

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: P533523

Luminaire Tested: **GALN-SA9A-722-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-722-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18535 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

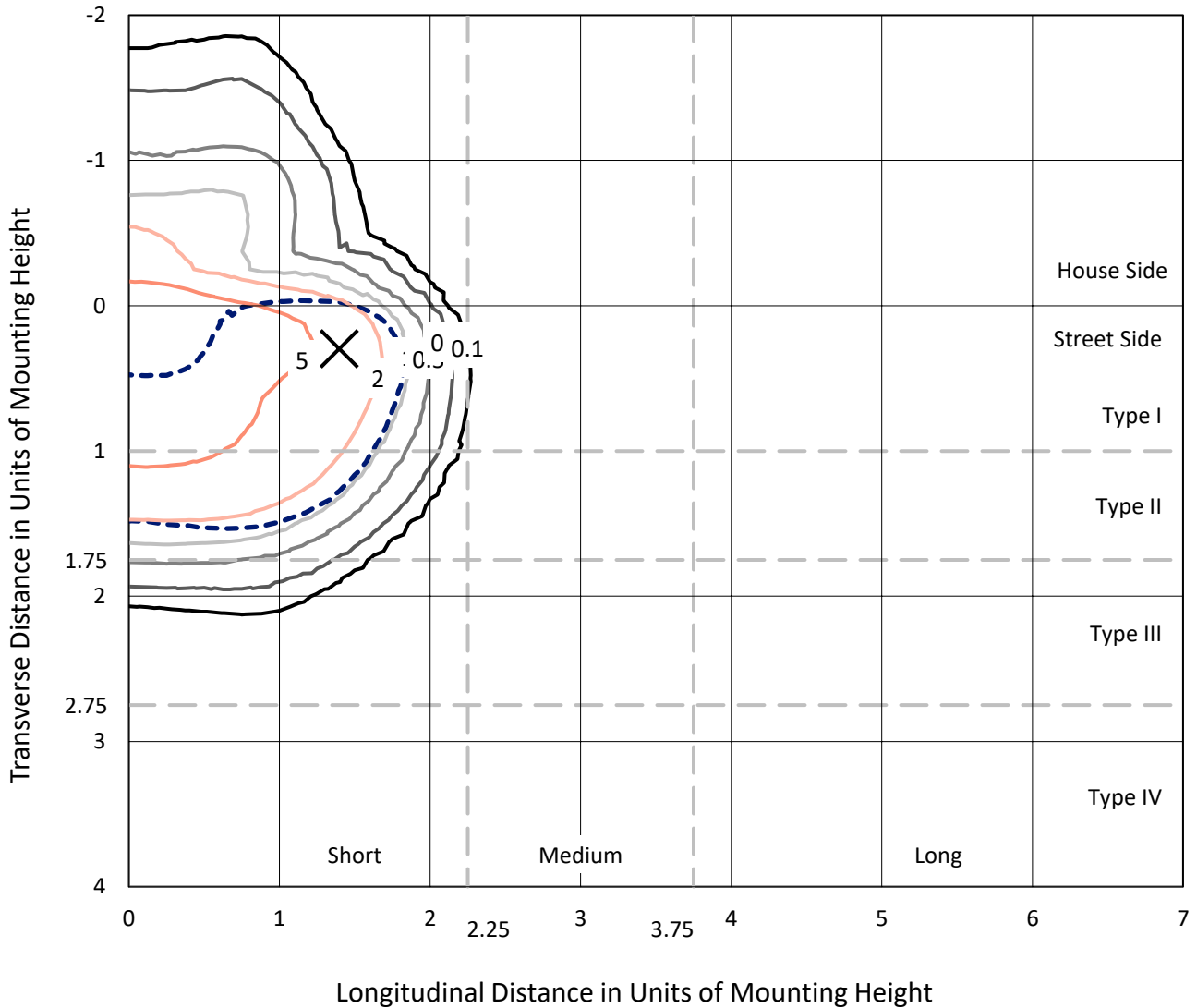
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

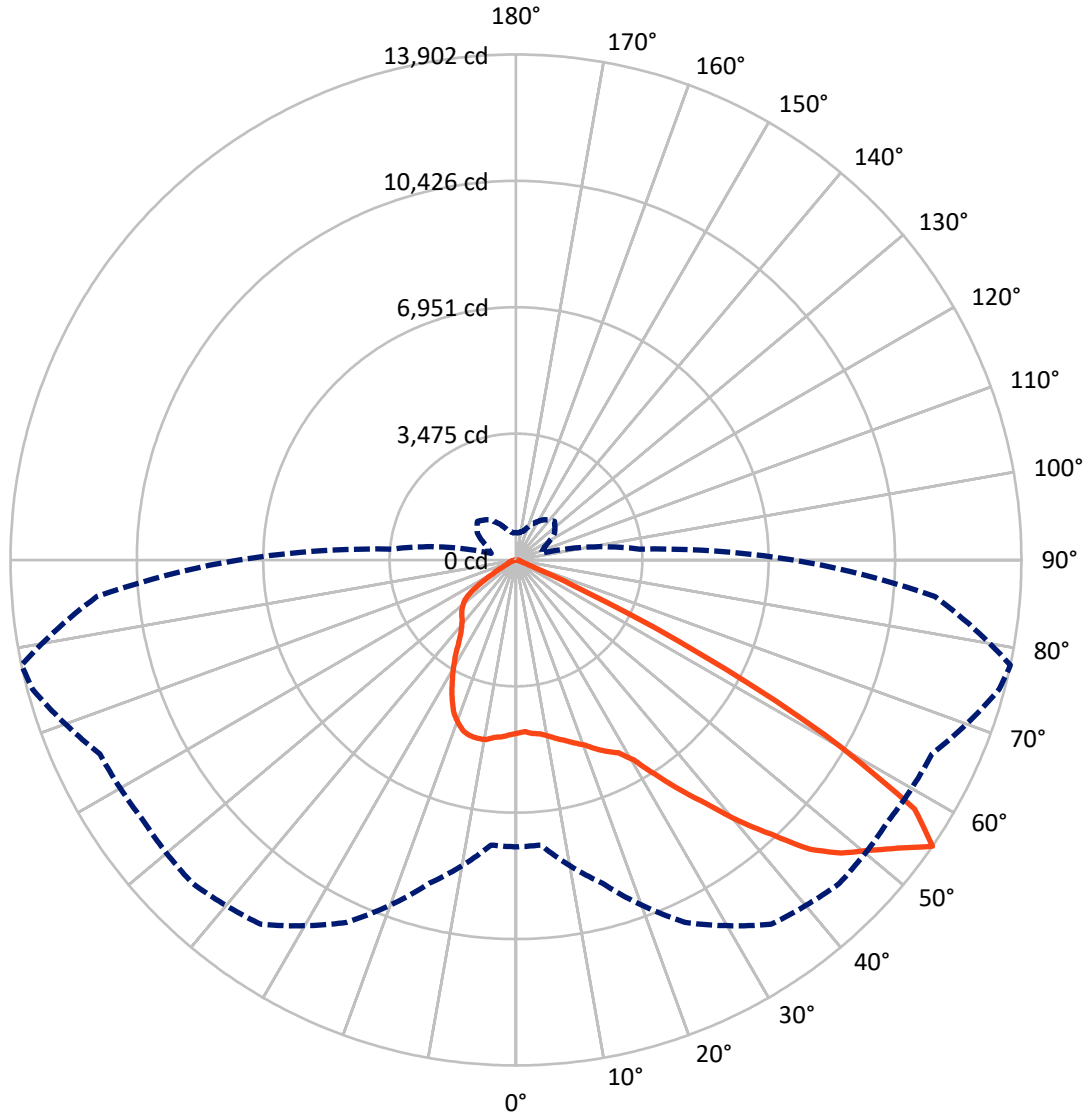
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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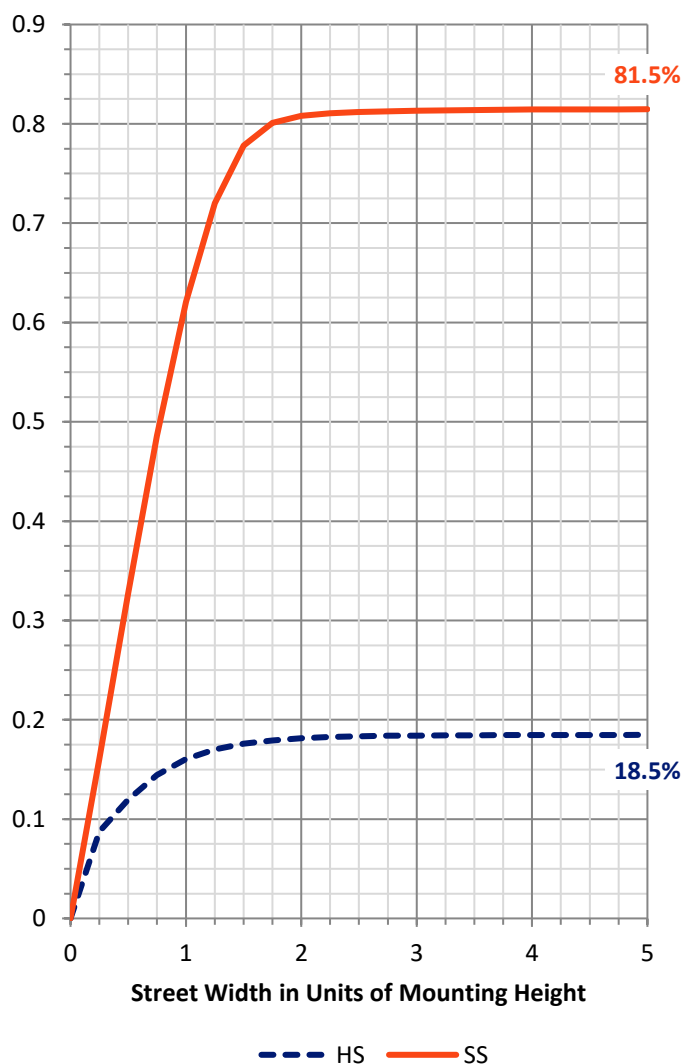
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3442.7	0.0	3442.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15092.3	0.0	15092.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	18535.0	0.0	18535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	2.3
10°-20°	1124.5	6.1
20°-30°	1971.1	10.6
30°-40°	3250.2	17.5
40°-50°	4729.4	25.5
50°-60°	5358.9	28.9
60°-70°	1532.2	8.3
70°-80°	119.0	0.6
80°-90°	24.7	0.1
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°	18535.0	100.0
0°-180°	18535.0	100.0

Coefficient of Utilization



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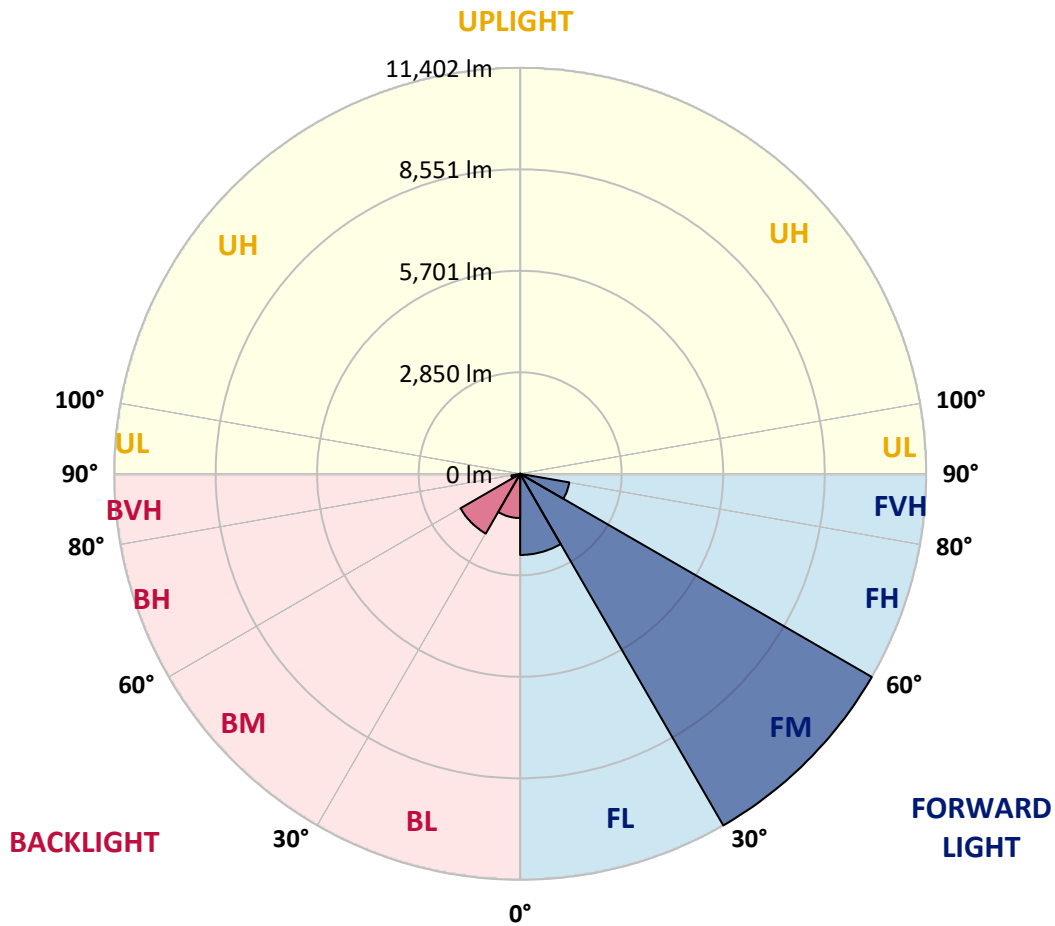
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.5	12.3			
FM (30°-60°)	11401.9	61.5			
FH (60°-80°)	1399.9	7.6			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1242.1	6.7	B3/2500		
BM (30°-60°)	1936.6	10.4	B2/2500		
BH (60°-80°)	251.3	1.4	B1/500		G1/500
BVH (80°-90°)	12.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4
2.5°	4480.4	4523.4	4530.1	4583.1	4579.8	4669.3	4695.8	4699.1	4758.7	4728.9	4805.1
5°	4354.4	4331.2	4321.3	4414.1	4440.6	4520.1	4586.4	4626.2	4748.8	4791.9	4871.4
7.5°	4241.8	4241.8	4248.4	4331.2	4321.3	4424.0	4493.6	4616.2	4795.2	4831.6	4927.7
10°	4132.4	4092.6	4142.3	4228.5	4301.4	4347.8	4493.6	4609.6	4818.4	4924.4	5057.0
12.5°	4076.1	4096.0	4102.6	4165.5	4245.1	4384.3	4463.8	4656.0	4984.1	5047.0	5189.5
15°	4430.7	4390.9	4294.8	4238.5	4304.7	4371.0	4569.8	4765.4	5070.2	5159.7	5318.8
17.5°	4841.6	4808.4	4728.9	4576.5	4427.3	4550.0	4705.7	4884.7	5163.0	5295.6	5530.9
20°	5378.4	5325.4	5245.9	4947.6	4818.4	4685.8	4851.5	5063.6	5315.5	5434.8	5676.7
22.5°	6018.0	6018.0	5839.1	5477.8	5209.4	5083.5	5153.1	5275.7	5484.5	5646.9	5885.5
25°	6684.1	6664.2	6501.8	6127.4	5673.4	5524.2	5603.8	5689.9	5746.3	5835.7	5994.8
27.5°	7446.3	7330.3	7124.8	6710.6	6309.6	6021.3	6107.5	6031.3	5961.7	6008.1	6236.7
30°	7963.3	8036.2	7774.4	7376.7	6998.9	6677.5	6694.0	6627.8	6309.6	6375.9	6511.8
32.5°	8500.1	8546.5	8400.7	8182.0	7804.2	7429.7	7293.8	7237.5	6998.9	7028.7	6896.2
35°	8947.5	9037.0	8907.7	8811.6	8702.2	8400.7	8026.2	8208.5	7824.1	7751.2	7406.5
37.5°	9358.4	9331.9	9484.3	9384.9	9361.7	9149.6	8738.7	8775.2	8516.7	8500.1	8102.4
40°	9726.2	9732.9	9941.6	9988.0	9895.2	9517.5	8921.0	9209.3	9418.0	9437.9	8927.6
42.5°	10031.1	10120.6	10299.5	10674.0	10534.8	9905.2	9109.9	9424.7	10200.1	10322.7	9709.7
45°	10296.2	10478.5	10700.5	11035.2	10955.7	10455.3	9580.4	9868.7	11035.2	11356.7	10445.3
47.5°	10312.8	10551.4	10793.3	11290.4	11389.8	10750.2	10067.6	10571.3	11698.0	12046.0	10982.2
50°	10246.5	10372.4	10856.3	11396.4	11621.8	11230.7	10750.2	11161.1	12340.9	12559.6	11253.9
52.5°	9461.1	9557.2	10528.2	11495.8	12039.3	11774.2	11654.9	11983.0	12997.0	13159.4	11509.1
55°	7887.0	7870.5	9206.0	10995.5	12231.5	12579.5	12506.6	12622.6	13755.9	13901.7	11572.1
57.5°	5395.0	5696.6	6849.8	9156.3	11055.1	12390.6	12466.8	12274.6	12871.1	12927.4	10087.5
60°	2909.6	3035.5	3963.4	6110.8	8417.3	10097.4	10296.2	9948.3	9901.9	9742.8	7201.1
62.5°	1156.5	1219.5	1746.4	3025.6	4586.4	6137.3	6564.8	6422.3	6117.4	5699.9	3728.1
65°	550.1	589.9	868.2	1415.0	2034.7	2558.3	2985.8	3118.4	2299.8	2071.2	1229.4
67.5°	374.5	404.3	633.0	808.6	725.7	758.9	987.5	917.9	540.2	460.6	341.3
70°	285.0	304.9	507.0	550.1	324.8	228.7	255.2	238.6	222.0	225.3	222.0
72.5°	202.1	218.7	371.2	324.8	142.5	106.0	135.9	162.4	162.4	162.4	159.1
75°	122.6	139.2	215.4	125.9	56.3	56.3	86.2	109.4	116.0	119.3	112.7
77.5°	63.0	79.5	72.9	36.5	36.5	43.1	63.0	76.2	82.8	82.8	79.5
80°	13.3	13.3	13.3	19.9	36.5	46.4	63.0	69.6	79.5	79.5	72.9
82.5°	0.0	3.3	9.9	19.9	33.1	43.1	59.6	69.6	79.5	82.8	76.2
85°	0.0	3.3	6.6	13.3	23.2	26.5	23.2	19.9	19.9	19.9	19.9
87.5°	0.0	0.0	3.3	3.3	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4	4765.4
2.5°	4811.8	4821.7	4805.1	4801.8	4788.6	4828.3	4732.2	4709.0	4768.7	4712.3	4725.6
5°	4874.7	4897.9	4868.1	4818.4	4745.5	4632.8	4536.7	4410.8	4351.1	4308.0	4301.4
7.5°	4921.1	4937.7	4907.9	4748.8	4530.1	4245.1	4033.0	3877.2	3754.6	3718.2	3658.5
10°	5110.0	5113.3	4964.2	4612.9	4185.4	3811.0	3486.2	3247.6	3125.0	3048.8	3015.6
12.5°	5235.9	5229.3	4927.7	4344.5	3774.5	3277.4	2906.3	2618.0	2505.3	2468.8	2445.6
15°	5395.0	5358.5	4841.6	4069.4	3244.3	2707.4	2372.7	2173.9	2164.0	2140.8	2164.0
17.5°	5520.9	5418.2	4715.7	3569.0	2737.3	2230.2	2011.5	2024.8	2051.3	2074.5	2077.8
20°	5726.4	5514.3	4427.3	3131.6	2266.7	1912.1	1908.8	1968.4	2034.7	2061.2	2087.7
22.5°	5882.1	5554.1	4119.2	2664.4	1882.3	1782.9	1839.2	1928.7	1978.4	2004.9	2044.7
25°	5938.5	5444.7	3708.2	2197.1	1696.7	1723.2	1809.4	1869.0	1932.0	1961.8	1945.2
27.5°	5994.8	5388.4	3217.8	1809.4	1597.3	1683.5	1756.4	1816.0	1835.9	1875.7	1902.2
30°	6130.7	5192.8	2777.0	1564.2	1547.6	1656.9	1710.0	1729.8	1782.9	1806.1	1806.1
32.5°	6240.0	5116.6	2309.8	1448.2	1541.0	1670.2	1676.8	1676.8	1683.5	1666.9	1660.3
35°	6465.4	4854.8	1892.2	1378.6	1537.6	1673.5	1690.1	1633.7	1481.3	1421.7	1405.1
37.5°	6743.7	4685.8	1584.0	1362.0	1560.8	1713.3	1739.8	1527.7	1328.9	1232.8	1216.2
40°	7081.8	4566.5	1381.9	1355.4	1613.9	1806.1	1726.5	1444.9	1186.4	1047.2	1040.6
42.5°	7476.1	4457.2	1246.0	1352.1	1680.1	1902.2	1713.3	1375.3	1040.6	947.8	961.0
45°	7790.9	4397.5	1153.2	1328.9	1703.3	1958.5	1723.2	1252.6	980.9	921.3	927.9
47.5°	8036.2	4271.6	1077.0	1289.1	1700.0	1978.4	1633.7	1202.9	951.1	967.7	984.2
50°	8042.8	4102.6	980.9	1202.9	1650.3	1941.9	1531.0	1156.5	944.5	1014.0	1047.2
52.5°	7953.3	3864.0	878.2	1080.3	1534.3	1816.0	1438.2	1136.7	914.6	908.0	947.8
55°	7635.2	3416.6	705.9	874.9	1295.7	1497.9	1355.4	1100.2	825.2	748.9	755.6
57.5°	6170.4	2449.0	520.3	626.3	917.9	1096.9	1222.8	1083.6	742.3	636.3	639.6
60°	3820.9	1388.5	381.1	427.5	566.7	666.1	990.9	1007.4	662.8	536.8	530.2
62.5°	1961.8	686.0	294.9	301.6	348.0	391.0	679.3	845.0	599.8	510.3	510.3
65°	656.1	338.0	258.5	232.0	232.0	241.9	410.9	586.6	507.0	427.5	427.5
67.5°	281.7	251.9	225.3	202.1	185.6	175.6	232.0	341.3	377.8	324.8	311.5
70°	218.7	212.1	195.5	169.0	145.8	132.6	135.9	175.6	215.4	208.8	202.1
72.5°	162.4	162.4	155.8	132.6	112.7	96.1	89.5	92.8	102.7	106.0	109.4
75°	112.7	116.0	116.0	102.7	82.8	69.6	59.6	49.7	39.8	33.1	29.8
77.5°	76.2	79.5	86.2	76.2	63.0	46.4	36.5	26.5	16.6	6.6	6.6
80°	66.3	76.2	82.8	76.2	66.3	49.7	36.5	19.9	9.9	0.0	0.0
82.5°	69.6	76.2	86.2	72.9	63.0	46.4	36.5	23.2	9.9	3.3	0.0
85°	16.6	16.6	19.9	23.2	29.8	33.1	26.5	16.6	9.9	3.3	0.0
87.5°	6.6	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	0.0	0.0
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)