

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: P457072

Luminaire Tested: **GALN-SA8B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457072
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-SA8B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 33479 lumens
Efficiency: N/A
Efficacy: 103.0 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

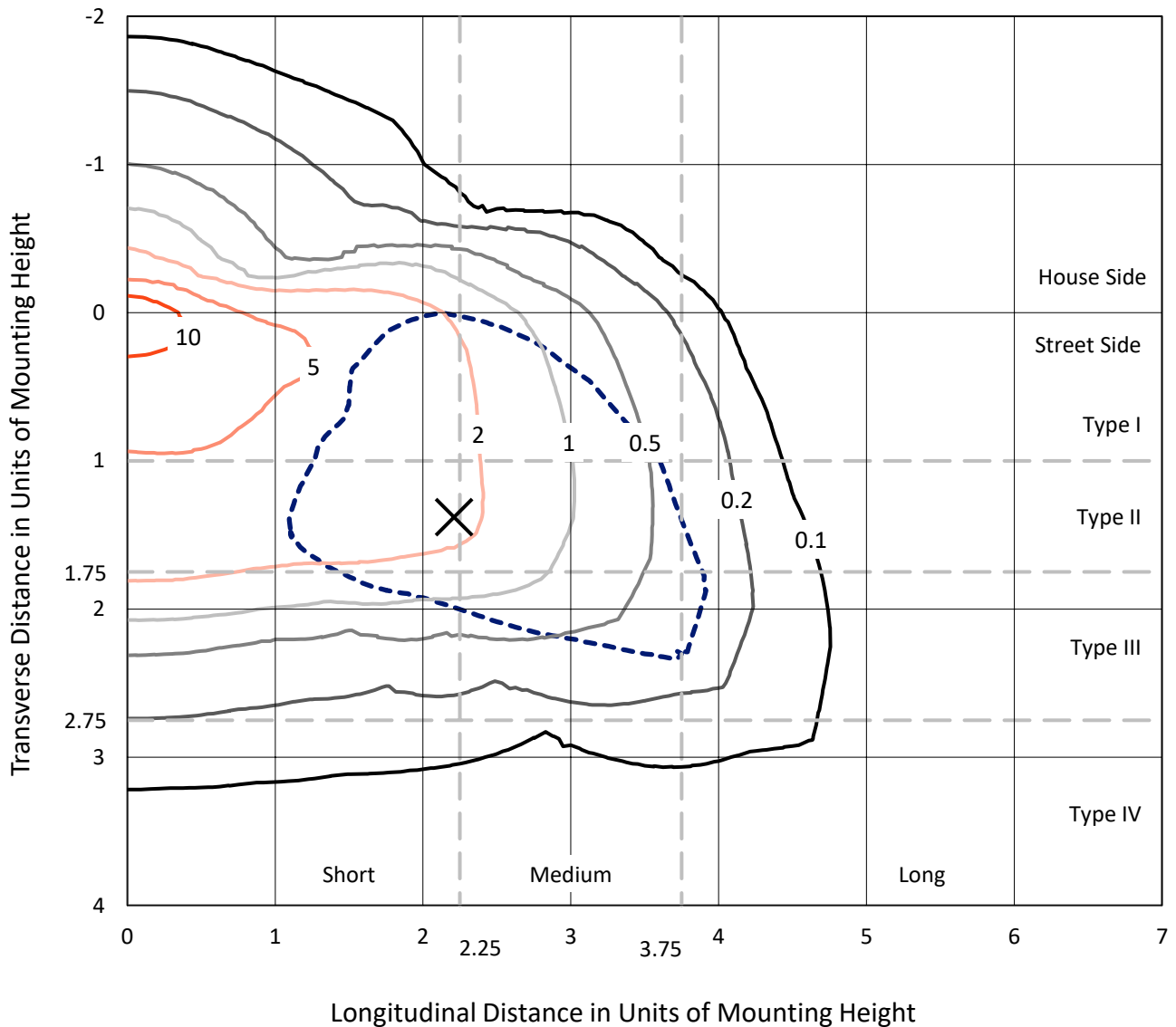
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457072
 CATALOG NUMBER: GALN-SA8B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

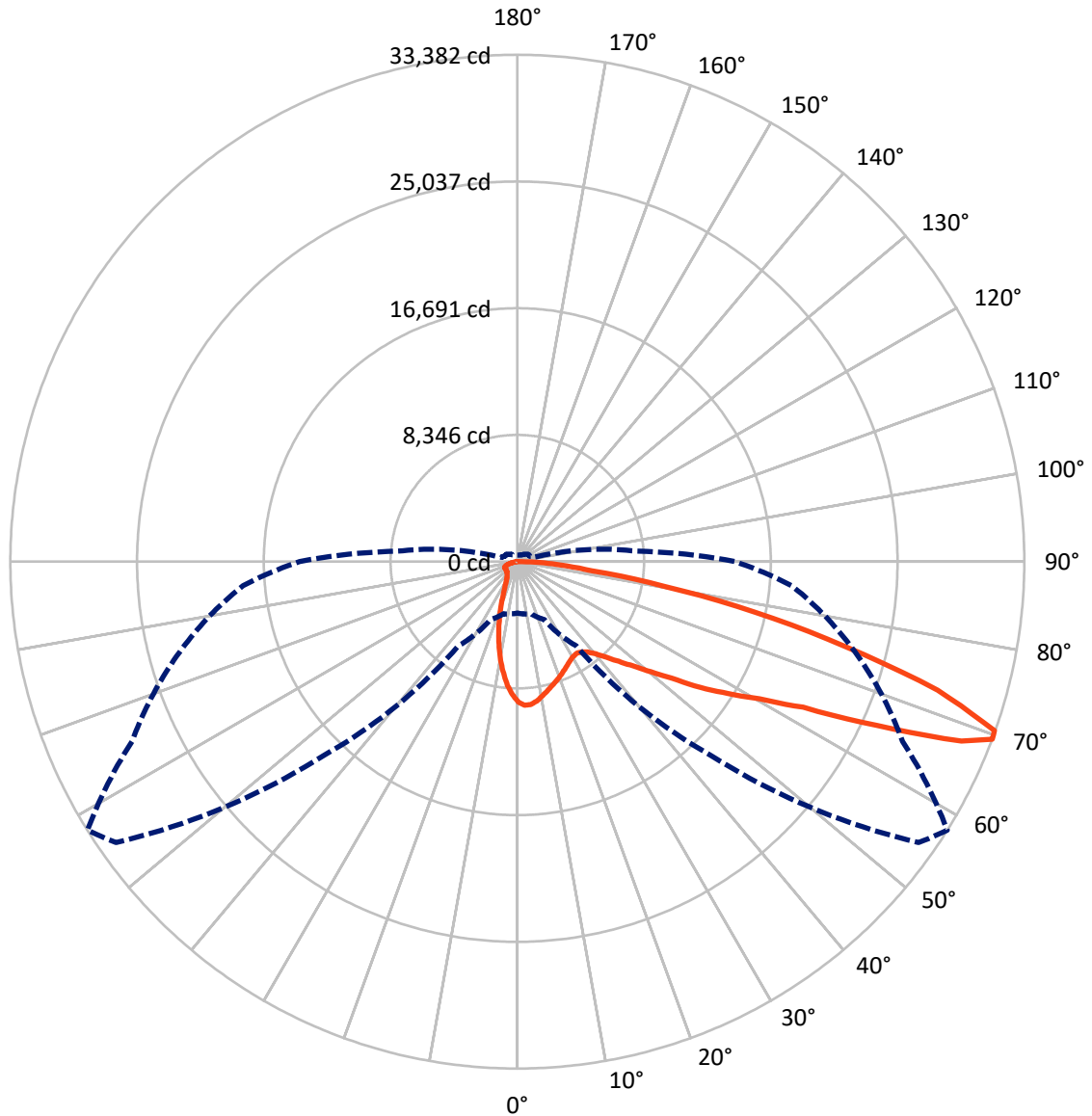
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

REPORT NUMBER: P457072
CATALOG NUMBER: GALN-SA8B-827-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457072

CATALOG NUMBER: GALN-SA8B-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4906.4	0.0	4906.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	28572.6	0.0	28572.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	33479.0	0.0	33479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.7	2.3
10°-20°	1725.2	5.2
20°-30°	2229.0	6.7
30°-40°	2895.1	8.6
40°-50°	4209.0	12.6
50°-60°	6716.2	20.1
60°-70°	8972.0	26.8
70°-80°	5172.0	15.4
80°-90°	774.7	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°	33479.0	100.0
0°-180°	33479.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457072

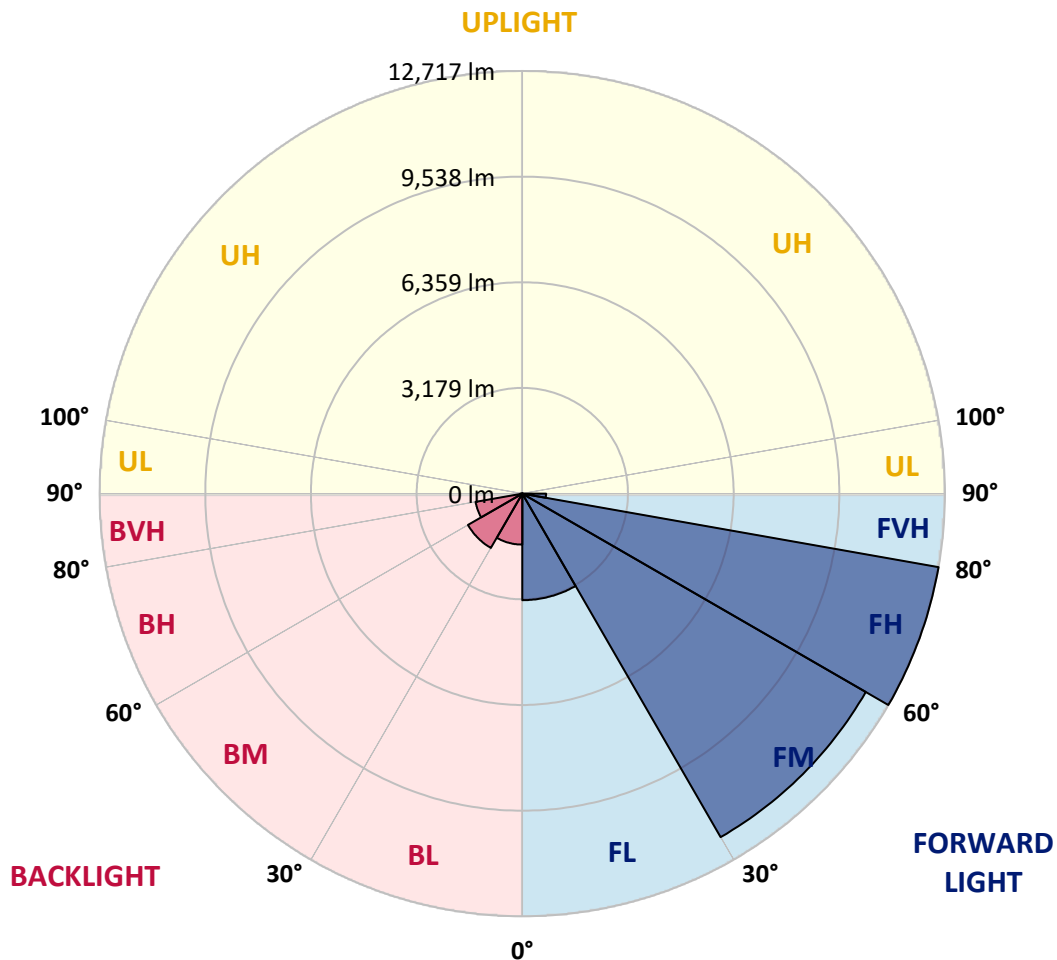
CATALOG NUMBER: GALN-SA8B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3206.4	9.6			
FM	(30°-60°)	11933.5	35.6			
FH	(60°-80°)	12717.4	38.0			G5
FVH	(80°-90°)	715.3	2.1			G4/750
BL	(0°-30°)	1533.5	4.6	B3/2500		
BM	(30°-60°)	1886.8	5.6	B2/2500		
BH	(60°-80°)	1426.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	59.3	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-G5

Type III Short





REPORT NUMBER: P457072

CATALOG NUMBER: GALN-SA8B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6
2.5°	9595.2	9621.3	9613.9	9604.5	9589.6	9548.5	9481.3	9470.1	9427.1	9335.7	9221.8
5°	9447.7	9470.1	9472.0	9485.0	9503.7	9496.2	9447.7	9442.1	9378.6	9255.4	9064.9
7.5°	8941.7	8971.6	9036.9	9109.7	9175.1	9236.7	9251.6	9261.0	9221.8	9079.9	8825.9
10°	8372.2	8402.1	8432.0	8540.3	8700.8	8853.9	8980.9	8997.7	9007.0	8876.3	8566.4
12.5°	7741.1	7802.7	7866.2	8026.8	8241.5	8482.4	8706.4	8741.9	8805.4	8706.4	8342.3
15°	7205.3	7268.7	7360.2	7504.0	7763.5	8110.8	8426.4	8484.2	8609.3	8558.9	8133.2
17.5°	6833.7	6856.1	6919.6	7083.9	7364.0	7729.9	8151.9	8267.7	8467.4	8454.4	7954.0
20°	6540.6	6568.6	6607.8	6708.6	6999.9	7386.4	7896.1	8045.5	8316.2	8361.0	7776.6
22.5°	6417.3	6437.9	6432.3	6486.4	6684.3	7072.7	7636.6	7813.9	8181.8	8297.5	7612.3
25°	6424.8	6443.5	6415.5	6402.4	6520.0	6796.4	7365.8	7591.8	8073.5	8254.6	7462.9
27.5°	6549.9	6563.0	6510.7	6458.4	6467.7	6624.6	7141.8	7392.0	7982.0	8273.3	7337.8
30°	6717.9	6742.2	6708.6	6645.1	6576.0	6583.5	6998.0	7244.5	7939.0	8338.6	7278.1
32.5°	6934.5	6956.9	6942.0	6891.6	6802.0	6703.0	6962.5	7190.3	7942.8	8471.2	7265.0
35°	7162.3	7207.1	7231.4	7227.7	7154.8	6983.1	7102.6	7291.1	8032.4	8693.4	7341.6
37.5°	7420.0	7457.3	7561.9	7629.1	7561.9	7362.1	7418.1	7548.8	8230.3	9014.5	7509.6
40°	7670.2	7726.2	7879.3	8088.4	8062.3	7886.8	7899.8	7985.7	8579.5	9492.5	7838.2
42.5°	7931.6	7998.8	8265.8	8575.7	8637.3	8501.0	8536.5	8613.1	9076.1	10155.3	8402.1
45°	8267.7	8347.9	8676.6	9063.1	9305.8	9221.8	9322.6	9359.9	9740.8	11017.9	9145.2
47.5°	8700.8	8794.2	9199.4	9681.1	10024.6	10101.2	10276.7	10254.3	10564.2	12039.3	10108.6
50°	9430.9	9483.2	9865.9	10357.0	10829.4	11174.8	11365.2	11400.7	11585.5	13032.6	11186.0
52.5°	10299.1	10345.8	10622.1	11051.6	11643.4	12375.3	12845.9	12730.1	12774.9	14242.5	12446.3
55°	11275.6	11354.0	11529.5	11815.2	12582.6	13659.9	14604.7	14632.7	14136.1	15400.1	13654.3
57.5°	12031.8	12164.4	12465.0	12872.0	13844.8	15088.3	16357.9	16376.6	15741.8	16636.1	14987.5
60°	11650.9	11807.7	12494.8	13486.3	15500.9	17580.9	18452.9	18346.4	17304.6	18044.0	16613.7
62.5°	10007.8	10035.8	11034.7	12584.5	16010.7	20915.6	21571.0	21121.0	19390.2	19828.9	18266.1
65°	6477.1	6660.1	7451.7	9623.2	14335.8	22765.9	27034.2	25994.2	22314.1	21854.8	19649.7
67.5°	4089.0	4042.3	4371.0	5495.0	9860.3	21135.9	31696.4	31532.1	26138.0	23133.8	19319.2
69°	3390.7	3443.0	3555.0	4212.2	6785.2	18045.8	32247.2	33382.4	27992.0	23032.9	18118.6
70°	3075.2	3099.4	3217.1	3734.3	5235.4	15114.4	31343.5	33332.0	28720.2	22611.0	17248.6
72.5°	2440.3	2438.5	2640.1	3106.9	3913.5	8628.0	25736.5	28938.7	27906.1	20646.7	14251.8
75°	1854.1	1883.9	2106.1	2628.9	3605.4	4714.5	17959.9	22286.1	22287.9	16307.5	8893.1
77.5°	1336.9	1355.5	1615.1	2206.9	3396.3	3822.0	11962.7	15984.5	15026.7	7472.3	2795.1
80°	875.7	886.9	1084.8	1747.6	3062.1	3605.4	7093.2	9783.8	7087.6	1982.9	924.2
82.5°	479.9	535.9	662.8	1131.5	2457.1	3331.0	4311.2	4951.6	2658.8	883.2	481.7
85°	240.9	255.8	373.4	661.0	1605.7	2755.9	3002.3	2839.9	1372.3	438.8	250.2
87.5°	71.0	89.6	155.0	255.8	651.6	1435.8	1671.1	1499.3	528.4	158.7	52.3
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: P457072

CATALOG NUMBER: GALN-SA8B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6	9251.6
2.5°	9175.1	9141.5	8992.1	8857.7	8734.4	8603.7	8493.6	8396.5	8405.8	8407.7	8308.7
5°	8966.0	8889.4	8605.6	8340.5	8116.4	7832.6	7589.9	7433.0	7354.6	7250.1	7287.4
7.5°	8682.2	8534.7	8140.7	7700.0	7287.4	6919.6	6520.0	6245.6	6070.0	5900.1	5922.5
10°	8389.0	8151.9	7578.7	6996.1	6462.1	5874.0	5364.3	4927.4	4602.5	4481.1	4400.8
12.5°	8088.4	7776.6	7048.4	6273.6	5536.0	4832.1	4109.6	3640.9	3282.4	3092.0	3116.2
15°	7813.9	7434.9	6495.7	5551.0	4593.1	3754.8	3034.1	2587.8	2337.6	2285.4	2315.2
17.5°	7560.0	7063.4	5978.6	4848.9	3730.5	2815.6	2279.8	2027.7	1926.9	1898.9	1897.0
20°	7298.6	6747.8	5397.9	4098.4	2907.1	2182.7	1870.9	1753.2	1734.6	1745.8	1747.6
22.5°	7033.5	6357.6	4800.4	3353.4	2315.2	1785.0	1635.6	1603.9	1618.8	1644.9	1648.7
25°	6788.9	6014.0	4225.3	2699.9	1848.5	1568.4	1495.6	1495.6	1529.2	1568.4	1570.3
27.5°	6587.2	5681.7	3652.1	2143.5	1547.9	1411.6	1387.3	1400.3	1447.0	1476.9	1478.8
30°	6421.1	5371.7	3110.6	1717.8	1361.1	1286.5	1280.9	1303.3	1336.9	1364.9	1366.7
32.5°	6296.0	5099.1	2604.6	1443.3	1232.3	1191.2	1189.4	1206.2	1224.8	1232.3	1239.8
35°	6247.4	4873.2	2141.6	1269.6	1146.4	1120.3	1120.3	1118.4	1125.9	1129.6	1133.3
37.5°	6286.6	4699.6	1783.1	1157.6	1082.9	1064.3	1053.1	1041.9	1038.1	1038.1	1040.0
40°	6452.8	4608.1	1516.1	1084.8	1038.1	1010.1	989.6	976.5	963.4	967.2	970.9
42.5°	6805.7	4624.9	1335.0	1036.3	998.9	959.7	929.8	914.9	905.6	916.8	914.9
45°	7367.7	4792.9	1219.2	1002.6	959.7	909.3	881.3	866.3	866.3	883.2	888.8
47.5°	8153.8	5114.1	1157.6	976.5	929.8	870.1	842.1	830.9	834.6	862.6	864.5
50°	9113.5	5672.3	1146.4	963.4	914.9	842.1	810.3	799.1	808.5	838.3	842.1
52.5°	10172.1	6391.2	1200.6	965.3	901.8	825.3	784.2	767.4	776.7	801.0	808.5
55°	11426.8	7291.1	1340.6	972.8	883.2	815.9	765.5	728.2	739.4	756.2	758.1
57.5°	12707.7	8426.4	1587.1	974.6	868.2	799.1	733.8	685.2	685.2	696.4	702.0
60°	14272.4	9662.4	1911.9	976.5	870.1	774.9	690.8	636.7	629.2	634.8	636.7
62.5°	15825.8	10696.8	1966.1	970.9	888.8	750.6	644.2	588.1	575.1	573.2	569.5
65°	16511.0	10504.5	1611.3	944.8	909.3	735.6	606.8	541.5	519.1	511.6	511.6
67.5°	15394.5	8885.7	1211.8	909.3	896.2	720.7	571.3	502.3	476.1	461.2	461.2
69°	14345.2	7903.6	1088.5	885.0	862.6	696.4	548.9	481.7	450.0	433.2	427.6
70°	13534.8	7227.7	1036.3	864.5	830.9	668.4	532.1	466.8	431.3	412.6	408.9
72.5°	10801.4	5670.5	907.4	786.1	707.6	562.0	472.4	420.1	386.5	366.0	360.4
75°	6225.0	3073.3	752.5	683.4	569.5	436.9	399.6	366.0	339.8	321.1	315.5
77.5°	1915.7	1187.5	545.2	539.6	418.2	338.0	319.3	306.2	287.5	267.0	263.3
80°	806.6	605.0	369.7	364.1	278.2	235.3	229.7	227.8	220.3	203.5	197.9
82.5°	442.5	341.7	257.7	224.1	168.0	136.3	141.9	143.8	138.2	121.4	110.2
85°	216.6	186.7	125.1	100.8	76.6	48.5	46.7	56.0	52.3	37.3	41.1
87.5°	42.9	52.3	33.6	14.9	7.5	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)