

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: P457768

Luminaire Tested: **GALN-SA9A-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30207 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

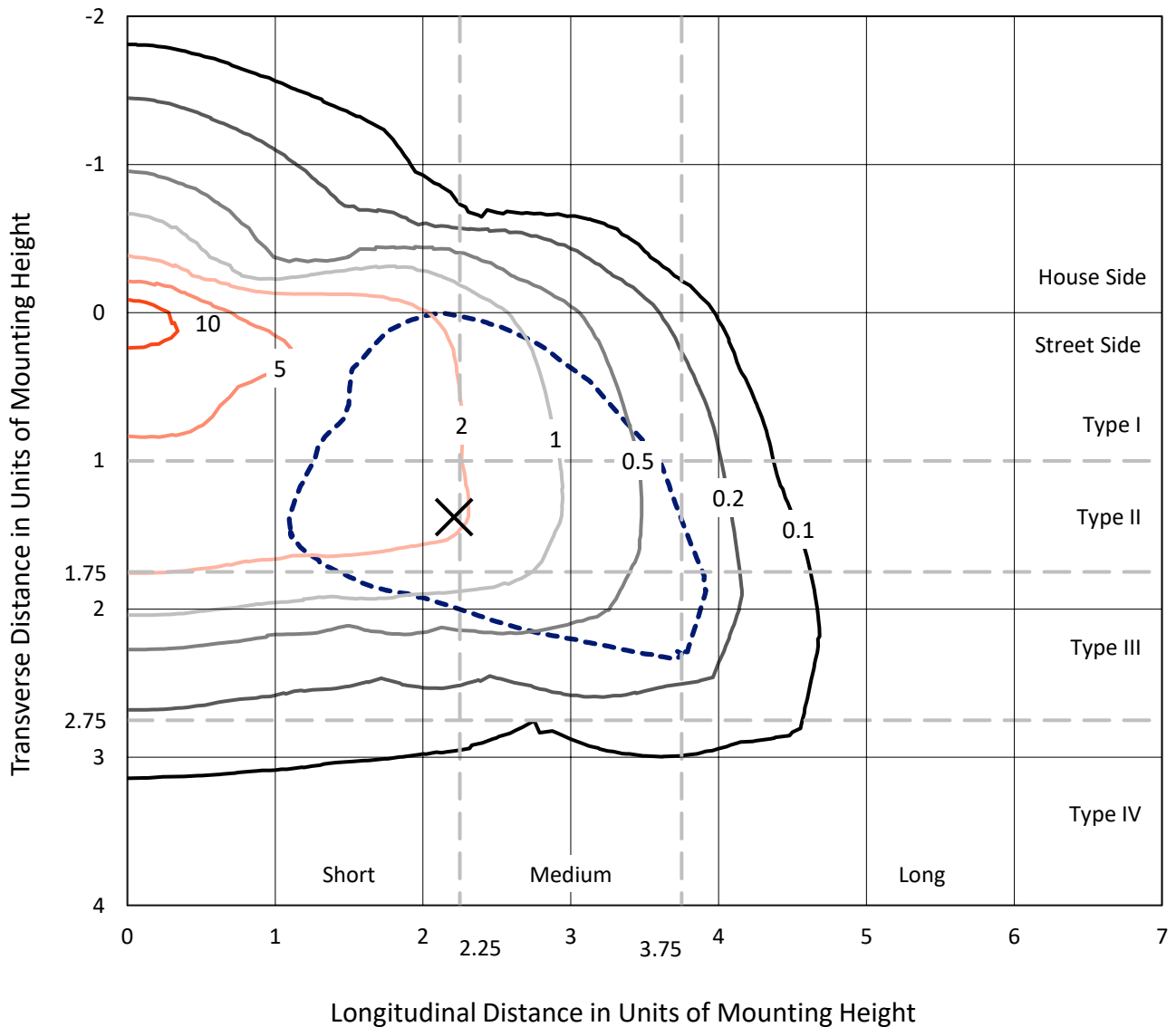
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

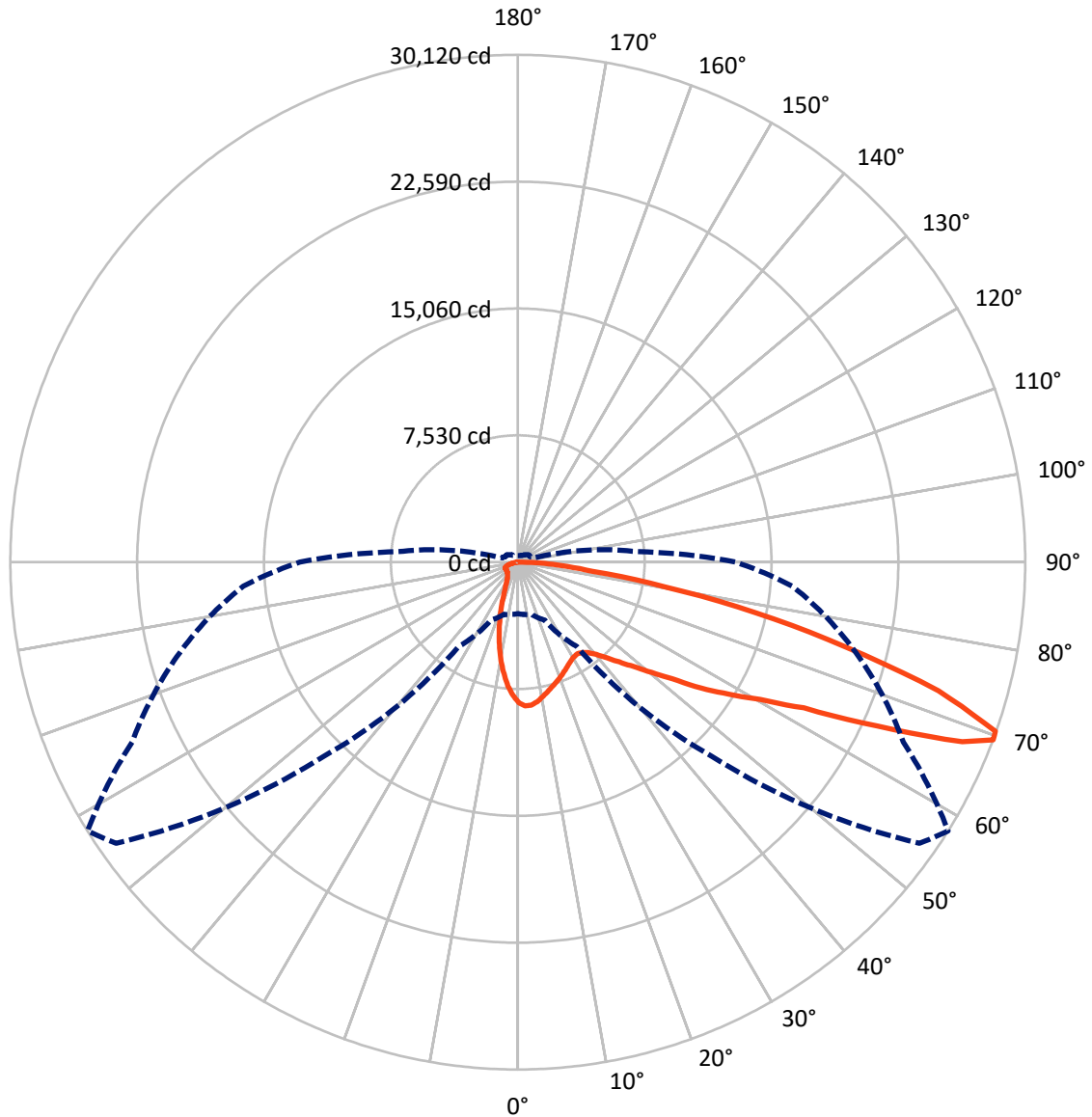
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4426.8	0.0	4426.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25780.2	0.0	25780.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	30207.0	0.0	30207.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.9	2.3
10°-20°	1556.6	5.2
20°-30°	2011.2	6.7
30°-40°	2612.1	8.6
40°-50°	3797.7	12.6
50°-60°	6059.8	20.1
60°-70°	8095.2	26.8
70°-80°	4666.5	15.4
80°-90°	698.9	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°	30207.0	100.0
0°-180°	30207.0	100.0

Coefficient of Utilization



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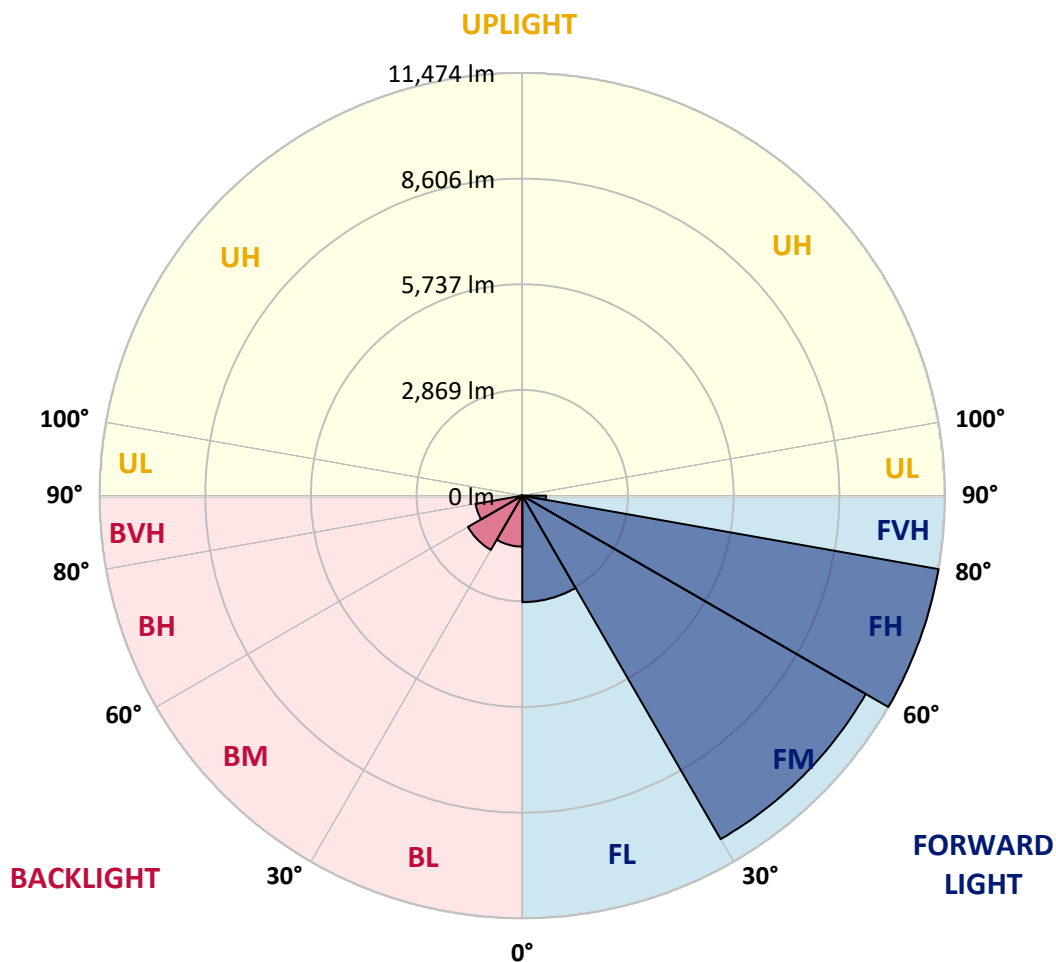
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2893.1	9.6			
FM	(30°-60°)	10767.2	35.6			
FH	(60°-80°)	11474.5	38.0			G4/12000
FVH	(80°-90°)	645.4	2.1			G4/750
BL	(0°-30°)	1383.6	4.6	B3/2500		
BM	(30°-60°)	1702.4	5.6	B2/2500		
BH	(60°-80°)	1287.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	53.5	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4
2.5°	8657.4	8681.0	8674.3	8665.8	8652.4	8615.3	8554.7	8544.6	8505.8	8423.3	8320.5
5°	8524.3	8544.6	8546.2	8558.0	8574.9	8568.1	8524.3	8519.3	8462.0	8350.8	8179.0
7.5°	8067.8	8094.7	8153.7	8219.4	8278.4	8334.0	8347.4	8355.9	8320.5	8192.5	7963.3
10°	7554.0	7580.9	7607.9	7705.6	7850.5	7988.6	8103.2	8118.3	8126.8	8008.8	7729.2
12.5°	6984.6	7040.2	7097.4	7242.3	7436.1	7653.4	7855.5	7887.5	7944.8	7855.5	7527.0
15°	6501.1	6558.3	6640.9	6770.6	7004.8	7318.1	7602.8	7655.1	7767.9	7722.4	7338.3
17.5°	6165.8	6186.0	6243.3	6391.6	6644.3	6974.5	7355.2	7459.6	7639.9	7628.1	7176.6
20°	5901.3	5926.6	5962.0	6053.0	6315.8	6664.5	7124.4	7259.2	7503.4	7543.9	7016.6
22.5°	5790.1	5808.7	5803.6	5852.5	6031.1	6381.5	6890.2	7050.3	7382.1	7486.6	6868.3
25°	5796.9	5813.7	5788.5	5776.7	5882.8	6132.1	6645.9	6849.8	7284.4	7447.8	6733.6
27.5°	5909.8	5921.5	5874.4	5827.2	5835.6	5977.1	6443.8	6669.5	7201.9	7464.7	6620.7
30°	6061.4	6083.3	6053.0	5995.7	5933.3	5940.1	6314.1	6536.4	7163.1	7523.7	6566.8
32.5°	6256.8	6277.0	6263.5	6218.0	6137.2	6047.9	6282.1	6487.6	7166.5	7643.3	6555.0
35°	6462.3	6502.8	6524.7	6521.3	6455.6	6300.6	6408.4	6578.6	7247.4	7843.7	6624.0
37.5°	6694.8	6728.5	6822.8	6883.5	6822.8	6642.6	6693.1	6811.0	7425.9	8133.5	6775.7
40°	6920.5	6971.1	7109.2	7297.9	7274.3	7116.0	7127.8	7205.3	7741.0	8564.8	7072.2
42.5°	7156.4	7217.0	7458.0	7737.6	7793.2	7670.2	7702.2	7771.3	8189.1	9162.8	7580.9
45°	7459.6	7532.1	7828.6	8177.3	8396.3	8320.5	8411.5	8445.2	8788.8	9941.1	8251.4
47.5°	7850.5	7934.7	8300.3	8734.9	9044.9	9114.0	9272.3	9252.1	9531.8	10862.6	9120.7
50°	8509.2	8556.3	8901.7	9344.8	9771.0	10082.6	10254.5	10286.5	10453.3	11758.9	10092.7
52.5°	9292.5	9334.7	9584.0	9971.5	10505.5	11165.9	11590.4	11486.0	11526.4	12850.5	11229.9
55°	10173.6	10244.4	10402.7	10660.5	11352.9	12324.9	13177.3	13202.6	12754.5	13895.0	12319.9
57.5°	10855.9	10975.5	11246.7	11614.0	12491.7	13613.7	14759.2	14776.1	14203.3	15010.2	13522.7
60°	10512.2	10653.7	11273.7	12168.2	13986.0	15862.7	16649.4	16553.4	15613.3	16280.5	14990.0
62.5°	9029.7	9055.0	9956.3	11354.5	14445.9	18871.5	19462.8	19056.8	17495.1	17891.0	16480.9
65°	5844.1	6009.2	6723.4	8682.7	12934.8	20541.0	24392.1	23453.7	20133.3	19718.8	17729.3
67.5°	3689.4	3647.3	3943.8	4957.9	8896.6	19070.3	28598.6	28450.4	23583.4	20872.8	17431.1
69°	3059.3	3106.5	3207.6	3800.6	6122.0	16282.2	29095.6	30119.9	25256.3	20781.9	16347.9
70°	2774.6	2796.5	2902.7	3369.3	4723.8	13637.3	28280.2	30074.4	25913.3	20401.1	15562.8
72.5°	2201.8	2200.2	2382.1	2803.3	3531.0	7784.8	23221.2	26110.4	25178.8	18628.9	12858.9
75°	1672.9	1699.8	1900.3	2372.0	3253.1	4253.7	16204.7	20108.0	20109.7	14713.7	8024.0
77.5°	1206.2	1223.1	1457.2	1991.3	3064.4	3448.5	10793.6	14422.3	13558.1	6742.0	2521.9
80°	790.1	800.2	978.8	1576.8	2762.8	3253.1	6400.0	8827.6	6394.9	1789.1	833.9
82.5°	433.0	483.5	598.1	1020.9	2217.0	3005.4	3889.9	4467.7	2398.9	796.8	434.6
85°	217.3	230.8	336.9	596.4	1448.8	2486.5	2708.9	2562.4	1238.2	395.9	225.7
87.5°	64.0	80.9	139.8	230.8	587.9	1295.5	1507.8	1352.8	476.8	143.2	47.2
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°	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4	8347.4
2.5°	8278.4	8248.1	8113.3	7992.0	7880.8	7762.9	7663.5	7575.9	7584.3	7586.0	7496.7
5°	8089.7	8020.6	7764.6	7525.3	7323.2	7067.1	6848.1	6706.6	6635.8	6541.5	6575.2
7.5°	7833.6	7700.5	7345.1	6947.5	6575.2	6243.3	5882.8	5635.2	5476.8	5323.5	5343.7
10°	7569.1	7355.2	6838.0	6312.4	5830.6	5299.9	4840.0	4445.8	4152.7	4043.2	3970.7
12.5°	7297.9	7016.6	6359.6	5660.4	4995.0	4359.9	3707.9	3285.1	2961.6	2789.8	2811.7
15°	7050.3	6708.3	5860.9	5008.5	4144.2	3387.8	2737.6	2334.9	2109.2	2062.0	2089.0
17.5°	6821.2	6373.0	5394.3	4375.0	3365.9	2540.5	2057.0	1829.5	1738.6	1713.3	1711.6
20°	6585.3	6088.3	4870.3	3697.8	2623.0	1969.4	1688.0	1581.9	1565.0	1575.1	1576.8
22.5°	6346.1	5736.2	4331.2	3025.6	2089.0	1610.5	1475.8	1447.1	1460.6	1484.2	1487.5
25°	6125.4	5426.3	3812.4	2436.0	1667.8	1415.1	1349.4	1349.4	1379.7	1415.1	1416.8
27.5°	5943.4	5126.4	3295.2	1934.0	1396.6	1273.6	1251.7	1263.5	1305.6	1332.6	1334.2
30°	5793.5	4846.7	2806.6	1549.9	1228.1	1160.7	1155.7	1175.9	1206.2	1231.5	1233.2
32.5°	5680.6	4600.8	2350.1	1302.2	1111.9	1074.8	1073.1	1088.3	1105.1	1111.9	1118.6
35°	5636.8	4396.9	1932.3	1145.6	1034.4	1010.8	1010.8	1009.1	1015.8	1019.2	1022.6
37.5°	5672.2	4240.3	1608.8	1044.5	977.1	960.3	950.1	940.0	936.7	936.7	938.4
40°	5822.2	4157.7	1367.9	978.8	936.7	911.4	892.9	881.1	869.3	872.6	876.0
42.5°	6140.6	4172.9	1204.5	935.0	901.3	865.9	839.0	825.5	817.1	827.2	825.5
45°	6647.6	4324.5	1100.1	904.7	865.9	820.4	795.2	781.7	781.7	796.8	801.9
47.5°	7356.9	4614.3	1044.5	881.1	839.0	785.0	759.8	749.7	753.0	778.3	780.0
50°	8222.8	5118.0	1034.4	869.3	825.5	759.8	731.1	721.0	729.5	756.4	759.8
52.5°	9178.0	5766.6	1083.2	871.0	813.7	744.6	707.6	692.4	700.8	722.7	729.5
55°	10310.1	6578.6	1209.6	877.7	796.8	736.2	690.7	657.0	667.1	682.3	684.0
57.5°	11465.7	7602.8	1432.0	879.4	783.4	721.0	662.1	618.3	618.3	628.4	633.4
60°	12877.5	8718.1	1725.1	881.1	785.0	699.1	623.3	574.5	567.7	572.8	574.5
62.5°	14279.1	9651.4	1773.9	876.0	801.9	677.2	581.2	530.7	518.9	517.2	513.8
65°	14897.4	9477.8	1453.9	852.4	820.4	663.8	547.5	488.5	468.3	461.6	461.6
67.5°	13889.9	8017.3	1093.3	820.4	808.6	650.3	515.5	453.2	429.6	416.1	416.1
69°	12943.2	7131.1	982.2	798.5	778.3	628.4	495.3	434.6	406.0	390.8	385.8
70°	12212.0	6521.3	935.0	780.0	749.7	603.1	480.1	421.2	389.2	372.3	368.9
72.5°	9745.7	5116.3	818.7	709.2	638.5	507.1	426.2	379.0	348.7	330.2	325.1
75°	5616.6	2772.9	678.9	616.6	513.8	394.2	360.5	330.2	306.6	289.8	284.7
77.5°	1728.5	1071.4	491.9	486.9	377.4	304.9	288.1	276.3	259.4	240.9	237.5
80°	727.8	545.8	333.6	328.5	251.0	212.3	207.2	205.5	198.8	183.6	178.6
82.5°	399.3	308.3	232.5	202.2	151.6	123.0	128.0	129.7	124.7	109.5	99.4
85°	195.4	168.5	112.9	91.0	69.1	43.8	42.1	50.5	47.2	33.7	37.1
87.5°	38.7	47.2	30.3	13.5	6.7	0.0	0.0	0.0	0.0	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)