

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: P652627

Luminaire Tested: **GALN-SA9B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
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-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38122.5 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

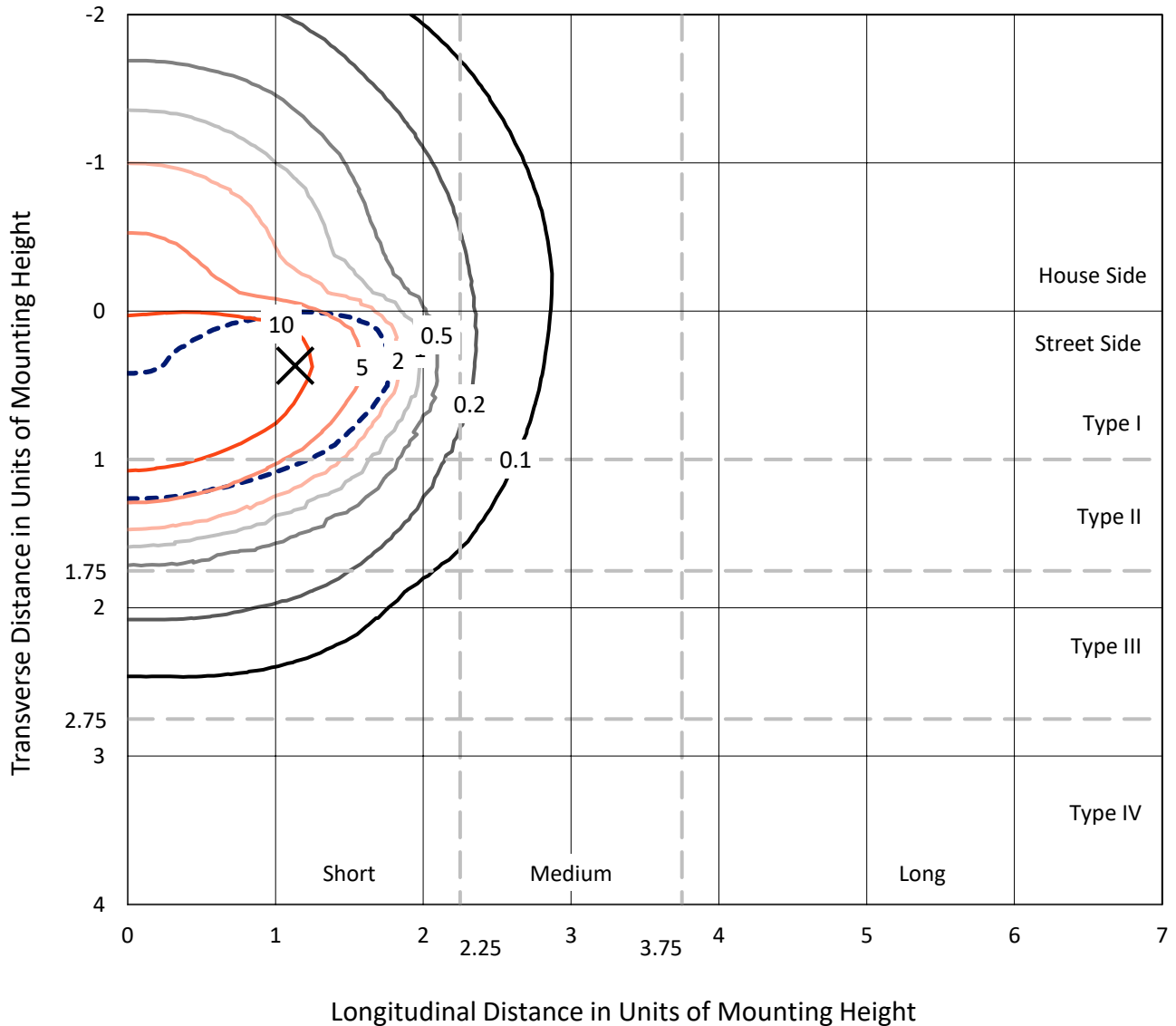
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

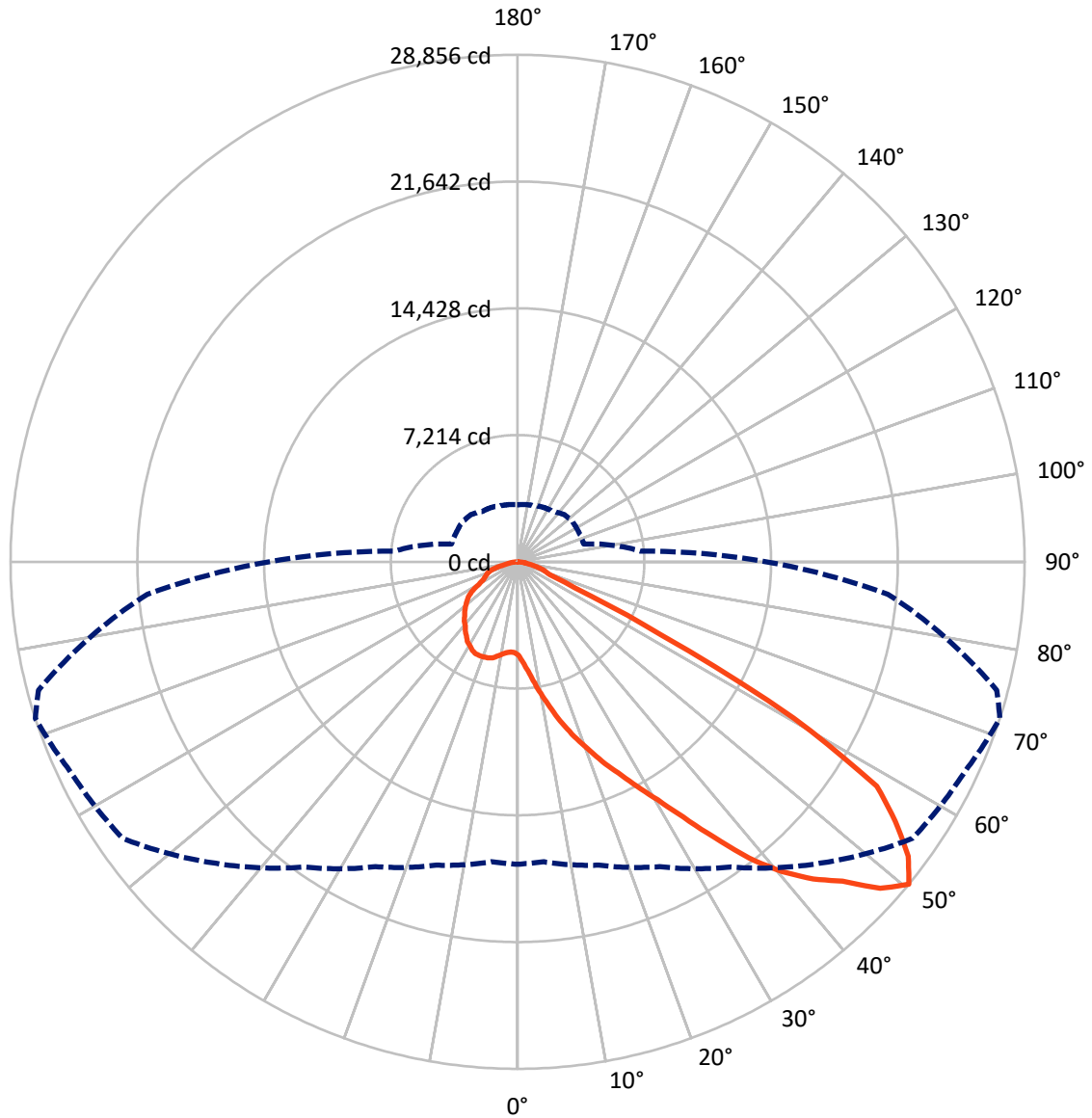
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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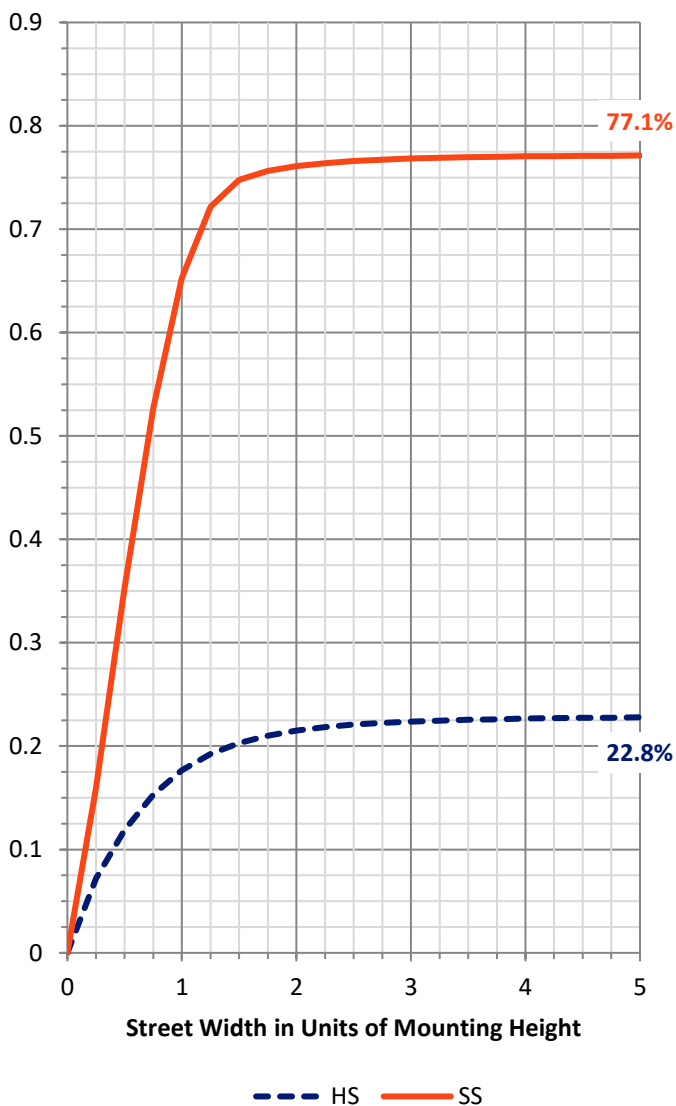
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8734.1	0.0	8734.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	29388.4	0.0	29388.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	38122.5	0.0	38122.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.2	1.6
10°-20°	2333.6	6.1
20°-30°	4524.7	11.9
30°-40°	7495.9	19.7
40°-50°	10488.3	27.5
50°-60°	8848.2	23.2
60°-70°	2696.9	7.1
70°-80°	946.2	2.5
80°-90°	164.5	0.4
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°	38122.5	100.0
0°-180°	38122.5	100.0

**Coefficient of Utilization**



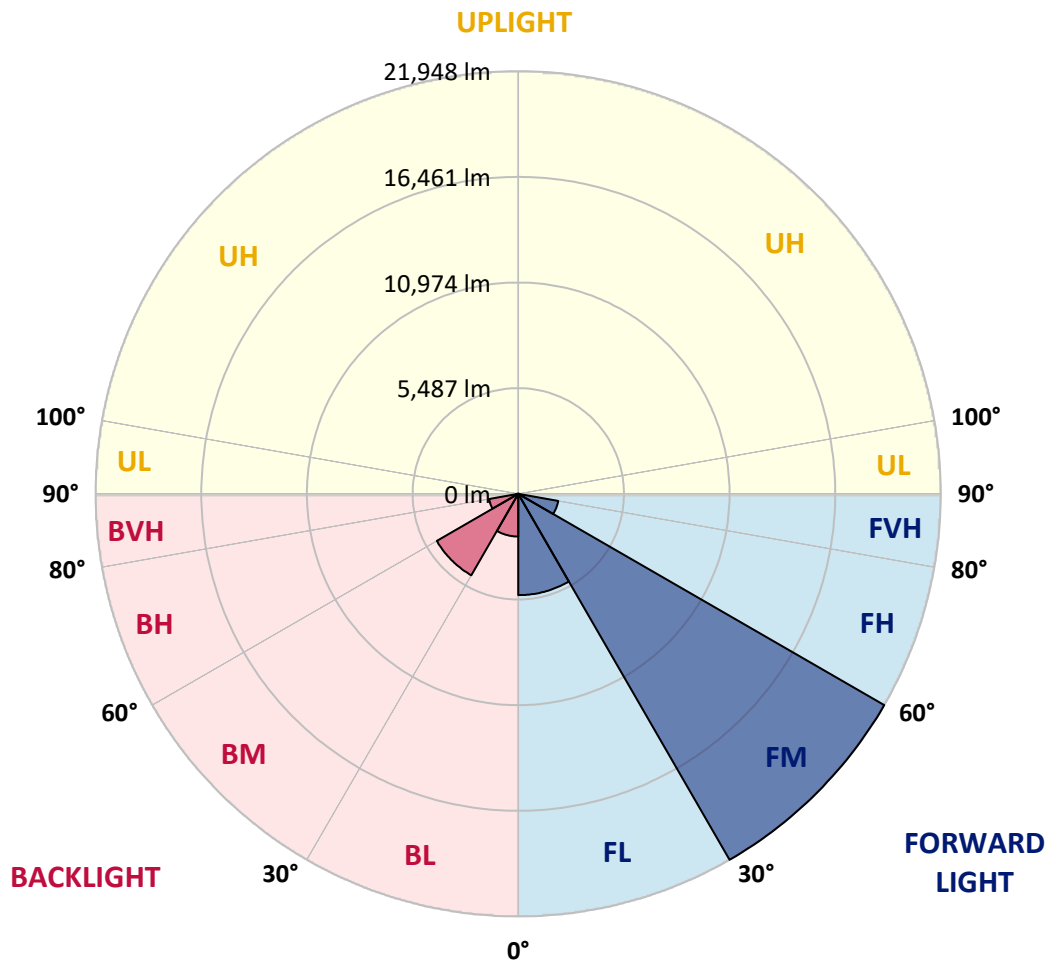
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5262.3	13.8			
FM (30°-60°)	21948.2	57.6			
FH (60°-80°)	2104.3	5.5			G2/5000
FVH (80°-90°)	73.7	0.2			G1/100
BL (0°-30°)	2220.2	5.8	B3/2500		
BM (30°-60°)	4884.2	12.8	B3/5000		
BH (60°-80°)	1538.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	90.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0
2.5°	6826.0	6783.5	6656.1	6613.7	6462.7	6189.1	6094.8	5816.4	5698.5	5590.0	5462.6
5°	8632.7	8434.6	8420.4	8179.8	7830.7	7627.9	7024.1	6618.4	6245.7	6057.1	5708.0
7.5°	9783.7	9788.4	9788.4	9590.3	9312.0	8797.8	8255.3	7524.1	6962.7	6684.4	6090.0
10°	10878.2	10783.8	10731.9	10713.0	10524.4	10024.3	9444.1	8538.3	7769.4	7443.9	6377.8
12.5°	11651.8	11571.6	11689.5	11628.2	11491.4	11165.9	10618.7	9585.5	8623.3	8184.5	6840.1
15°	12019.7	12076.3	12170.7	12340.5	12279.2	12156.5	11552.7	10661.1	9543.2	9047.8	7250.5
17.5°	12585.8	12430.1	12543.3	12755.6	12925.4	12868.8	12524.5	11439.5	10453.5	9845.0	7802.5
20°	12982.1	12892.4	12949.0	13194.4	13321.7	13642.4	13463.2	12458.4	11326.3	10684.7	8453.4
22.5°	14114.3	13982.1	13798.1	13835.9	13883.1	14109.5	14151.9	13576.4	12340.5	11661.2	9071.4
25°	15510.6	15387.9	15170.9	14949.2	14812.4	14769.9	14916.1	14453.8	13312.3	12609.4	9736.5
27.5°	17048.4	16840.9	16704.0	16246.4	15878.5	15821.9	15751.1	15501.1	14463.3	13703.8	10486.6
30°	18543.8	18378.6	18194.7	17463.5	17081.4	17020.1	16671.0	16741.8	15713.4	14869.0	11335.7
32.5°	19676.0	19690.1	19270.3	18718.3	18359.8	18034.3	17906.9	18109.8	17317.3	16638.0	12283.9
35°	20591.1	20633.5	20232.6	19732.6	19345.7	19572.2	19515.6	19609.8	19232.5	18402.3	13387.7
37.5°	21482.7	21270.4	20841.1	20600.5	20397.7	20770.3	21251.5	21331.7	21402.4	20426.0	14670.8
40°	21628.9	21647.8	21397.7	21567.6	21312.9	21874.2	22992.2	22888.4	23176.2	22322.3	16062.4
42.5°	21421.4	21463.7	21562.8	21803.4	22416.7	23091.3	24751.7	24327.2	24676.3	23916.8	17416.4
45°	21081.7	20907.2	21029.8	21945.0	23006.3	24506.5	26360.4	26030.1	25916.9	25280.1	19029.6
47.5°	19458.9	19638.2	20020.3	21147.7	22742.2	24751.7	27502.0	27426.4	27766.1	27318.0	20496.8
50°	17208.8	17138.0	17873.9	19142.8	21199.6	24270.6	27440.7	28124.6	28855.8	28233.1	21152.4
52.5°	12887.7	13265.1	13897.2	15472.8	18407.0	21647.8	26100.9	27242.5	27836.8	27704.8	20624.1
55°	8146.8	8260.0	8642.1	10514.9	13156.6	17373.9	22374.2	25020.7	26082.0	26577.4	20138.2
57.5°	3957.8	3745.6	4212.6	5717.4	7599.6	11684.8	17256.0	21794.0	24100.8	24997.0	19081.5
60°	2066.2	2146.4	2330.3	2868.1	3929.5	6066.5	10755.5	14524.7	18048.4	19425.9	14463.3
62.5°	1712.4	1740.7	1863.3	2132.2	2613.4	3490.8	5491.0	7080.7	9203.5	10444.1	8227.0
65°	1452.9	1467.1	1599.2	1778.5	2085.1	2457.7	2825.7	2957.8	3580.5	3674.7	2924.7
67.5°	1212.4	1226.5	1368.1	1537.9	1736.0	1835.1	1929.4	1919.9	1990.7	1962.4	1957.7
70°	934.0	948.1	1094.4	1273.7	1372.8	1316.2	1608.6	1674.7	1702.9	1726.6	1764.2
72.5°	674.6	702.9	816.1	943.4	891.5	1023.7	1325.6	1424.7	1462.3	1476.5	1523.7
75°	490.6	500.1	528.3	490.6	566.1	712.3	934.0	1056.7	1103.8	1118.0	1188.8
77.5°	217.0	221.7	226.4	283.1	363.2	443.5	556.7	655.7	721.7	740.6	759.5
80°	113.2	117.9	146.2	193.4	259.4	325.5	405.7	462.3	504.8	509.5	528.3
82.5°	70.7	75.4	103.8	136.8	184.0	240.6	297.2	344.4	377.4	382.1	386.9
85°	33.1	42.5	61.3	84.9	122.6	155.7	160.4	136.8	146.2	151.0	141.5
87.5°	9.4	14.1	18.8	14.1	18.8	18.8	23.5	28.3	28.3	28.3	33.1
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°	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0
2.5°	5391.9	5349.4	5184.3	5123.0	4962.7	4990.9	4906.0	4901.3	4882.4	4877.7	4873.0
5°	5523.9	5391.9	5193.8	5042.8	4953.2	4943.7	4882.4	4882.4	4901.3	4915.5	4882.4
7.5°	5741.0	5590.0	5255.1	5113.5	5033.4	5019.3	4976.8	4943.7	4986.2	4972.1	4934.3
10°	5991.0	5726.8	5373.1	5250.4	5118.3	5085.3	5085.3	5099.4	5028.7	5052.2	5014.5
12.5°	6269.3	5915.5	5523.9	5382.5	5226.8	5207.9	5198.5	5094.7	5132.5	5113.5	5019.3
15°	6623.1	6132.5	5717.4	5476.8	5344.7	5259.8	5137.2	5118.3	5094.7	5047.5	5005.0
17.5°	7005.2	6368.4	5807.0	5505.1	5307.0	5245.7	5151.3	5052.2	4981.5	4990.9	4957.9
20°	7330.7	6585.4	5840.1	5533.4	5278.7	5160.7	5014.5	4953.2	4877.7	4873.0	4868.3
22.5°	7717.5	6877.9	5887.3	5457.9	5193.8	5071.1	4972.1	4863.6	4811.7	4745.6	4778.6
25°	8179.8	6991.1	5896.7	5415.5	5132.5	4915.5	4863.6	4745.6	4726.8	4632.4	4651.2
27.5°	8514.8	7052.4	5821.1	5283.4	4990.9	4825.8	4731.5	4646.5	4613.6	4542.7	4523.9
30°	8962.9	7146.7	5660.8	5118.3	4849.4	4665.4	4608.8	4589.9	4495.6	4420.1	4410.7
32.5°	9472.4	7208.0	5557.0	4948.4	4703.1	4561.7	4589.9	4500.4	4382.4	4316.3	4297.5
35°	9878.0	7231.7	5297.5	4755.0	4604.1	4514.5	4481.4	4462.6	4292.7	4231.4	4184.2
37.5°	10496.0	7179.8	5080.6	4618.3	4495.6	4462.6	4434.3	4306.9	4113.5	4023.8	3957.8
40°	11217.8	7165.6	4802.2	4424.8	4391.8	4429.5	4344.7	4146.6	3877.6	3778.5	3731.4
42.5°	11911.3	7264.6	4627.7	4321.1	4278.6	4292.7	4174.8	3877.6	3745.6	3689.0	3613.4
45°	13071.7	7472.2	4339.9	4160.7	4141.8	4132.3	3990.9	3679.5	3604.0	3533.3	3519.1
47.5°	14119.0	7335.5	4156.0	3995.6	4014.4	3962.5	3660.6	3561.6	3476.7	3405.9	3382.3
50°	14180.3	7009.9	3896.5	3868.2	3872.9	3783.3	3495.5	3429.5	3321.0	3273.8	3240.8
52.5°	13859.5	6476.9	3655.9	3665.3	3679.5	3533.3	3292.7	3245.5	3155.9	3089.8	3071.0
55°	12958.5	5646.6	3420.1	3457.8	3495.5	3217.2	3141.7	3023.8	2953.0	2858.7	2863.4
57.5°	11415.9	4547.5	3089.8	3151.1	3231.4	2924.7	2868.1	2721.9	2618.1	2542.6	2533.2
60°	7651.5	3236.1	2594.5	2618.1	2797.3	2674.7	2670.0	2523.8	2382.2	2316.2	2278.4
62.5°	4514.5	2471.9	2240.8	2217.1	2212.4	2283.1	2401.1	2349.2	2165.2	2037.9	2075.6
65°	2363.4	2137.0	2085.1	2004.9	1957.7	1938.8	2028.4	2052.0	1929.4	1792.6	1783.2
67.5°	1986.0	1986.0	1943.6	1915.2	1849.2	1769.0	1712.4	1636.9	1618.0	1580.3	1533.1
70°	1806.7	1853.9	1839.8	1773.8	1717.1	1627.5	1481.3	1358.6	1240.6	1198.2	1226.5
72.5°	1575.6	1622.8	1622.8	1589.7	1514.2	1377.5	1235.9	1094.4	995.3	919.9	910.5
75°	1212.4	1235.9	1292.5	1254.8	1155.7	1070.8	924.6	778.3	684.0	613.3	599.1
77.5°	773.6	811.4	811.4	806.7	735.9	655.7	561.4	457.6	386.9	335.0	320.8
80°	514.2	537.7	556.7	537.7	490.6	429.2	358.5	287.8	235.9	193.4	184.0
82.5°	377.4	405.7	419.8	401.0	353.8	306.6	254.7	202.8	151.0	117.9	108.5
85°	146.2	151.0	169.8	202.8	198.1	193.4	155.7	113.2	84.9	61.3	56.6
87.5°	37.8	33.1	37.8	37.8	33.1	28.3	28.3	28.3	28.3	14.1	18.8
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)