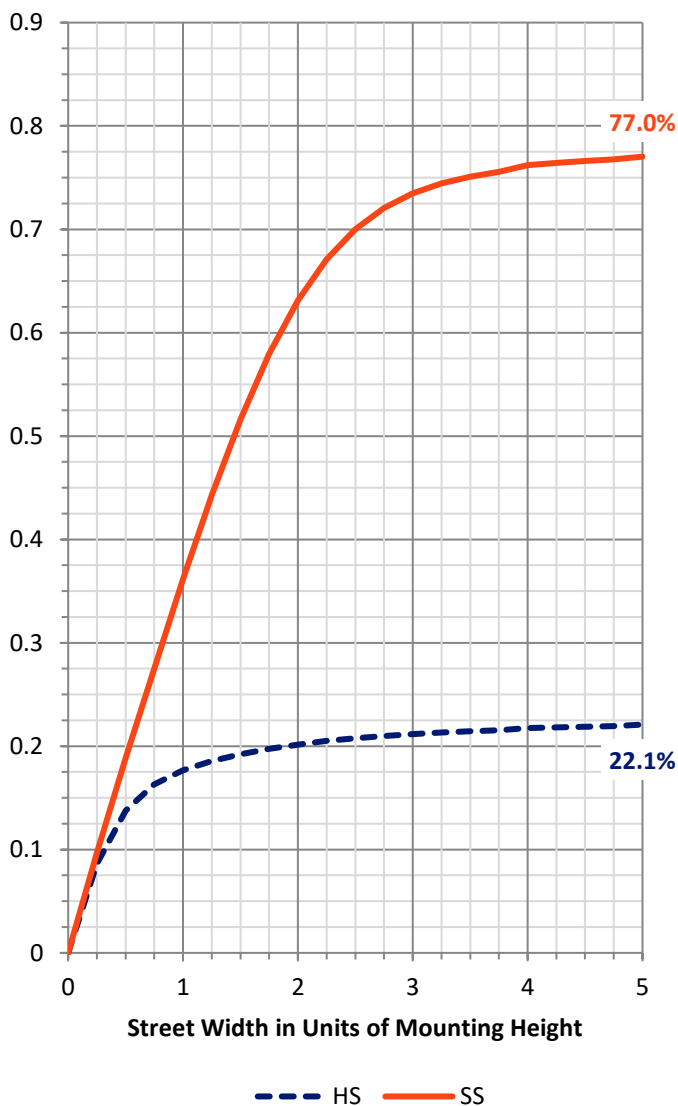
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8707.0	0.0	8707.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29748.0	0.0	29748.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	38455.0	0.0	38455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	1.0
10°-20°	1330.3	3.5
20°-30°	2212.3	5.8
30°-40°	3135.6	8.2
40°-50°	4628.8	12.0
50°-60°	8017.3	20.8
60°-70°	11324.6	29.4
70°-80°	6510.0	16.9
80°-90°	898.2	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°	38455.0	100.0
0°-180°	38455.0	100.0

Coefficient of Utilization



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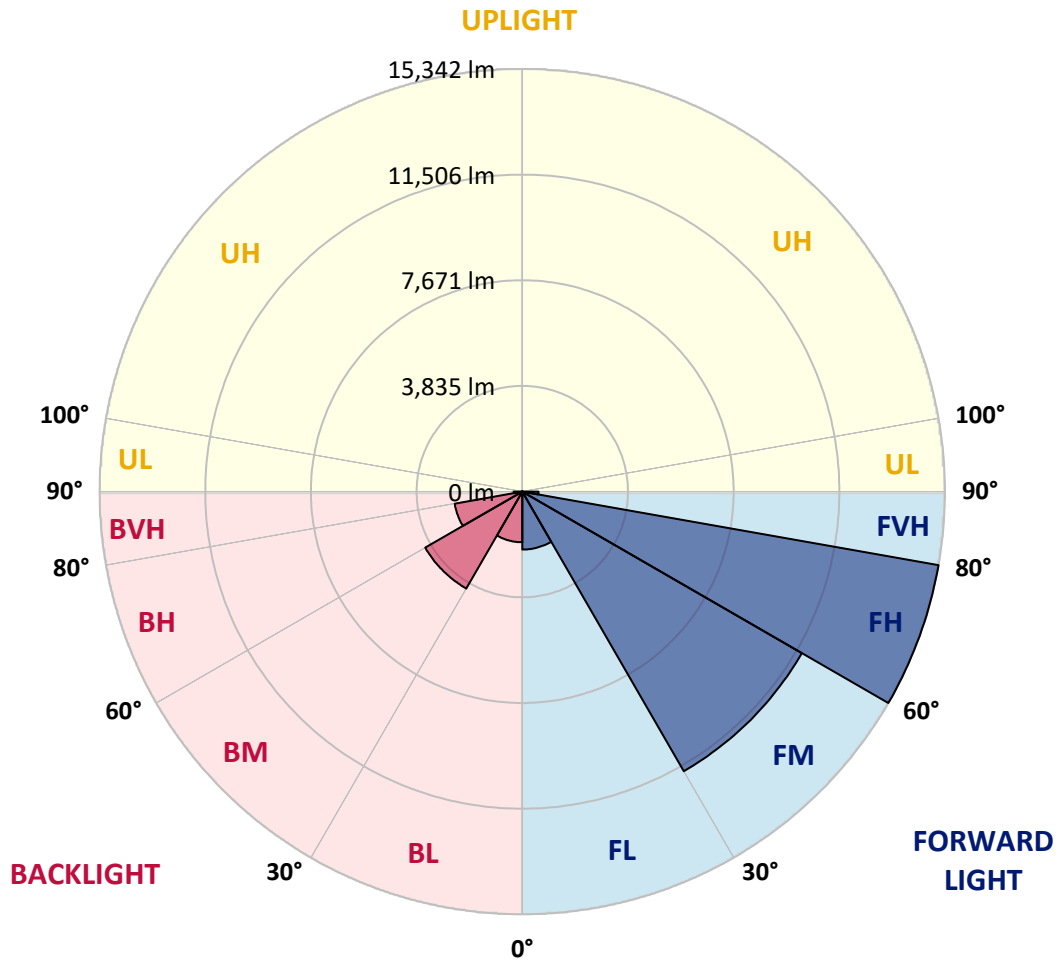
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2102.9	5.5			
FM	(30°-60°)	11716.5	30.5			
FH	(60°-80°)	15341.9	39.9			G5
FVH	(80°-90°)	586.7	1.5			G4/750
BL	(0°-30°)	1837.7	4.8	B3/2500		
BM	(30°-60°)	4065.1	10.6	B3/5000		
BH	(60°-80°)	2492.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	311.5	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4
2.5°	4109.4	4095.0	4092.9	4062.1	4045.6	4014.8	4002.4	3973.6	3938.6	3903.6	3870.7
5°	4432.5	4432.5	4418.1	4374.9	4307.0	4237.0	4206.1	4150.6	4051.8	3971.5	3903.6
7.5°	4763.8	4767.9	4739.1	4675.3	4578.6	4465.4	4436.6	4354.3	4214.4	4097.1	3996.2
10°	5049.8	5049.8	5010.7	4924.3	4802.9	4679.4	4650.6	4558.0	4401.6	4255.5	4123.8
12.5°	5267.9	5267.9	5216.5	5103.3	4971.6	4860.5	4827.6	4739.1	4593.0	4430.4	4263.7
15°	5409.9	5399.6	5342.0	5214.4	5086.9	4990.1	4967.5	4893.4	4759.7	4595.1	4407.8
17.5°	5416.1	5412.0	5356.4	5249.4	5138.3	5072.5	5058.1	5008.7	4903.7	4747.3	4549.8
20°	5296.8	5305.0	5267.9	5191.8	5138.3	5109.5	5103.3	5086.9	5012.8	4866.7	4669.1
22.5°	5169.2	5183.6	5148.6	5107.4	5103.3	5132.1	5136.3	5140.4	5093.0	4951.0	4770.0
25°	5138.3	5148.6	5113.6	5076.6	5099.2	5175.3	5191.8	5208.3	5171.2	5051.9	4889.3
27.5°	5294.7	5286.5	5218.6	5138.3	5152.7	5255.6	5278.2	5296.8	5278.2	5175.3	5037.5
30°	5737.1	5710.4	5574.6	5340.0	5265.9	5337.9	5360.6	5412.0	5412.0	5335.9	5198.0
32.5°	6477.9	6426.5	6177.5	5716.5	5459.3	5416.1	5438.7	5523.1	5566.3	5506.7	5356.4
35°	7377.2	7323.7	6967.7	6348.3	5813.3	5572.5	5566.3	5661.0	5776.2	5642.5	5447.0
37.5°	8280.6	8225.0	7797.0	7101.4	6329.8	5901.7	5864.7	5897.6	5947.0	5702.1	5572.5
40°	9183.9	9118.1	8743.6	7943.1	6961.5	6338.0	6241.3	6093.1	6072.5	5897.6	5815.3
42.5°	10079.1	10019.4	9830.1	8887.6	7718.8	6764.0	6615.8	6360.6	6438.8	6333.9	6261.9
45°	10982.4	10986.6	10784.9	9947.4	8632.4	7550.0	7350.4	6951.2	7136.4	7097.3	7138.5
47.5°	11782.9	11772.6	11700.6	10976.3	9766.3	8562.5	8305.3	7842.2	8159.1	8303.2	8618.0
50°	12558.7	12552.5	12556.7	12143.0	11083.3	9766.3	9482.3	8996.7	9710.7	10210.8	10774.6
52.5°	13669.9	13704.9	13455.9	13346.8	12684.2	11188.2	10875.4	10373.3	11544.2	12332.4	13433.3
55°	14785.2	14756.4	14560.9	14674.1	14359.3	12871.5	12544.3	12145.1	13585.5	14447.8	16102.2
57.5°	15441.7	15452.0	15651.6	16205.1	16427.4	14970.4	14674.1	14365.5	15880.0	16491.2	18476.9
60°	16032.3	16079.6	16653.7	17699.1	18302.0	17548.9	17285.5	16985.0	17985.1	18227.9	20538.8
62.5°	16217.5	16363.6	17365.7	18929.6	20129.3	20458.6	20131.4	19468.8	19989.4	19894.7	21936.1
65°	15293.5	15493.1	17289.6	19390.6	21761.2	23220.1	23012.3	21781.7	21697.4	21127.4	22164.5
67.5°	12861.2	13060.8	15367.6	18423.4	22436.1	25611.3	25403.5	23469.1	22734.5	21242.6	20435.9
70°	9410.3	9535.8	11741.8	15511.6	21080.0	26413.8	26485.9	24292.2	22364.1	19676.6	16779.2
72.5°	5422.3	5700.1	7245.5	10912.5	17221.7	24384.8	24884.9	22580.2	20022.3	16415.0	11731.5
75°	2331.5	2337.7	3350.1	6019.0	11663.6	19600.5	20084.1	18717.7	15723.6	11350.8	6263.9
77.5°	1109.2	1129.7	1473.4	2687.5	6420.3	13542.3	14847.0	13223.4	10056.4	5453.2	2366.5
80°	720.2	734.6	901.3	1333.4	3148.4	7852.5	8762.1	7628.2	4436.6	1948.7	1020.7
82.5°	436.3	440.4	602.9	814.9	1732.7	3555.9	4191.7	3311.0	1893.2	1166.8	600.9
85°	265.5	267.5	366.3	504.2	1051.5	1228.5	1261.4	1251.1	1111.2	763.4	321.0
87.5°	127.6	131.7	189.3	238.7	413.6	380.7	360.1	417.7	524.7	411.6	137.9
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°	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4	3860.4
2.5°	3856.3	3850.1	3835.7	3829.6	3825.4	3827.5	3825.4	3825.4	3827.5	3827.5	3827.5
5°	3874.8	3864.5	3841.9	3841.9	3854.2	3883.1	3909.8	3930.4	3953.0	3951.0	3951.0
7.5°	3955.1	3936.6	3909.8	3918.0	3948.9	3994.2	4041.5	4086.8	4132.0	4136.2	4134.1
10°	4072.4	4053.9	4025.0	4035.3	4084.7	4152.6	4212.3	4278.2	4327.5	4341.9	4337.8
12.5°	4206.1	4169.1	4144.4	4173.2	4251.4	4341.9	4399.6	4448.9	4483.9	4504.5	4496.3
15°	4341.9	4307.0	4278.2	4337.8	4432.5	4516.9	4545.7	4553.9	4560.1	4580.6	4576.5
17.5°	4473.6	4426.3	4416.0	4494.2	4584.8	4621.8	4605.3	4570.4	4543.6	4560.1	4558.0
20°	4590.9	4553.9	4549.8	4628.0	4663.0	4628.0	4558.0	4496.3	4448.9	4453.1	4451.0
22.5°	4702.1	4673.2	4677.4	4710.3	4654.7	4535.4	4420.1	4335.8	4284.3	4294.6	4300.8
25°	4825.5	4796.7	4807.0	4753.5	4570.4	4362.5	4195.8	4123.8	4103.2	4123.8	4138.2
27.5°	4986.0	4967.5	4961.3	4755.6	4420.1	4107.4	3918.0	3891.3	3909.8	3955.1	3977.7
30°	5158.9	5158.9	5126.0	4720.6	4214.4	3800.7	3636.1	3640.2	3704.0	3767.8	3790.5
32.5°	5325.6	5360.6	5257.7	4625.9	3948.9	3502.4	3376.8	3381.0	3436.5	3514.7	3535.3
35°	5463.4	5564.3	5370.8	4453.1	3636.1	3251.3	3156.7	3101.1	3103.2	3162.8	3179.3
37.5°	5652.8	5840.0	5436.7	4195.8	3302.8	3037.3	2930.3	2833.6	2769.8	2745.1	2745.1
40°	5982.0	6257.7	5453.2	3815.1	2987.9	2833.6	2681.3	2566.1	2442.6	2331.5	2310.9
42.5°	6539.7	6887.4	5420.2	3376.8	2703.9	2609.3	2461.1	2319.1	2148.3	1991.9	1979.6
45°	7527.4	7706.4	5331.7	2922.1	2450.8	2393.2	2249.2	2094.8	1913.7	1773.8	1763.5
47.5°	9109.8	8856.7	5214.4	2518.7	2220.4	2203.9	2092.8	1913.7	1732.7	1635.9	1625.7
50°	11420.8	10667.6	5198.0	2226.5	2035.2	2043.4	1952.8	1788.2	1629.8	1549.5	1537.2
52.5°	14202.9	12855.0	5307.0	2020.8	1872.6	1903.5	1858.2	1705.9	1566.0	1498.1	1485.7
55°	16902.7	14822.3	5372.9	1860.2	1720.3	1777.9	1784.1	1656.5	1528.9	1461.0	1452.8
57.5°	19094.3	16303.9	5080.7	1714.1	1588.6	1677.1	1722.4	1627.7	1510.4	1459.0	1450.7
60°	20619.1	17003.5	4249.3	1584.5	1491.9	1596.8	1699.7	1629.8	1555.7	1561.9	1566.0
62.5°	21104.7	16692.8	3187.5	1487.8	1426.1	1570.1	1736.8	1714.1	1638.0	1685.3	1693.6
65°	20300.1	15408.8	2310.9	1411.6	1368.4	1588.6	1847.9	1775.9	1609.2	1644.2	1644.2
67.5°	17606.5	13274.8	1798.5	1341.7	1302.6	1623.6	1959.0	1769.7	1541.3	1582.4	1545.4
70°	13966.2	10268.4	1498.1	1263.5	1232.6	1572.2	1969.3	1705.9	1461.0	1469.3	1399.3
72.5°	9268.3	6751.6	1288.2	1189.4	1125.6	1413.7	1884.9	1623.6	1382.8	1335.5	1265.5
75°	4541.5	3366.5	1123.6	1096.8	985.7	1230.6	1769.7	1545.4	1298.5	1224.4	1185.3
77.5°	1759.4	1432.2	958.9	979.5	858.1	1084.5	1617.4	1434.3	1187.3	1086.5	1055.6
80°	854.0	812.8	786.1	816.9	705.8	923.9	1477.5	1337.6	1084.5	973.3	928.1
82.5°	530.9	502.1	602.9	635.9	543.3	843.7	1401.4	1255.3	954.8	806.7	769.6
85°	269.6	288.1	403.3	434.2	388.9	670.8	1154.4	942.5	689.4	572.1	576.2
87.5°	102.9	137.9	212.0	228.4	207.8	353.9	635.9	549.4	442.4	300.4	277.8
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)