

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: P457623

Luminaire Tested: **GALN-SA9A-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457623
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-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 34365 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

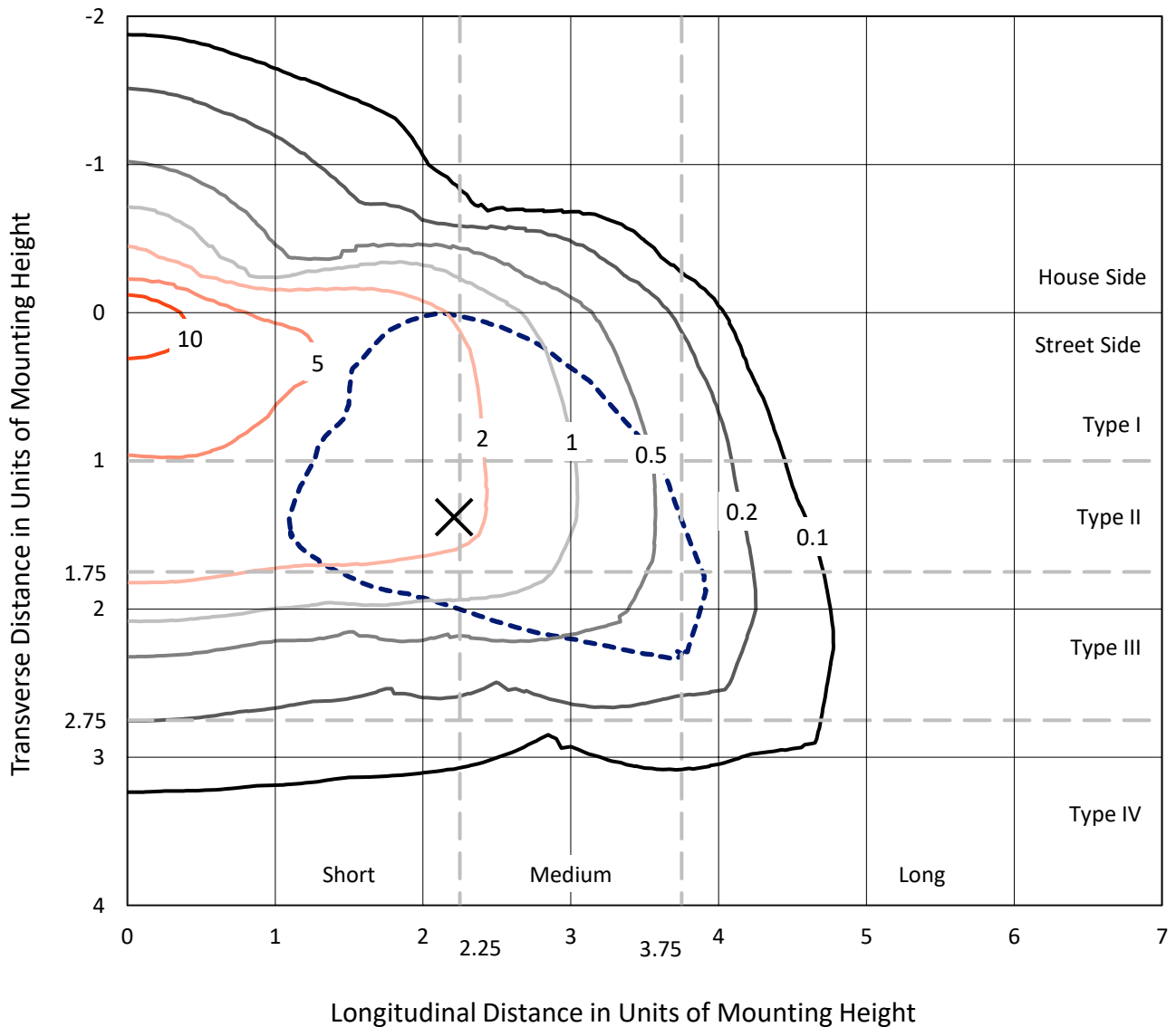
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457623
 CATALOG NUMBER: GALN-SA9A-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

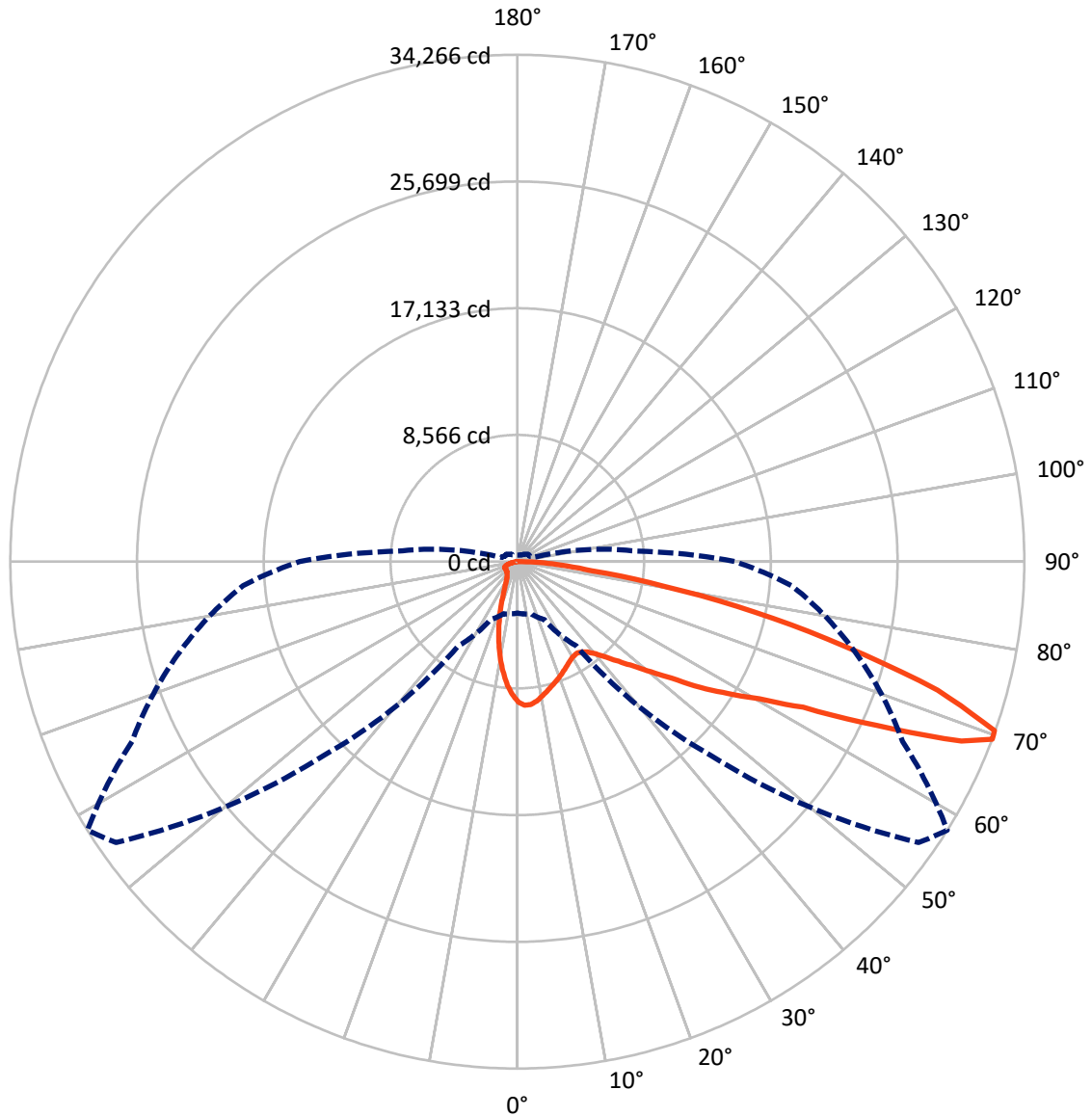
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

REPORT NUMBER: P457623
CATALOG NUMBER: GALN-SA9A-727-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457623

CATALOG NUMBER: GALN-SA9A-727-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5036.2	0.0	5036.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	29328.8	0.0	29328.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	34365.0	0.0	34365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	806.5	2.3
10°-20°	1770.9	5.2
20°-30°	2288.0	6.7
30°-40°	2971.7	8.6
40°-50°	4320.4	12.6
50°-60°	6894.0	20.1
60°-70°	9209.5	26.8
70°-80°	5308.9	15.4
80°-90°	795.2	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°	34365.0	100.0
0°-180°	34365.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457623

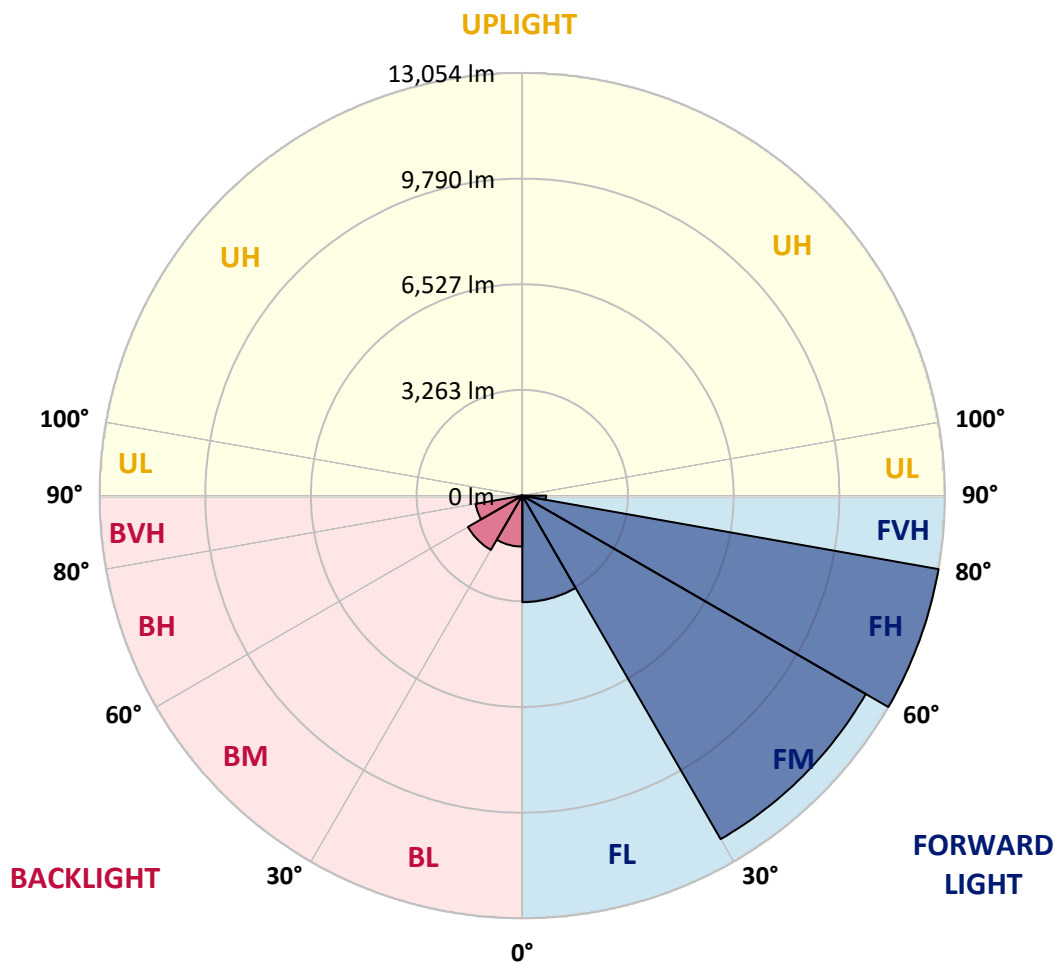
CATALOG NUMBER: GALN-SA9A-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3291.3	9.6			
FM	(30°-60°)	12249.3	35.6			
FH	(60°-80°)	13053.9	38.0			G5
FVH	(80°-90°)	734.2	2.1			G4/750
BL	(0°-30°)	1574.1	4.6	B3/2500		
BM	(30°-60°)	1936.7	5.6	B2/2500		
BH	(60°-80°)	1464.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	60.9	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-G5

Type III Short





REPORT NUMBER: P457623

CATALOG NUMBER: GALN-SA9A-727-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5
2.5°	9849.1	9875.9	9868.3	9858.7	9843.4	9801.2	9732.2	9720.7	9676.6	9582.7	9465.8
5°	9697.7	9720.7	9722.6	9736.0	9755.2	9747.5	9697.7	9692.0	9626.8	9500.3	9304.8
7.5°	9178.3	9209.0	9276.1	9350.8	9417.9	9481.1	9496.5	9506.1	9465.8	9320.2	9059.5
10°	8593.8	8624.4	8655.1	8766.3	8931.1	9088.3	9218.6	9235.8	9245.4	9111.2	8793.1
12.5°	7946.0	8009.2	8074.4	8239.2	8459.6	8706.9	8936.8	8973.3	9038.4	8936.8	8563.1
15°	7395.9	7461.1	7555.0	7702.6	7969.0	8325.5	8649.4	8708.8	8837.2	8785.4	8348.5
17.5°	7014.5	7037.5	7102.7	7271.4	7558.8	7934.5	8367.6	8486.5	8691.5	8678.1	8164.5
20°	6713.7	6742.4	6782.6	6886.1	7185.1	7581.8	8105.1	8258.4	8536.3	8582.3	7982.4
22.5°	6587.2	6608.2	6602.5	6658.1	6861.2	7259.9	7838.7	8020.7	8398.3	8517.1	7813.7
25°	6594.8	6614.0	6585.2	6571.8	6692.6	6976.2	7560.8	7792.7	8287.1	8473.0	7660.4
27.5°	6723.2	6736.7	6683.0	6629.3	6638.9	6799.9	7330.8	7587.6	8193.2	8492.2	7532.0
30°	6895.7	6920.6	6886.1	6821.0	6750.1	6757.7	7183.2	7436.2	8149.1	8559.3	7470.7
32.5°	7118.0	7141.0	7125.7	7074.0	6982.0	6880.4	7146.8	7380.6	8153.0	8695.4	7457.3
35°	7351.9	7397.9	7422.8	7418.9	7344.2	7167.9	7290.5	7484.1	8245.0	8923.4	7535.8
37.5°	7616.3	7654.7	7762.0	7831.0	7762.0	7556.9	7614.4	7748.6	8448.1	9253.1	7708.3
40°	7873.2	7930.7	8087.8	8302.5	8275.6	8095.5	8108.9	8197.1	8806.5	9743.7	8045.7
42.5°	8141.5	8210.5	8484.5	8802.7	8865.9	8726.0	8762.4	8841.0	9316.3	10424.1	8624.4
45°	8486.5	8568.9	8906.2	9302.9	9552.1	9465.8	9569.3	9607.6	9998.6	11309.5	9387.2
47.5°	8931.1	9026.9	9442.8	9937.3	10289.9	10368.5	10548.7	10525.7	10843.8	12357.9	10376.2
50°	9680.5	9734.1	10127.0	10631.1	11116.0	11470.5	11666.0	11702.4	11892.2	13377.5	11482.0
52.5°	10571.7	10619.6	10903.2	11344.0	11951.6	12702.9	13185.8	13067.0	13113.0	14619.4	12775.7
55°	11574.0	11654.5	11834.7	12127.9	12915.6	14021.4	14991.2	15020.0	14510.2	15807.7	14015.7
57.5°	12350.2	12486.3	12794.8	13212.7	14211.2	15487.6	16790.8	16810.0	16158.4	17076.4	15384.1
60°	11959.2	12120.2	12825.5	13843.2	15911.1	18046.2	18941.2	18832.0	17762.5	18521.5	17053.4
62.5°	10272.7	10301.4	11326.8	12917.5	16434.4	21469.1	22141.8	21679.9	19903.3	20353.7	18749.5
65°	6648.5	6836.3	7648.9	9877.9	14715.2	23368.4	27749.6	26682.1	22904.6	22433.1	20169.7
67.5°	4197.2	4149.3	4486.6	5640.4	10121.3	21695.3	32535.2	32366.6	26829.7	23746.0	19830.5
69°	3480.4	3534.1	3649.1	4323.7	6964.7	18523.4	33100.6	34265.9	28732.8	23642.5	18598.1
70°	3156.5	3181.5	3302.2	3833.1	5374.0	15514.4	32173.0	34214.1	29480.3	23209.3	17705.0
72.5°	2504.9	2503.0	2710.0	3189.1	4017.1	8856.3	26417.6	29704.5	28644.7	21193.1	14629.0
75°	1903.1	1933.8	2161.9	2698.5	3700.8	4839.3	18435.2	22875.9	22877.8	16739.1	9128.5
77.5°	1372.2	1391.4	1657.8	2265.4	3486.2	3923.2	12279.3	16407.5	15424.3	7670.0	2869.1
80°	898.9	910.4	1113.5	1793.9	3143.1	3700.8	7280.9	10042.7	7275.2	2035.4	948.7
82.5°	492.6	550.0	680.4	1161.4	2522.2	3419.1	4425.3	5082.7	2729.2	906.5	494.5
85°	247.2	262.6	383.3	678.5	1648.2	2828.8	3081.8	2915.1	1408.7	450.4	256.8
87.5°	72.8	92.0	159.1	262.6	668.9	1473.8	1715.3	1539.0	542.4	162.9	53.7
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: P457623

CATALOG NUMBER: GALN-SA9A-727-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5	9496.5
2.5°	9417.9	9383.4	9230.1	9092.1	8965.6	8831.4	8718.4	8618.7	8628.3	8630.2	8528.6
5°	9203.2	9124.7	8833.3	8561.2	8331.2	8039.9	7790.8	7629.8	7549.3	7441.9	7480.3
7.5°	8911.9	8760.5	8356.1	7903.8	7480.3	7102.7	6692.6	6410.8	6230.7	6056.3	6079.3
10°	8611.0	8367.6	7779.3	7181.3	6633.2	6029.4	5506.2	5057.8	4724.3	4599.7	4517.3
12.5°	8302.5	7982.4	7235.0	6439.6	5682.6	4960.0	4218.3	3737.3	3369.3	3173.8	3198.7
15°	8020.7	7631.7	6667.7	5697.9	4714.7	3854.2	3114.4	2656.3	2399.5	2345.8	2376.5
17.5°	7760.1	7250.3	6136.8	4977.3	3829.3	2890.1	2340.1	2081.4	1977.9	1949.1	1947.2
20°	7491.8	6926.4	5540.7	4206.8	2984.1	2240.4	1920.4	1799.6	1780.5	1792.0	1793.9
22.5°	7219.6	6525.8	4927.4	3442.1	2376.5	1832.2	1678.9	1646.3	1661.6	1688.5	1692.3
25°	6968.6	6173.2	4337.1	2771.3	1897.4	1609.9	1535.2	1535.2	1569.6	1609.9	1611.8
27.5°	6761.6	5832.0	3748.8	2200.2	1588.8	1448.9	1424.0	1437.4	1485.3	1516.0	1517.9
30°	6591.0	5513.9	3193.0	1763.2	1397.2	1320.5	1314.7	1337.7	1372.2	1401.0	1402.9
32.5°	6462.6	5234.1	2673.6	1481.5	1264.9	1222.8	1220.8	1238.1	1257.3	1264.9	1272.6
35°	6412.8	5002.2	2198.3	1303.2	1176.8	1149.9	1149.9	1148.0	1155.7	1159.5	1163.3
37.5°	6453.0	4823.9	1830.3	1188.3	1111.6	1092.4	1080.9	1069.4	1065.6	1065.6	1067.5
40°	6623.6	4730.0	1556.2	1113.5	1065.6	1036.9	1015.8	1002.4	988.9	992.8	996.6
42.5°	6985.8	4747.3	1370.3	1063.7	1025.4	985.1	954.4	939.1	929.5	941.0	939.1
45°	7562.7	4919.8	1251.5	1029.2	985.1	933.4	904.6	889.3	889.3	906.5	912.3
47.5°	8369.5	5249.4	1188.3	1002.4	954.4	893.1	864.4	852.9	856.7	885.4	887.4
50°	9354.6	5822.5	1176.8	988.9	939.1	864.4	831.8	820.3	829.9	860.5	864.4
52.5°	10441.3	6560.3	1232.3	990.9	925.7	847.1	804.9	787.7	797.3	822.2	829.9
55°	11729.2	7484.1	1376.1	998.5	906.5	837.5	785.8	747.5	759.0	776.2	778.1
57.5°	13044.0	8649.4	1629.1	1000.4	891.2	820.3	753.2	703.4	703.4	714.9	720.6
60°	14650.1	9918.1	1962.5	1002.4	893.1	795.4	709.1	653.5	645.9	651.6	653.5
62.5°	16244.6	10979.9	2018.1	996.6	912.3	770.5	661.2	603.7	590.3	588.4	584.5
65°	16948.0	10782.5	1654.0	969.8	933.4	755.1	622.9	555.8	532.8	525.1	525.1
67.5°	15801.9	9120.8	1243.8	933.4	919.9	739.8	586.5	515.6	488.7	473.4	473.4
69°	14724.8	8112.7	1117.3	908.4	885.4	714.9	563.5	494.5	461.9	444.6	438.9
70°	13893.0	7418.9	1063.7	887.4	852.9	686.1	546.2	479.1	442.7	423.6	419.7
72.5°	11087.2	5820.5	931.4	806.9	726.4	576.9	484.9	431.2	396.7	375.6	369.9
75°	6389.8	3154.6	772.4	701.5	584.5	448.5	410.1	375.6	348.8	329.6	323.9
77.5°	1966.4	1218.9	559.6	553.9	429.3	346.9	327.7	314.3	295.1	274.1	270.2
80°	827.9	621.0	379.5	373.7	285.6	241.5	235.7	233.8	226.2	208.9	203.2
82.5°	454.2	350.7	264.5	230.0	172.5	139.9	145.7	147.6	141.8	124.6	113.1
85°	222.3	191.7	128.4	103.5	78.6	49.8	47.9	57.5	53.7	38.3	42.2
87.5°	44.1	53.7	34.5	15.3	7.7	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)