

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: P457621

Luminaire Tested: **GALN-SA9A-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34609 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

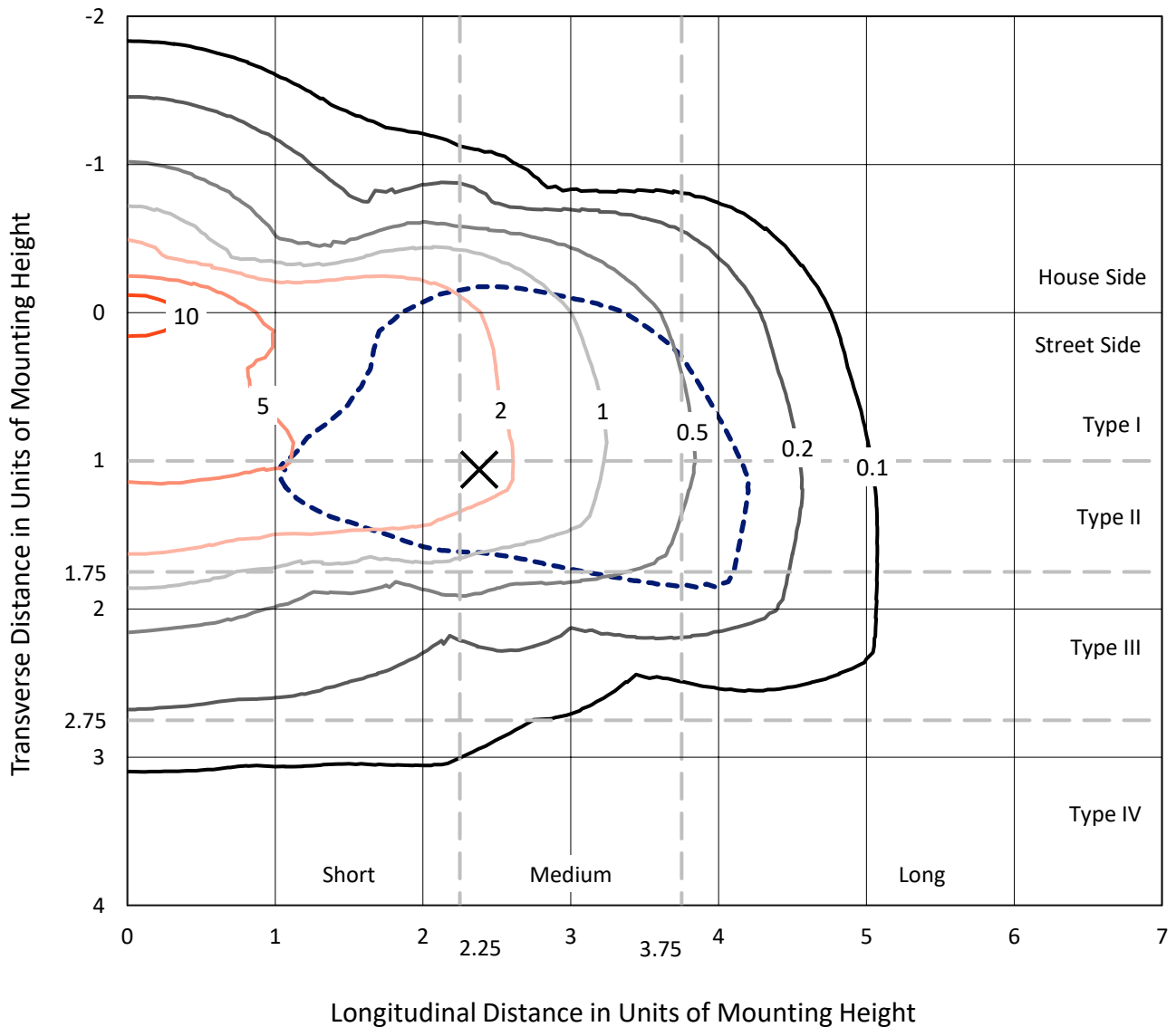
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457621
 CATALOG NUMBER: GALN-SA9A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

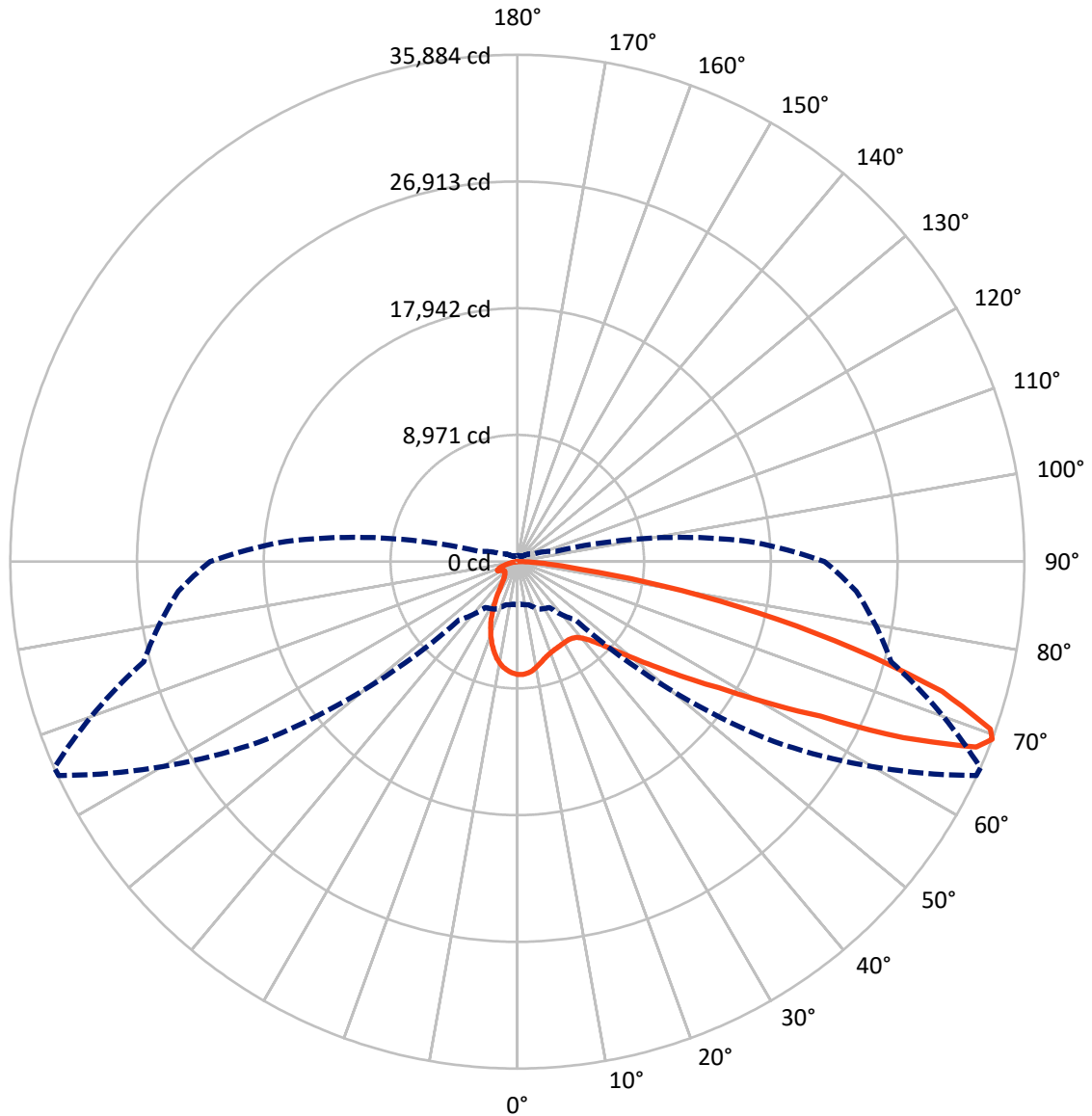
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P457621
CATALOG NUMBER: GALN-SA9A-727-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P457621

CATALOG NUMBER: GALN-SA9A-727-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6508.7	0.0	6508.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28100.4	0.0	28100.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	34609.0	0.0	34609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.0	2.0
10°-20°	1646.2	4.8
20°-30°	2241.1	6.5
30°-40°	3011.5	8.7
40°-50°	4496.7	13.0
50°-60°	7152.7	20.7
60°-70°	8797.5	25.4
70°-80°	5724.0	16.5
80°-90°	845.3	2.4
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°	34609.0	100.0
0°-180°	34609.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457621

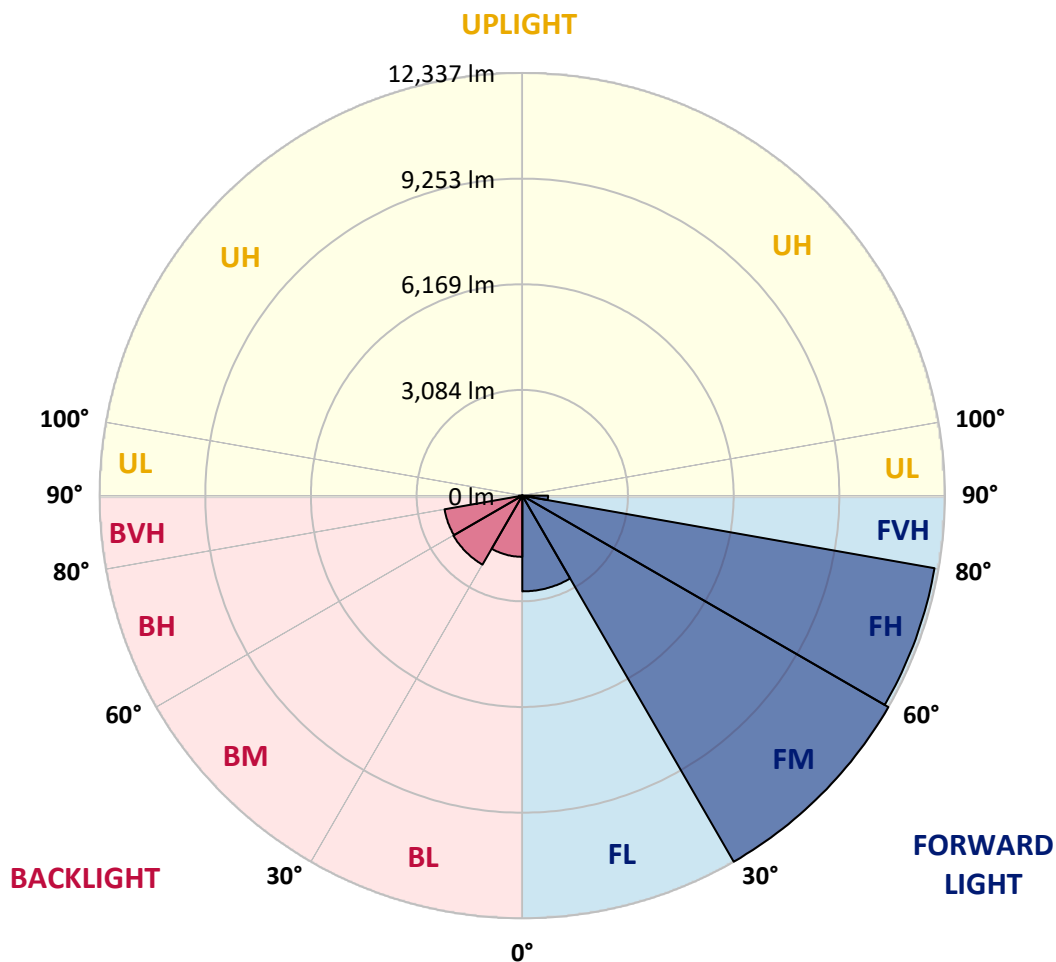
CATALOG NUMBER: GALN-SA9A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2794.6	8.1			
FM	(30°-60°)	12337.1	35.6			
FH	(60°-80°)	12217.2	35.3			G5
FVH	(80°-90°)	751.5	2.2			G5
BL	(0°-30°)	1786.7	5.2	B3/2500		
BM	(30°-60°)	2323.9	6.7	B2/2500		
BH	(60°-80°)	2304.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	93.8	0.3			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 Medium





REPORT NUMBER: P457621

CATALOG NUMBER: GALN-SA9A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2
2.5°	7712.4	7743.0	7777.5	7815.9	7888.7	7928.9	7957.7	7990.3	7994.1	8011.3	7997.9
5°	7143.1	7179.5	7231.3	7304.1	7413.4	7583.9	7760.3	7904.0	7921.3	8001.8	8024.8
7.5°	6667.8	6688.9	6731.1	6848.0	7003.2	7193.0	7449.8	7741.1	7783.3	7974.9	8042.0
10°	6280.7	6301.7	6351.6	6472.3	6625.7	6863.3	7145.0	7528.4	7562.9	7892.5	8045.8
12.5°	5991.3	6010.4	6064.1	6182.9	6359.2	6581.6	6892.1	7298.4	7348.2	7783.3	8009.4
15°	5770.9	5807.3	5851.3	5949.1	6135.0	6349.7	6650.6	7087.5	7127.8	7668.3	7984.5
17.5°	5676.9	5694.2	5724.9	5814.9	5951.0	6161.8	6464.7	6922.7	6970.6	7587.8	7978.8
20°	5680.8	5698.0	5703.8	5753.6	5851.3	6033.4	6332.4	6792.4	6849.9	7516.9	7988.3
22.5°	5811.1	5813.0	5791.9	5774.7	5813.0	5964.4	6238.5	6694.6	6761.7	7486.2	7996.0
25°	6012.3	6046.8	6016.2	5935.7	5864.8	5937.6	6202.1	6641.0	6704.2	7442.1	7986.4
27.5°	6338.2	6343.9	6319.0	6209.8	6025.8	5972.1	6186.8	6600.7	6654.4	7409.5	7938.5
30°	6775.1	6757.9	6734.9	6614.2	6324.7	6104.3	6219.3	6564.3	6619.9	7361.6	7881.0
32.5°	7217.9	7271.5	7250.5	7108.6	6733.0	6361.2	6324.7	6560.5	6606.5	7325.2	7817.8
35°	7687.4	7712.4	7812.0	7739.2	7354.0	6777.1	6522.2	6619.9	6656.3	7327.1	7773.7
37.5°	8055.4	8122.5	8356.3	8419.6	8057.3	7327.1	6842.2	6788.6	6803.9	7421.0	7790.9
40°	8500.1	8615.1	8916.0	9174.7	8937.1	8042.0	7386.5	7101.0	7120.1	7647.2	7904.0
42.5°	9063.6	9144.1	9548.5	9899.2	9860.9	8986.9	8045.8	7612.7	7622.3	8097.6	8220.3
45°	9722.9	9837.9	10292.1	10819.1	10909.2	10056.3	8998.4	8387.0	8381.2	8797.1	8810.6
47.5°	10566.2	10637.1	11087.5	11662.4	12026.6	11399.9	10154.1	9498.6	9437.3	9816.8	9707.5
50°	11342.4	11453.5	11794.7	12423.3	13329.9	12973.4	11673.9	10939.9	10796.2	11150.7	10966.7
52.5°	11668.2	11785.1	12072.6	12852.7	14447.3	15008.8	13604.0	12659.1	12419.5	12691.7	12624.6
55°	11102.8	11254.2	11522.5	12471.3	14937.9	17356.6	16206.7	14646.6	14472.2	14355.3	14374.4
57.5°	9582.9	9726.7	10088.9	11135.4	14351.4	19060.5	19923.0	17201.4	16827.7	16289.1	16381.1
60°	7294.5	7384.6	7572.4	8732.0	12613.1	19503.2	24143.3	20430.8	20193.2	18215.3	18280.4
62.5°	5180.5	5282.1	5412.4	5991.3	9234.1	18255.5	27447.5	24940.6	24091.5	20210.4	20147.2
65°	4206.9	4137.9	4295.1	4565.3	5418.2	14148.3	28191.1	31200.2	30031.0	22838.1	21960.3
67.5°	3459.4	3386.6	3541.9	4022.9	4120.7	8212.6	25511.7	35263.3	35029.5	25695.7	23802.1
69°	3062.7	3024.4	3160.5	3708.6	3955.8	5832.2	22224.8	35828.7	35884.3	27380.4	24085.8
70°	2759.9	2775.2	2907.5	3549.5	3881.1	4808.7	18995.3	35048.7	35520.2	28221.8	23779.1
72.5°	2031.6	2064.2	2248.2	2940.0	3810.2	4080.4	11304.0	30613.7	31447.4	28271.6	21753.3
75°	1420.2	1404.9	1567.8	2213.7	3599.4	4044.0	6639.1	23675.6	24620.5	24436.5	18278.5
77.5°	929.5	954.5	1084.8	1563.9	3028.2	4013.3	4327.7	16797.0	17410.3	16342.8	10811.5
80°	655.5	653.6	726.4	1067.5	2246.2	3856.2	3543.8	10587.2	10432.0	6422.5	3206.5
82.5°	375.7	402.5	486.8	751.3	1502.6	3394.3	3260.1	5063.6	4622.8	1830.3	1082.9
85°	208.9	218.5	289.4	454.2	877.8	2556.7	2846.1	2303.7	2173.4	764.7	465.7
87.5°	67.1	72.8	120.7	230.0	398.7	1207.5	1611.9	1063.7	981.3	276.0	187.8
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: P457621

CATALOG NUMBER: GALN-SA9A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2	7992.2
2.5°	8003.7	8026.7	7965.3	7905.9	7852.3	7777.5	7710.4	7654.9	7616.5	7610.8	7591.6
5°	8030.5	8032.4	7915.5	7758.4	7605.0	7436.4	7262.0	7137.4	7020.5	6955.3	6922.7
7.5°	8049.7	8032.4	7821.6	7566.7	7271.5	6964.9	6658.2	6412.9	6223.2	6148.4	6177.2
10°	8042.0	7988.3	7679.8	7271.5	6842.2	6384.2	5943.3	5598.4	5282.1	5119.2	5123.0
12.5°	7999.8	7911.7	7469.0	6940.0	6309.4	5696.1	5021.5	4555.7	4189.7	3973.1	3906.0
15°	7963.4	7810.1	7221.7	6489.6	5705.7	4829.8	4007.6	3432.6	3126.0	2955.4	2953.5
17.5°	7925.1	7712.4	6951.5	6012.3	5011.9	3884.9	3022.5	2583.6	2439.8	2457.1	2428.3
20°	7884.9	7597.4	6669.7	5481.4	4166.7	2897.9	2263.5	2085.2	2125.5	2204.1	2215.6
22.5°	7838.9	7474.7	6366.9	4896.9	3277.4	2181.1	1836.1	1809.3	1912.8	2035.4	2052.7
25°	7767.9	7321.4	5985.5	4285.5	2528.0	1757.5	1608.0	1627.2	1728.8	1832.3	1843.8
27.5°	7668.3	7131.6	5600.3	3522.7	1899.3	1508.4	1470.0	1494.9	1544.8	1608.0	1623.4
30°	7534.1	6917.0	5157.5	2863.4	1521.8	1383.8	1368.4	1381.9	1410.6	1437.4	1445.1
32.5°	7400.0	6710.0	4711.0	2192.6	1356.9	1301.4	1286.0	1286.0	1286.0	1289.9	1291.8
35°	7275.4	6514.5	4231.8	1707.7	1270.7	1236.2	1215.1	1192.1	1188.3	1174.9	1174.9
37.5°	7206.4	6336.2	3722.0	1429.8	1207.5	1182.5	1153.8	1115.5	1094.4	1096.3	1092.5
40°	7219.8	6219.3	3258.2	1272.6	1155.7	1128.9	1084.8	1040.7	1027.3	1027.3	1023.5
42.5°	7371.2	6181.0	2813.6	1190.2	1105.9	1075.2	1019.6	979.4	971.7	969.8	973.6
45°	7720.0	6274.9	2414.9	1136.5	1063.7	1017.7	962.1	925.7	918.0	918.0	916.1
47.5°	8400.4	6579.7	2129.3	1102.0	1033.0	973.6	916.1	879.7	866.3	862.5	862.5
50°	9458.4	7240.9	1916.6	1071.4	994.7	933.4	874.0	831.8	810.7	808.8	806.9
52.5°	10928.4	8272.0	1834.2	1048.4	952.5	891.2	826.1	785.8	759.0	753.2	749.4
55°	12647.6	9711.4	1947.3	1031.1	908.5	843.3	776.2	734.1	709.1	697.6	695.7
57.5°	14638.9	11440.1	2376.6	1008.1	868.2	791.6	726.4	684.2	657.4	644.0	640.1
60°	16427.1	13216.8	3126.0	994.7	833.7	736.0	668.9	630.6	605.6	592.2	590.3
62.5°	18391.6	14911.1	4021.0	1031.1	818.4	682.3	615.2	580.7	559.6	546.2	546.2
65°	20490.3	16607.3	4613.2	1153.8	841.4	640.1	557.7	529.0	509.8	500.2	498.3
67.5°	21904.7	17193.7	3800.6	1280.3	898.9	594.1	502.1	479.1	467.6	458.1	458.1
69°	21751.4	16452.0	2804.0	1312.9	916.1	571.1	471.5	454.2	438.9	435.1	431.2
70°	21266.5	15606.8	2349.7	1291.8	902.7	550.1	452.3	431.2	417.8	414.0	412.1
72.5°	18941.7	13535.0	1749.8	1123.1	768.6	477.2	400.6	381.4	369.9	364.2	364.2
75°	15737.1	11062.6	1366.5	893.1	601.8	402.5	343.1	327.7	318.2	314.3	312.4
77.5°	8820.1	6177.2	981.3	699.6	456.1	325.8	287.5	274.1	264.5	260.7	260.7
80°	2457.1	1765.2	576.9	461.9	310.5	247.2	228.1	218.5	205.1	195.5	201.2
82.5°	925.7	764.7	329.7	277.9	197.4	164.8	159.1	151.4	145.7	132.2	132.2
85°	450.4	371.8	210.8	147.6	109.2	86.2	82.4	78.6	74.7	65.2	67.1
87.5°	155.2	164.8	92.0	53.7	32.6	21.1	17.2	9.6	9.6	9.6	9.6
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)