

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: P647567

Luminaire Tested: **GALN-SA7D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647567
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-SA7D-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA 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: 37074.3 lumens
Efficiency: N/A
Efficacy: 85.6 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

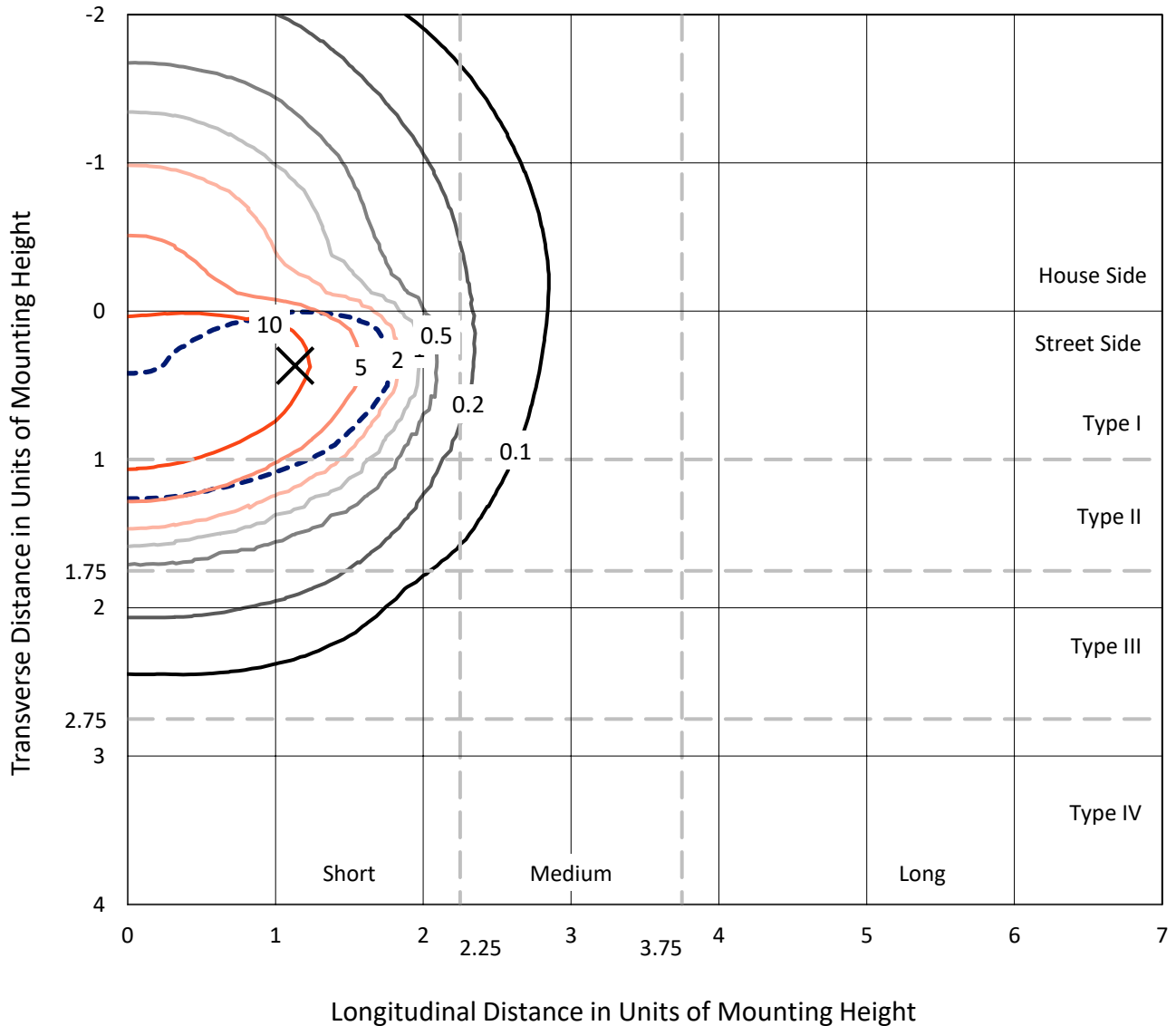
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647567
 CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

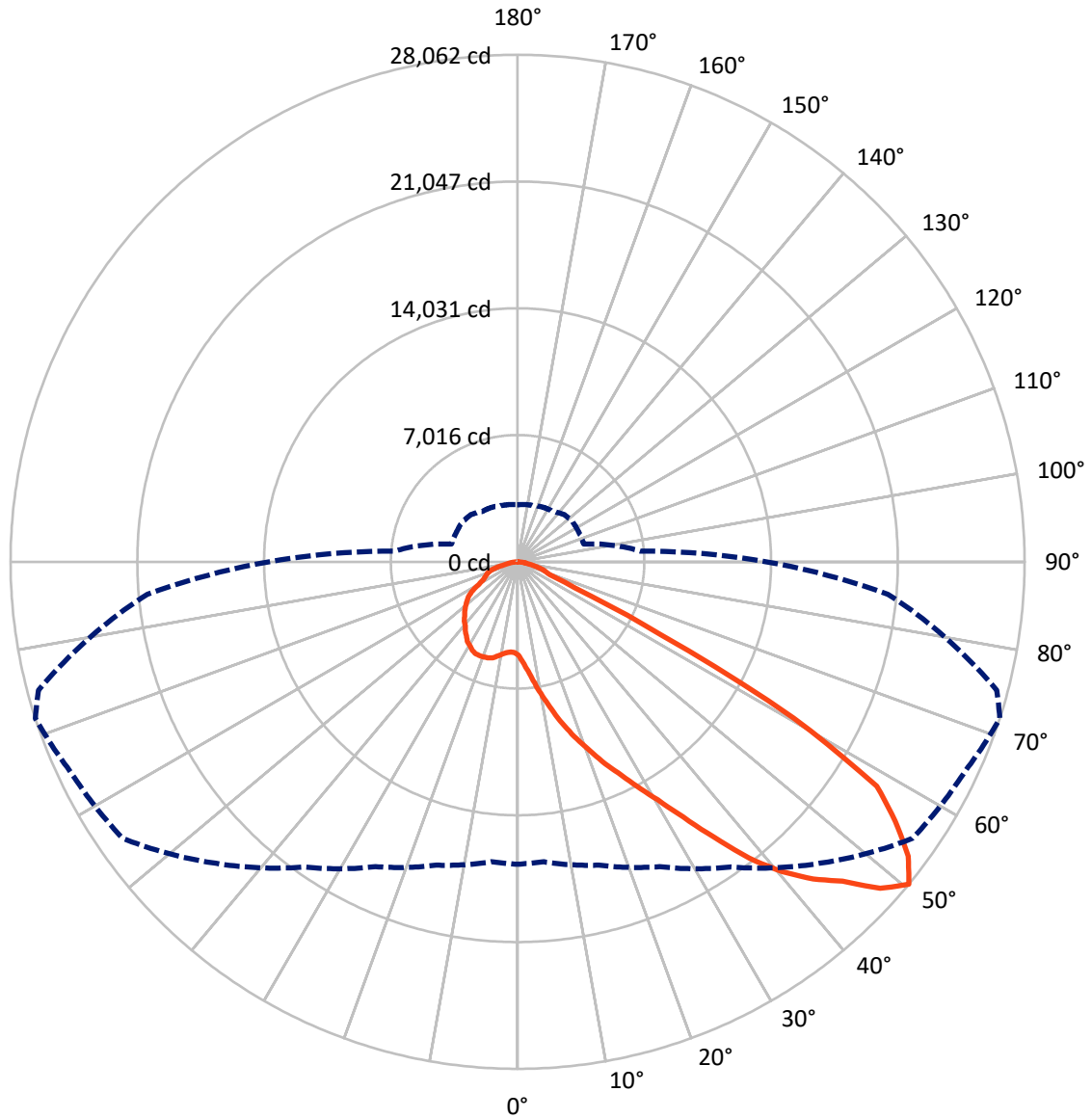
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

REPORT NUMBER: P647567
CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647567
 CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

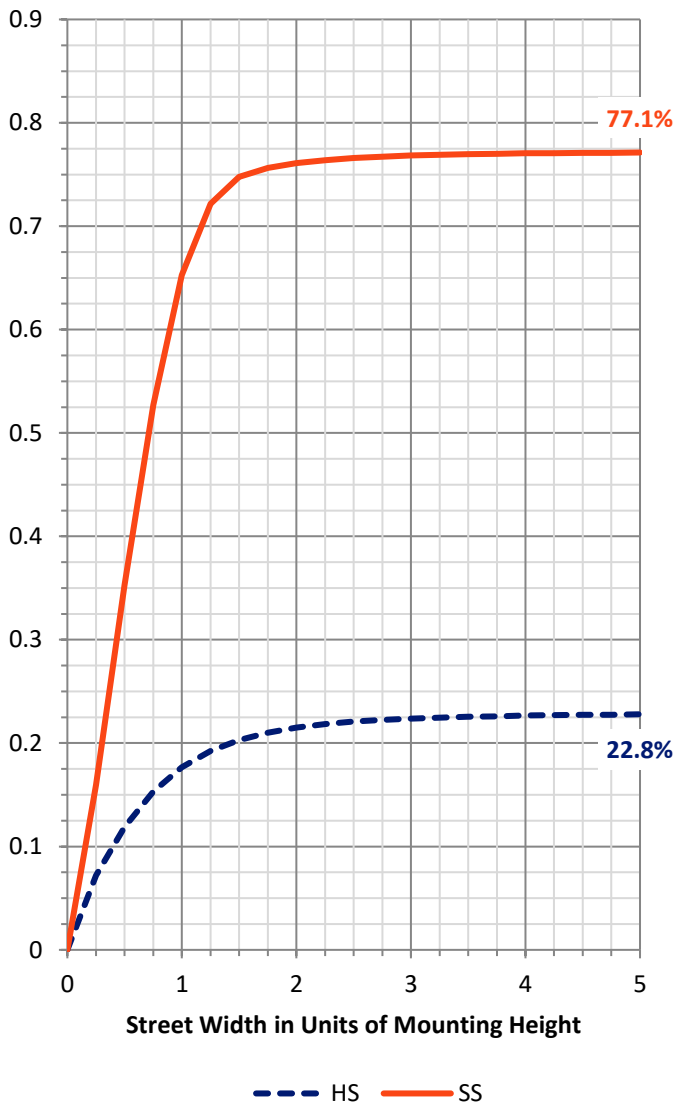
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8493.9	0.0	8493.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28580.3	0.0	28580.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	37074.3	0.0	37074.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.1	1.6
10°-20°	2269.4	6.1
20°-30°	4400.3	11.9
30°-40°	7289.7	19.7
40°-50°	10199.9	27.5
50°-60°	8604.9	23.2
60°-70°	2622.8	7.1
70°-80°	920.1	2.5
80°-90°	160.0	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°	37074.3	100.0
0°-180°	37074.3	100.0

Coefficient of Utilization

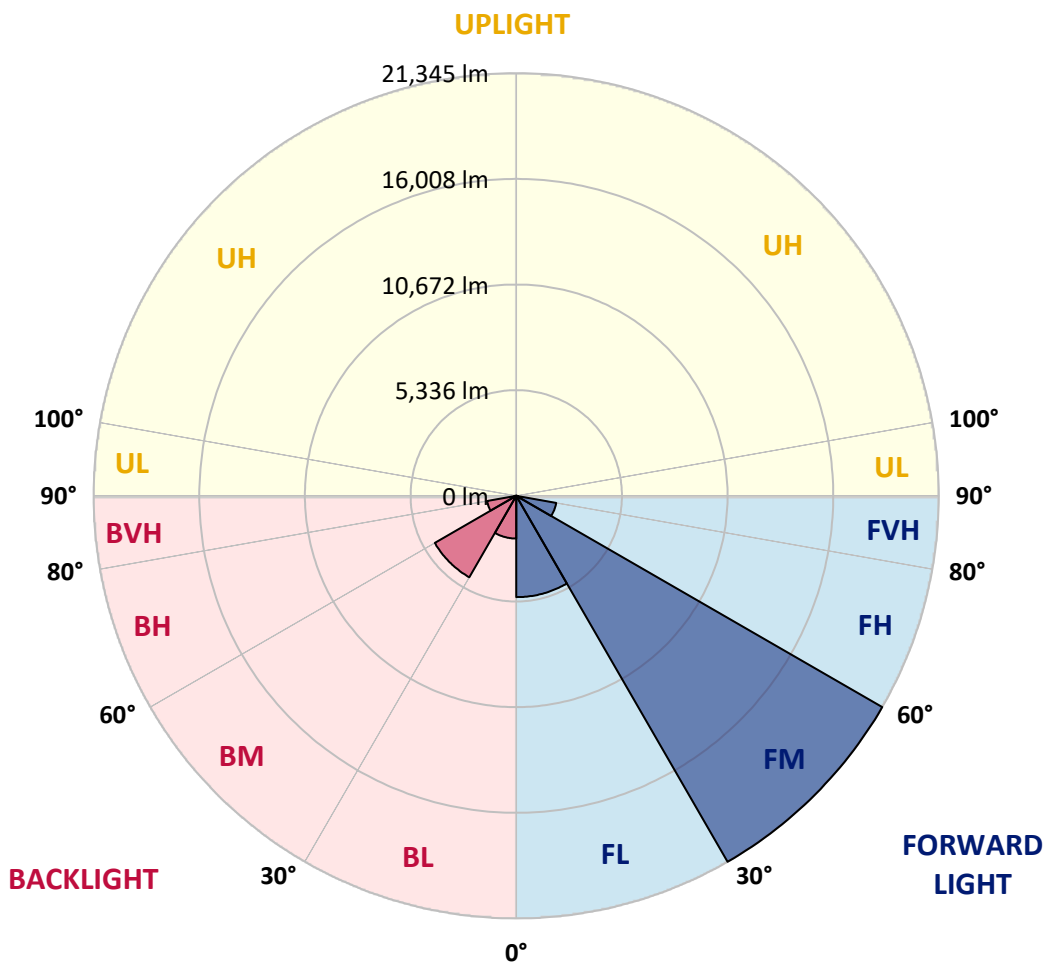


REPORT NUMBER: P647567
 CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5117.6	13.8			
FM (30°-60°)	21344.7	57.6			
FH (60°-80°)	2046.4	5.5			G2/5000
FVH (80°-90°)	71.7	0.2			G1/100
BL (0°-30°)	2159.2	5.8	B3/2500		
BM (30°-60°)	4749.9	12.8	B3/5000		
BH (60°-80°)	1496.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	88.3	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





REPORT NUMBER: P647567

CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1
2.5°	6638.3	6597.0	6473.1	6431.8	6285.0	6018.9	5927.2	5656.5	5541.8	5436.3	5312.4
5°	8395.3	8202.6	8188.8	7954.9	7615.5	7418.1	6831.0	6436.4	6074.0	5890.5	5551.0
7.5°	9514.7	9519.2	9519.2	9326.6	9055.9	8555.9	8028.3	7317.2	6771.3	6500.6	5922.6
10°	10579.0	10487.3	10436.8	10418.4	10234.9	9748.7	9184.4	8303.6	7555.8	7239.2	6202.5
12.5°	11331.4	11253.4	11368.1	11308.5	11175.4	10858.9	10326.7	9322.0	8386.2	7959.5	6652.1
15°	11689.3	11744.3	11836.0	12001.2	11941.5	11822.3	11235.0	10368.0	9280.7	8799.0	7051.1
17.5°	12239.7	12088.3	12198.4	12404.9	12570.0	12515.0	12180.1	11124.9	10166.2	9574.4	7587.9
20°	12625.1	12537.9	12593.0	12831.5	12955.4	13267.4	13093.0	12115.8	11014.9	10391.0	8221.0
22.5°	13726.1	13597.7	13418.7	13455.5	13501.3	13721.5	13762.8	13203.1	12001.2	11340.6	8822.0
25°	15084.0	14964.8	14753.8	14538.1	14405.1	14363.8	14506.0	14056.4	12946.2	12262.6	9468.8
27.5°	16579.6	16377.8	16244.7	15799.7	15441.9	15386.8	15318.0	15074.9	14065.6	13327.0	10198.3
30°	18033.9	17873.3	17694.4	16983.3	16611.7	16552.1	16212.6	16281.4	15281.3	14460.1	11024.0
32.5°	19134.9	19148.7	18740.3	18203.6	17855.0	17538.4	17414.5	17611.8	16841.1	16180.5	11946.2
35°	20024.9	20066.2	19676.2	19189.9	18813.8	19033.9	18978.9	19070.7	18703.7	17896.2	13019.6
37.5°	20891.9	20685.5	20268.0	20034.1	19836.8	20199.2	20667.1	20745.1	20813.9	19864.3	14267.4
40°	21034.2	21052.5	20809.4	20974.5	20726.8	21272.7	22360.0	22259.0	22538.9	21708.5	15620.8
42.5°	20832.3	20873.6	20969.9	21203.9	21800.3	22456.3	24071.1	23658.3	23997.8	23259.2	16937.5
45°	20502.0	20332.2	20451.6	21341.5	22373.8	23832.6	25635.5	25314.4	25204.3	24584.9	18506.4
47.5°	18923.9	19098.2	19469.8	20566.2	22116.9	24071.1	26745.7	26672.3	27002.6	26566.8	19933.1
50°	16735.6	16666.8	17382.4	18616.5	20616.7	23603.2	26686.1	27351.3	28062.4	27456.8	20570.8
52.5°	12533.3	12900.3	13515.0	15047.3	17900.9	21052.5	25383.2	26493.4	27071.4	26943.0	20057.0
55°	7922.8	8032.9	8404.5	10225.7	12794.8	16896.1	21759.0	24332.7	25364.9	25846.6	19584.5
57.5°	3849.0	3642.6	4096.7	5560.2	7390.7	11363.5	16781.5	21194.7	23438.1	24309.7	18556.9
60°	2009.3	2087.3	2266.3	2789.3	3821.5	5899.7	10459.7	14125.2	17552.2	18891.8	14065.6
62.5°	1665.3	1692.8	1812.1	2073.6	2541.5	3394.9	5340.0	6886.0	8950.4	10156.9	8000.8
65°	1413.0	1426.8	1555.2	1729.5	2027.7	2390.1	2747.9	2876.4	3482.0	3573.8	2844.3
67.5°	1179.0	1192.7	1330.4	1495.5	1688.2	1784.6	1876.3	1867.1	1936.0	1908.4	1903.9
70°	908.4	922.1	1064.3	1238.6	1335.0	1280.0	1564.4	1628.6	1656.1	1679.1	1715.8
72.5°	656.0	683.6	793.6	917.5	867.1	995.5	1289.1	1385.4	1422.2	1435.9	1481.8
75°	477.1	486.3	513.8	477.1	550.5	692.7	908.4	1027.6	1073.5	1087.3	1156.1
77.5°	211.0	215.6	220.2	275.2	353.2	431.2	541.4	637.7	701.9	720.3	738.6
80°	110.1	114.7	142.2	188.1	252.3	316.6	394.6	449.6	490.9	495.5	513.8
82.5°	68.8	73.4	100.9	133.0	178.9	234.0	289.0	334.9	367.0	371.6	376.2
85°	32.1	41.3	59.7	82.6	119.3	151.4	156.0	133.0	142.2	146.8	137.7
87.5°	9.2	13.8	18.3	13.8	18.3	18.3	22.9	27.6	27.6	27.6	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647567

CATALOG NUMBER: GALN-SA7D-835-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1	5161.1
2.5°	5243.6	5202.3	5041.8	4982.2	4826.2	4853.7	4771.1	4766.5	4748.2	4743.6	4739.0
5°	5372.1	5243.6	5051.0	4904.2	4817.0	4807.8	4748.2	4748.2	4766.5	4780.3	4748.2
7.5°	5583.1	5436.3	5110.6	4973.0	4895.0	4881.2	4840.0	4807.8	4849.1	4835.3	4798.6
10°	5826.2	5569.3	5225.3	5106.0	4977.5	4945.4	4945.4	4959.2	4890.4	4913.3	4876.6
12.5°	6096.9	5752.9	5372.1	5234.4	5083.1	5064.7	5055.5	4954.6	4991.3	4973.0	4881.2
15°	6441.0	5963.9	5560.2	5326.2	5197.8	5115.2	4995.9	4977.5	4954.6	4908.7	4867.4
17.5°	6812.6	6193.3	5647.3	5353.8	5161.1	5101.4	5009.6	4913.3	4844.5	4853.7	4821.6
20°	7129.1	6404.3	5679.5	5381.2	5133.5	5018.9	4876.6	4817.0	4743.6	4739.0	4734.4
22.5°	7505.3	6688.7	5725.3	5307.9	5051.0	4931.6	4835.3	4729.8	4679.4	4615.2	4647.3
25°	7954.9	6798.9	5734.5	5266.5	4991.3	4780.3	4729.8	4615.2	4596.8	4505.0	4523.4
27.5°	8280.6	6858.5	5661.1	5138.1	4853.7	4693.1	4601.4	4518.8	4486.7	4417.8	4399.5
30°	8716.4	6950.2	5505.1	4977.5	4716.1	4537.2	4482.1	4463.7	4372.0	4298.6	4289.4
32.5°	9211.9	7009.9	5404.2	4812.4	4573.8	4436.2	4463.7	4376.6	4261.9	4197.7	4179.3
35°	9606.5	7032.8	5151.9	4624.3	4477.5	4390.4	4358.3	4339.9	4174.7	4115.1	4069.2
37.5°	10207.4	6982.3	4940.9	4491.3	4372.0	4339.9	4312.4	4188.5	4000.4	3913.2	3849.0
40°	10909.3	6968.5	4670.2	4303.1	4271.0	4307.8	4225.1	4032.5	3771.0	3674.7	3628.8
42.5°	11583.7	7064.9	4500.4	4202.3	4160.9	4174.7	4060.0	3771.0	3642.6	3587.5	3514.1
45°	12712.2	7266.8	4220.6	4046.2	4027.9	4018.7	3881.1	3578.3	3504.9	3436.1	3422.3
47.5°	13730.7	7133.8	4041.7	3885.7	3904.0	3853.6	3560.0	3463.7	3381.1	3312.2	3289.3
50°	13790.4	6817.2	3789.3	3761.8	3766.4	3679.2	3399.4	3335.2	3229.6	3183.8	3151.7
52.5°	13478.4	6298.8	3555.4	3564.5	3578.3	3436.1	3202.2	3156.3	3069.1	3004.9	2986.5
55°	12602.2	5491.3	3326.0	3362.8	3399.4	3128.7	3055.3	2940.6	2871.8	2780.1	2784.7
57.5°	11102.0	4422.5	3004.9	3064.5	3142.5	2844.3	2789.3	2647.0	2546.1	2472.7	2463.6
60°	7441.1	3147.1	2523.2	2546.1	2720.5	2601.2	2596.6	2454.4	2316.7	2252.5	2215.8
62.5°	4390.4	2403.9	2179.1	2156.1	2151.6	2220.4	2335.1	2284.6	2105.7	1981.9	2018.6
65°	2298.4	2078.2	2027.7	1949.7	1903.9	1885.5	1972.7	1995.6	1876.3	1743.3	1734.1
67.5°	1931.3	1931.3	1890.1	1862.6	1798.3	1720.3	1665.3	1591.9	1573.5	1536.9	1491.0
70°	1757.1	1802.9	1789.2	1724.9	1669.9	1582.8	1440.5	1321.2	1206.5	1165.3	1192.7
72.5°	1532.3	1578.1	1578.1	1546.0	1472.6	1339.6	1202.0	1064.3	968.0	894.6	885.4
75°	1179.0	1202.0	1257.0	1220.3	1124.0	1041.4	899.2	756.9	665.2	596.4	582.6
77.5°	752.4	789.0	789.0	784.5	715.7	637.7	545.9	445.0	376.2	325.7	311.9
80°	500.0	523.0	541.4	523.0	477.1	417.5	348.7	279.8	229.4	188.1	178.9
82.5°	367.0	394.6	408.3	389.9	344.1	298.2	247.7	197.2	146.8	114.7	105.5
85°	142.2	146.8	165.1	197.2	192.7	188.1	151.4	110.1	82.6	59.7	55.0
87.5°	36.7	32.1	36.7	36.7	32.1	27.6	27.6	27.6	27.6	13.8	18.3
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)