

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: P522823

Luminaire Tested: **GALN-SA6D-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522823
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-SA6D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42764 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

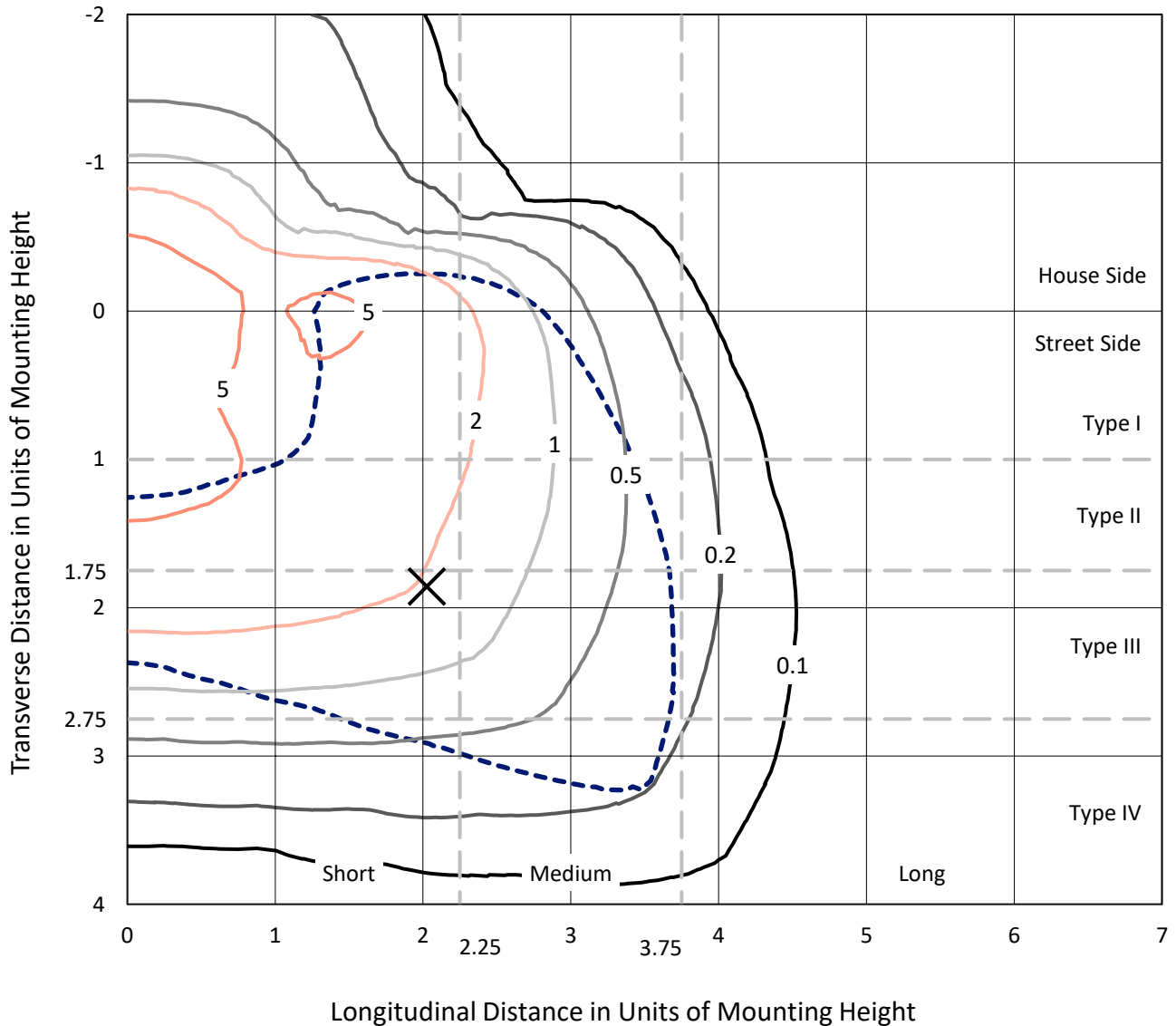
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

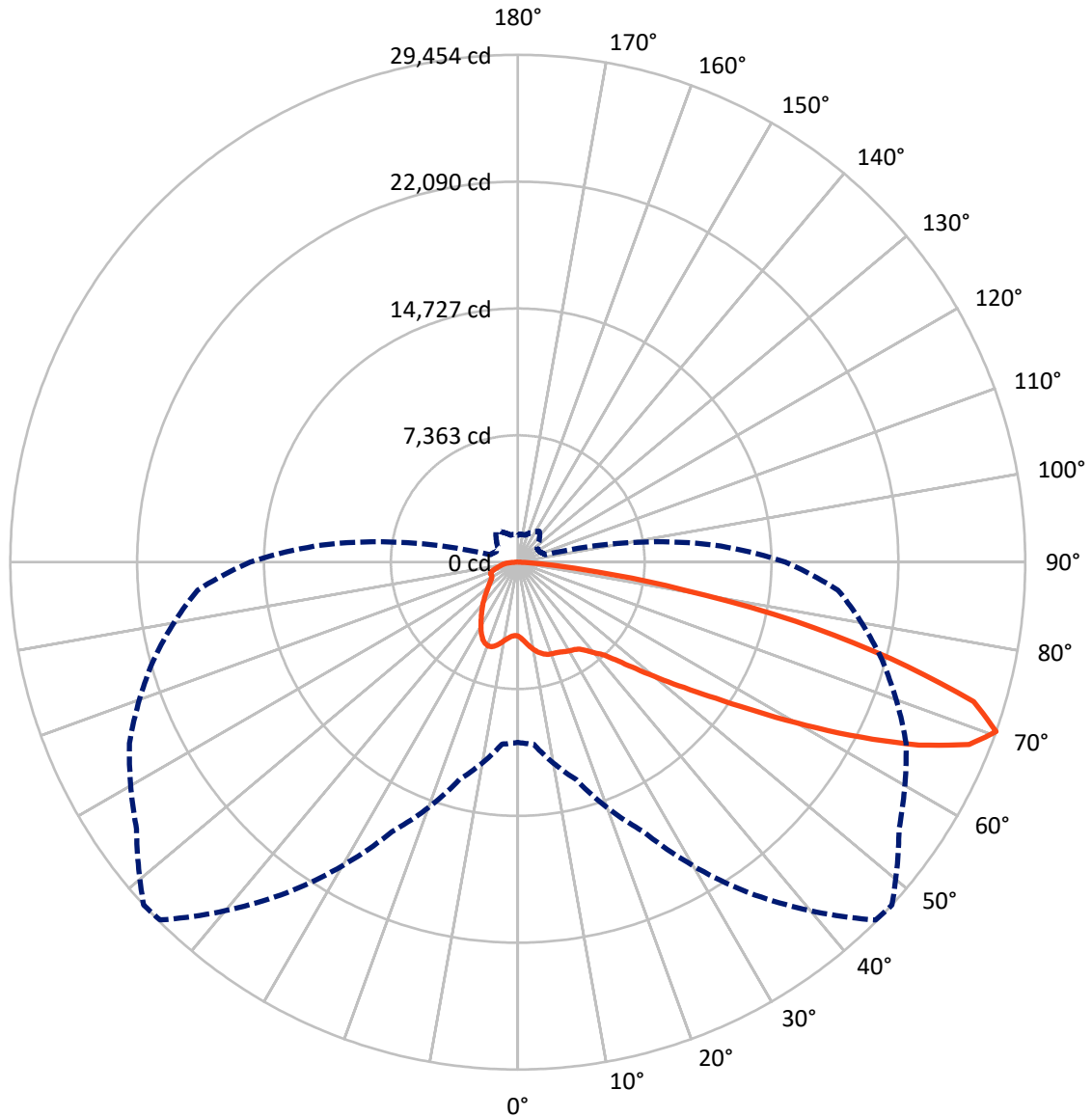
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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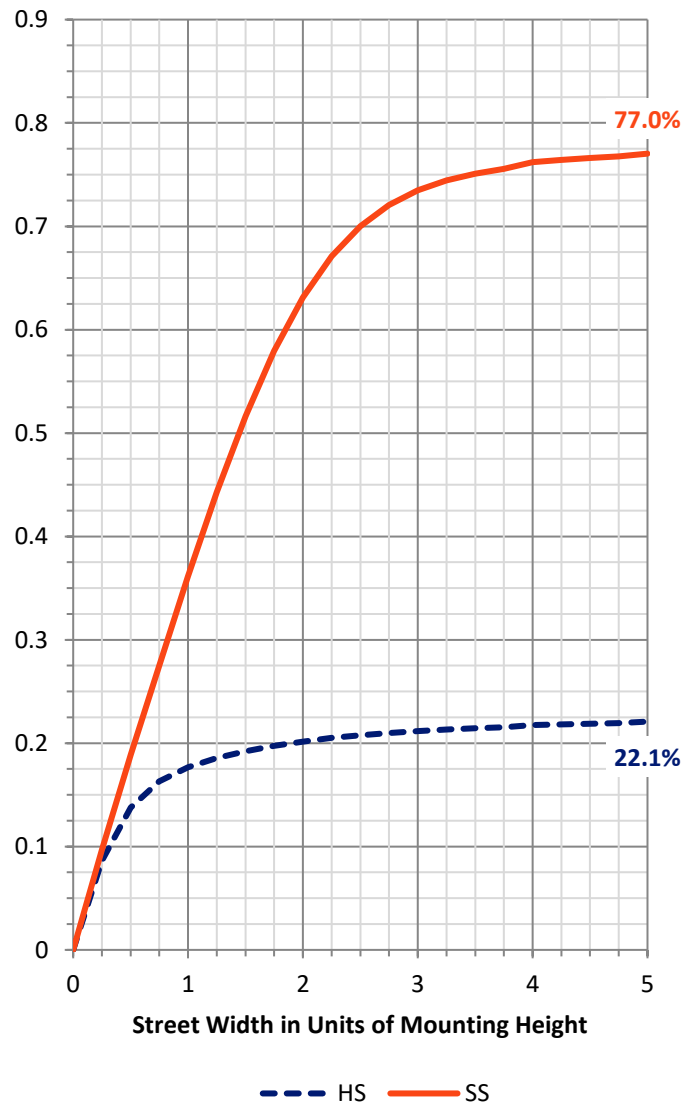
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9682.6	0.0	9682.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	33081.4	0.0	33081.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	42764.0	0.0	42764.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.5	1.0
10°-20°	1479.4	3.5
20°-30°	2460.2	5.8
30°-40°	3486.9	8.2
40°-50°	5147.5	12.0
50°-60°	8915.6	20.8
60°-70°	12593.6	29.4
70°-80°	7239.5	16.9
80°-90°	998.9	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°	42764.0	100.0
0°-180°	42764.0	100.0



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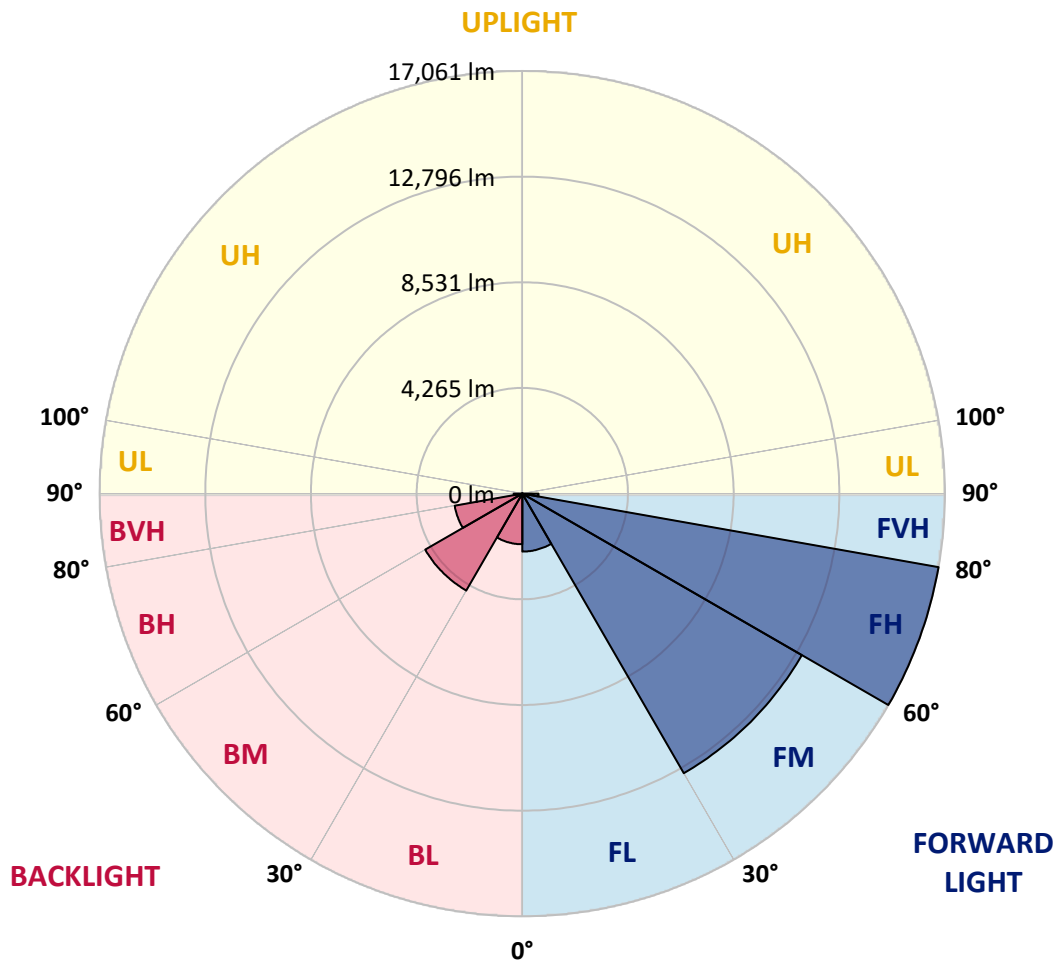
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2338.5	5.5			
FM	(30°-60°)	13029.4	30.5			
FH	(60°-80°)	17061.1	39.9			G5
FVH	(80°-90°)	652.5	1.5			G4/750
BL	(0°-30°)	2043.6	4.8	B3/2500		
BM	(30°-60°)	4520.6	10.6	B3/5000		
BH	(60°-80°)	2772.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	346.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-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°	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0
2.5°	4569.9	4553.9	4551.6	4517.3	4498.9	4464.6	4450.9	4418.9	4379.9	4341.0	4304.4
5°	4929.2	4929.2	4913.1	4865.1	4789.6	4711.8	4677.4	4615.7	4505.8	4416.6	4341.0
7.5°	5297.6	5302.2	5270.1	5199.2	5091.6	4965.8	4933.7	4842.2	4686.6	4556.2	4444.0
10°	5615.7	5615.7	5572.2	5476.1	5341.1	5203.8	5171.7	5068.8	4894.8	4732.4	4585.9
12.5°	5858.2	5858.2	5801.0	5675.2	5528.7	5405.1	5368.5	5270.1	5107.7	4926.9	4741.5
15°	6016.1	6004.7	5940.6	5798.7	5656.9	5549.3	5524.1	5441.8	5293.0	5109.9	4901.7
17.5°	6023.0	6018.4	5956.6	5837.6	5714.1	5640.8	5624.8	5569.9	5453.2	5279.3	5059.6
20°	5890.3	5899.4	5858.2	5773.6	5714.1	5682.0	5675.2	5656.9	5574.5	5412.0	5192.3
22.5°	5748.4	5764.4	5725.5	5679.7	5675.2	5707.2	5711.8	5716.4	5663.7	5505.8	5304.5
25°	5714.1	5725.5	5686.6	5645.4	5670.6	5755.3	5773.6	5791.9	5750.7	5618.0	5437.2
27.5°	5888.0	5878.8	5803.3	5714.1	5730.1	5844.5	5869.7	5890.3	5869.7	5755.3	5601.9
30°	6380.0	6350.2	6199.2	5938.3	5856.0	5936.0	5961.2	6018.4	6018.4	5933.8	5780.4
32.5°	7203.8	7146.6	6869.7	6357.1	6071.1	6023.0	6048.2	6142.0	6190.1	6123.7	5956.6
35°	8203.8	8144.3	7748.4	7059.6	6464.7	6196.9	6190.1	6295.3	6423.5	6274.7	6057.3
37.5°	9208.4	9146.6	8670.7	7897.2	7039.0	6563.1	6521.9	6558.5	6613.4	6341.1	6196.9
40°	10213.0	10139.8	9723.3	8833.1	7741.6	7048.2	6940.6	6775.9	6753.0	6558.5	6466.9
42.5°	11208.5	11142.1	10931.6	9883.5	8583.7	7521.9	7357.1	7073.4	7160.3	7043.6	6963.5
45°	12213.1	12217.6	11993.4	11062.0	9599.7	8396.0	8174.1	7730.1	7936.1	7892.6	7938.4
47.5°	13103.2	13091.8	13011.7	12206.2	10860.6	9521.9	9235.9	8721.0	9073.4	9233.6	9583.7
50°	13966.0	13959.1	13963.7	13503.7	12325.2	10860.6	10544.8	10004.8	10798.8	11354.9	11981.9
52.5°	15201.7	15240.6	14963.7	14842.4	14105.5	12441.9	12094.1	11535.7	12837.8	13714.2	14938.5
55°	16442.0	16409.9	16192.5	16318.4	15968.3	14313.8	13949.9	13506.0	15107.9	16066.7	17906.5
57.5°	17172.0	17183.4	17405.4	18021.0	18268.1	16647.9	16318.4	15975.1	17659.4	18339.0	20547.3
60°	17828.7	17881.4	18519.8	19682.3	20352.8	19515.3	19222.3	18888.2	20000.4	20270.4	22840.3
62.5°	18034.7	18197.2	19311.6	21050.8	22384.9	22751.0	22387.2	21650.3	22229.3	22124.0	24394.1
65°	17007.2	17229.2	19226.9	21563.4	24199.6	25822.0	25590.9	24222.4	24128.6	23494.7	24648.1
67.5°	14302.3	14524.3	17089.6	20487.8	24950.1	28481.1	28250.0	26098.9	25282.0	23622.9	22725.8
70°	10464.7	10604.3	13057.5	17249.8	23442.1	29373.6	29453.7	27014.3	24870.1	21881.4	18659.4
72.5°	6029.9	6338.8	8057.4	12135.3	19151.4	27117.2	27673.3	25110.3	22265.9	18254.4	13046.0
75°	2592.7	2599.6	3725.5	6693.5	12970.5	21796.8	22334.5	20815.1	17485.5	12622.7	6965.8
77.5°	1233.4	1256.3	1638.5	2988.6	7139.7	15059.8	16510.6	14705.1	11183.3	6064.2	2631.6
80°	800.9	816.9	1002.3	1482.9	3501.2	8732.4	9743.9	8483.0	4933.7	2167.1	1135.0
82.5°	485.1	489.7	670.5	906.2	1926.8	3954.3	4661.4	3682.0	2105.3	1297.5	668.2
85°	295.2	297.5	407.3	560.7	1169.4	1366.2	1402.8	1391.3	1235.7	849.0	357.0
87.5°	141.9	146.5	210.5	265.5	460.0	423.3	400.5	464.5	583.5	457.7	153.3
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°	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0	4293.0
2.5°	4288.4	4281.5	4265.5	4258.7	4254.1	4256.4	4254.1	4254.1	4256.4	4256.4	4256.4
5°	4309.0	4297.6	4272.4	4272.4	4286.1	4318.2	4347.9	4370.8	4396.0	4393.7	4393.7
7.5°	4398.3	4377.7	4347.9	4357.1	4391.4	4441.7	4494.4	4544.7	4595.1	4599.6	4597.3
10°	4528.7	4508.1	4476.1	4487.5	4542.4	4617.9	4684.3	4757.5	4812.5	4828.5	4823.9
12.5°	4677.4	4636.2	4608.8	4640.8	4727.8	4828.5	4892.5	4947.5	4986.4	5009.3	5000.1
15°	4828.5	4789.6	4757.5	4823.9	4929.2	5023.0	5055.0	5064.2	5071.0	5093.9	5089.3
17.5°	4974.9	4922.3	4910.9	4997.8	5098.5	5139.7	5121.4	5082.5	5052.7	5071.0	5068.8
20°	5105.4	5064.2	5059.6	5146.6	5185.5	5146.6	5068.8	5000.1	4947.5	4952.0	4949.8
22.5°	5228.9	5196.9	5201.5	5238.1	5176.3	5043.6	4915.4	4821.6	4764.4	4775.8	4782.7
25°	5366.2	5334.2	5345.6	5286.1	5082.5	4851.4	4666.0	4585.9	4563.0	4585.9	4601.9
27.5°	5544.7	5524.1	5517.3	5288.4	4915.4	4567.6	4357.1	4327.3	4347.9	4398.3	4423.4
30°	5737.0	5737.0	5700.3	5249.5	4686.6	4226.6	4043.6	4048.1	4119.1	4190.0	4215.2
32.5°	5922.3	5961.2	5846.8	5144.3	4391.4	3894.8	3755.2	3759.8	3821.6	3908.5	3931.4
35°	6075.6	6187.8	5972.7	4952.0	4043.6	3615.6	3510.4	3448.6	3450.9	3517.2	3535.5
37.5°	6286.2	6494.4	6045.9	4666.0	3672.8	3377.6	3258.6	3151.1	3080.2	3052.7	3052.7
40°	6652.3	6958.9	6064.2	4242.6	3322.7	3151.1	2981.8	2853.6	2716.3	2592.7	2569.8
42.5°	7272.5	7659.2	6027.6	3755.2	3006.9	2901.7	2736.9	2579.0	2389.1	2215.1	2201.4
45°	8370.9	8570.0	5929.2	3249.5	2725.5	2661.4	2501.2	2329.6	2128.2	1972.6	1961.1
47.5°	10130.6	9849.2	5798.7	2801.0	2469.2	2450.8	2327.3	2128.2	1926.8	1819.3	1807.8
50°	12700.5	11862.9	5780.4	2476.0	2263.2	2272.4	2171.7	1988.6	1812.4	1723.1	1709.4
52.5°	15794.4	14295.5	5901.7	2247.2	2082.4	2116.7	2066.4	1897.1	1741.5	1665.9	1652.2
55°	18796.7	16483.2	5974.9	2068.7	1913.1	1977.2	1984.0	1842.1	1700.3	1624.7	1615.6
57.5°	21233.8	18130.8	5650.0	1906.2	1766.6	1865.0	1915.4	1810.1	1679.7	1622.5	1613.3
60°	22929.5	18908.8	4725.5	1762.0	1659.1	1775.8	1890.2	1812.4	1730.0	1736.9	1741.5
62.5°	23469.6	18563.3	3544.7	1654.5	1585.8	1746.0	1931.4	1906.2	1821.5	1874.2	1883.3
65°	22574.8	17135.4	2569.8	1569.8	1521.8	1766.6	2055.0	1974.9	1789.5	1828.4	1828.4
67.5°	19579.3	14762.3	2000.0	1492.0	1448.5	1805.5	2178.5	1968.0	1714.0	1759.8	1718.6
70°	15531.2	11419.0	1665.9	1405.1	1370.7	1748.3	2190.0	1897.1	1624.7	1633.9	1556.1
72.5°	10306.8	7508.2	1432.5	1322.7	1251.7	1572.1	2096.2	1805.5	1537.8	1485.2	1407.4
75°	5050.4	3743.8	1249.5	1219.7	1096.1	1368.4	1968.0	1718.6	1444.0	1361.6	1318.1
77.5°	1956.6	1592.7	1066.4	1089.3	954.3	1206.0	1798.7	1595.0	1320.4	1208.3	1173.9
80°	949.7	903.9	874.2	908.5	784.9	1027.5	1643.1	1487.4	1206.0	1082.4	1032.1
82.5°	590.4	558.4	670.5	707.1	604.1	938.2	1558.4	1395.9	1061.8	897.0	855.9
85°	299.8	320.4	448.5	482.8	432.5	746.0	1283.8	1048.1	766.6	636.2	640.7
87.5°	114.4	153.3	235.7	254.0	231.1	393.6	707.1	611.0	492.0	334.1	308.9
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)