

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: P956992

Luminaire Tested: **GALN-SB9C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64348 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 449.8
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

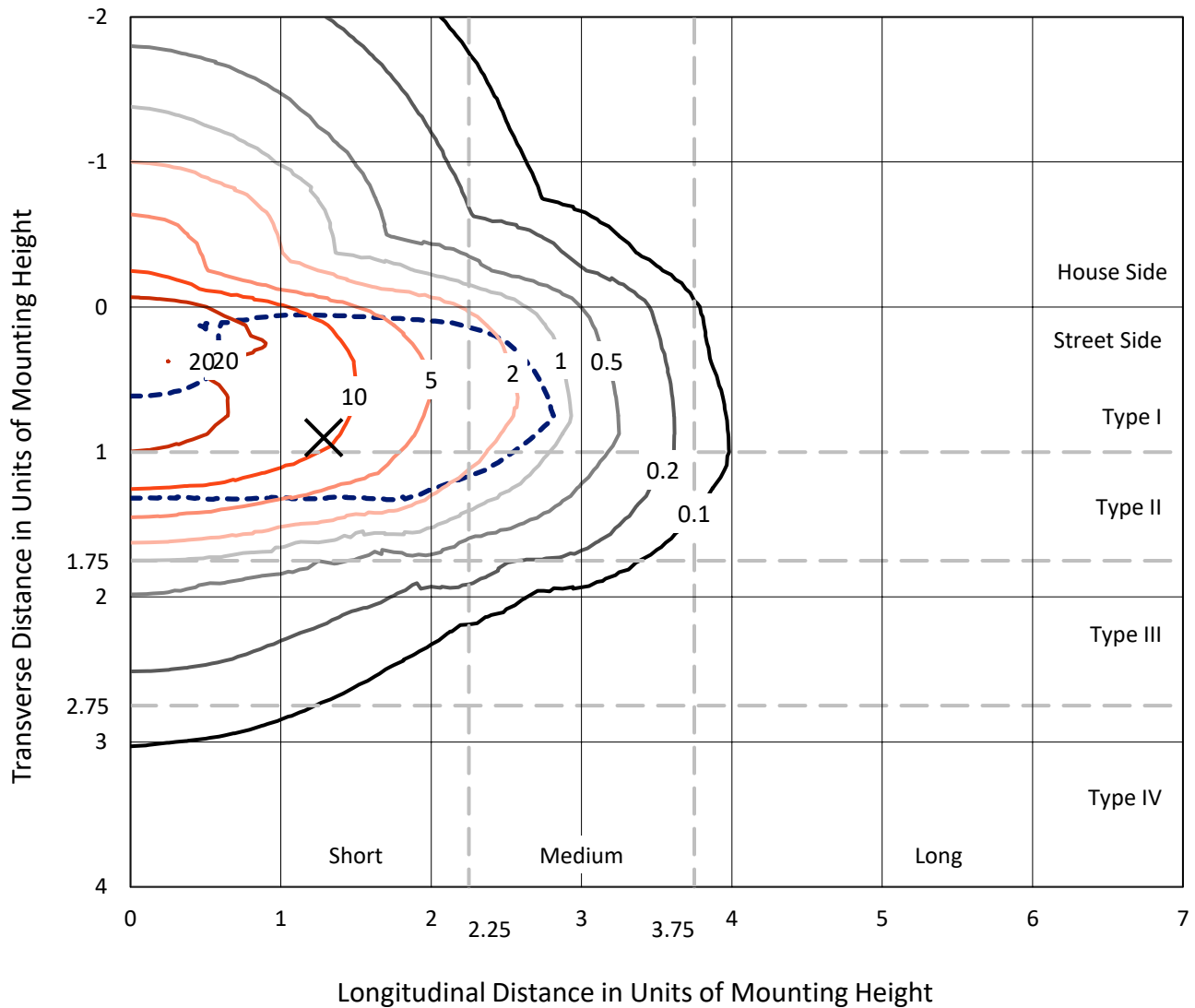


REPORT NUMBER: P956992

CATALOG NUMBER: GALN-SB9C-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

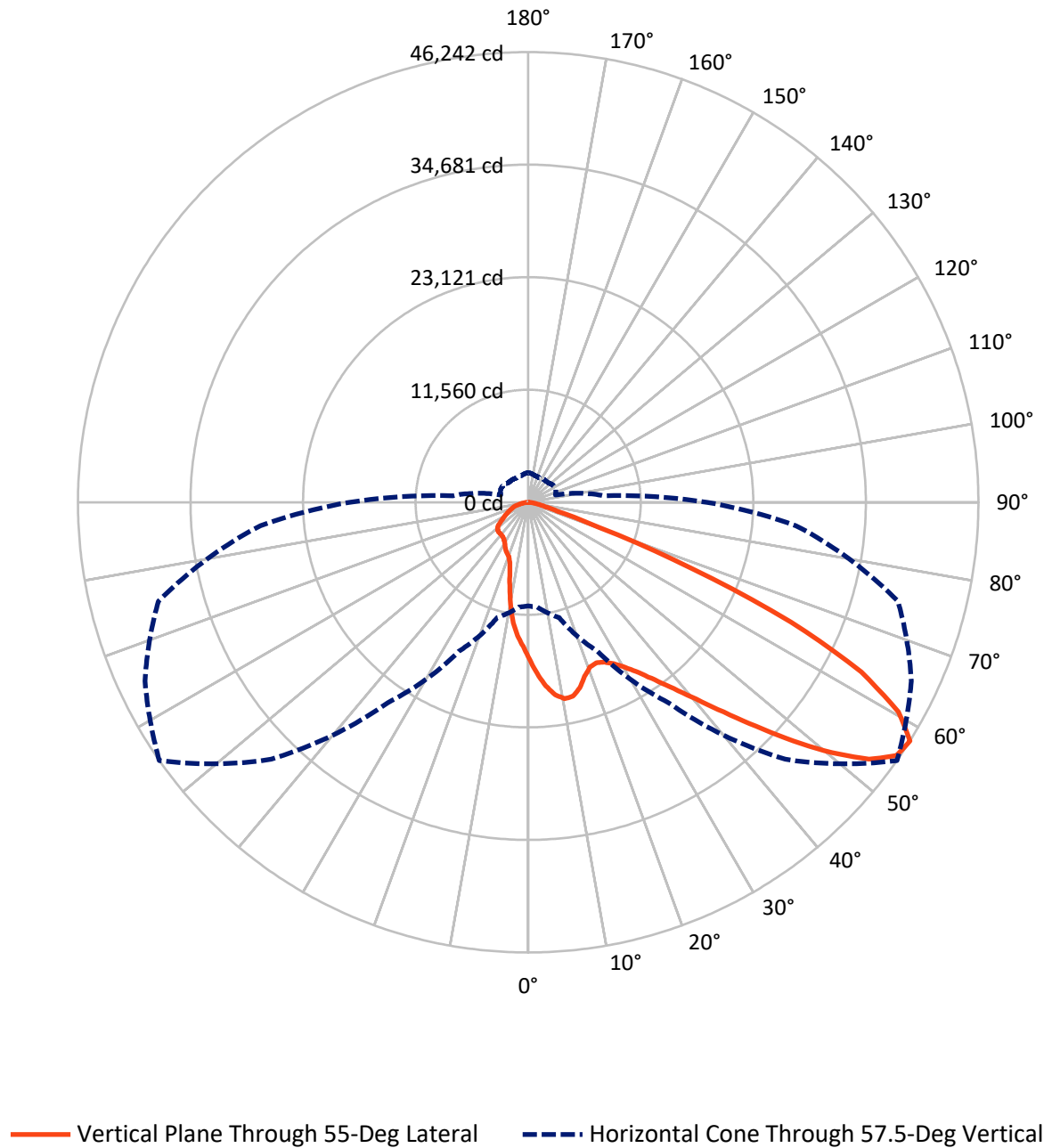


Based on 25 foot mounting height. Maximum calculated value = 31.2 fc
Type II - Short - N/A

REPORT NUMBER: P956992

CATALOG NUMBER: GALN-SB9C-727-U-AFL

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11643.5	0.0	11643.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	52704.5	0.0	52704.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	64348.0	0.0	64348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1496.2	2.3
10°-20°	3776.4	5.9
20°-30°	6026.1	9.4
30°-40°	9540.7	14.8
40°-50°	14603.1	22.7
50°-60°	15641.2	24.3
60°-70°	9840.0	15.3
70°-80°	2909.9	4.5
80°-90°	514.5	0.8
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°	64348.0	100.0
0°-180°	64348.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956992

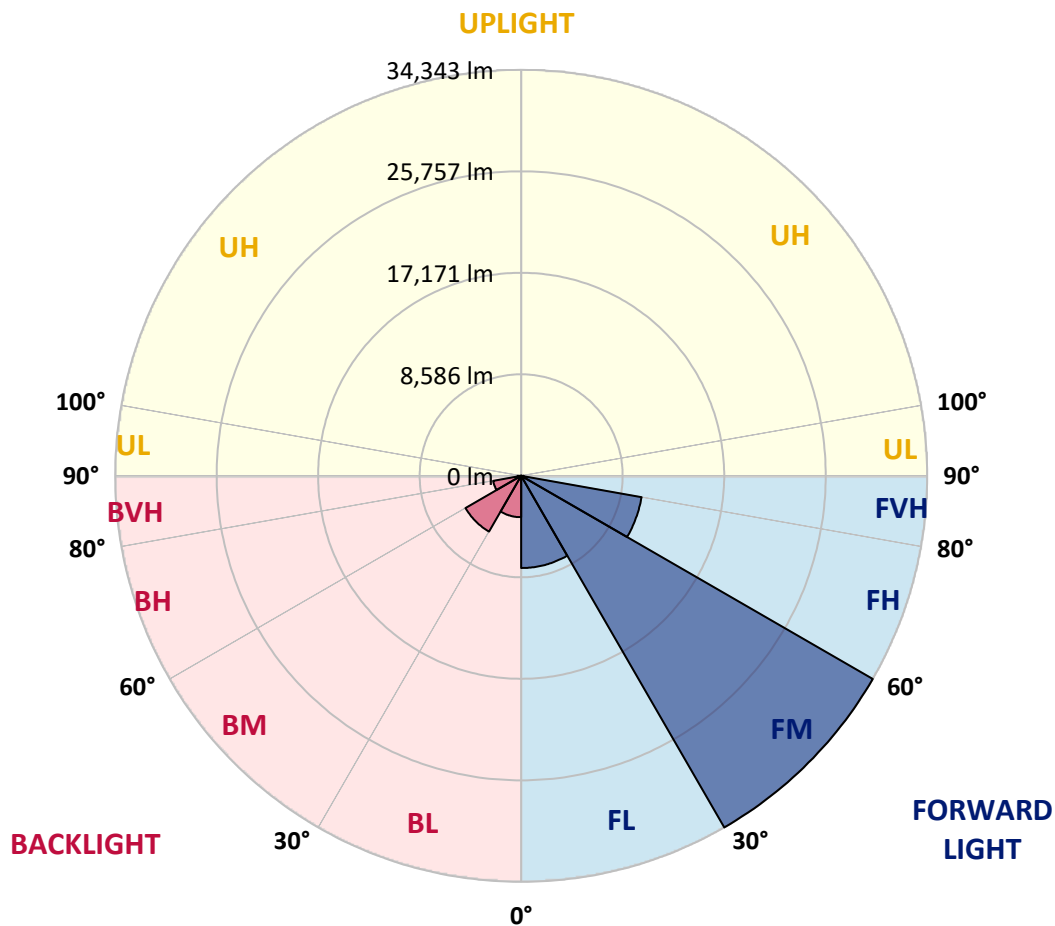
CATALOG NUMBER: GALN-SB9C-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7799.0	12.1			
FM	(30°-60°)	34343.0	53.4			
FH	(60°-80°)	10345.2	16.1			G4/12000
FVH	(80°-90°)	217.4	0.3			G2/225
BL	(0°-30°)	3499.6	5.4	B4/5000		
BM	(30°-60°)	5442.1	8.5	B4/8500		
BH	(60°-80°)	2404.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	297.1	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P956992

CATALOG NUMBER: GALN-SB9C-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5
2.5°	18498.6	18485.3	18558.5	18309.0	18139.4	17909.8	17607.1	17221.3	16805.5	16366.4	16176.7
5°	20165.2	20048.8	20125.3	19939.0	19752.7	19406.8	18957.7	18329.0	17560.6	16685.7	16220.0
7.5°	19902.4	19822.6	20018.8	20185.2	20324.9	20281.6	19952.3	19293.7	18302.4	17031.7	16356.4
10°	17783.4	17693.6	17969.7	18545.2	19390.1	20125.3	20524.5	20115.3	19060.8	17410.9	16489.4
12.5°	15914.0	15870.7	16053.7	16519.4	17457.4	18867.9	20451.3	20833.8	19849.2	17860.0	16669.1
15°	15115.6	15062.4	15178.8	15415.0	16013.7	17327.7	19786.0	21326.2	20624.3	18378.9	16955.1
17.5°	14939.3	14879.4	14929.3	15052.4	15438.3	16439.5	18781.4	21569.0	21432.6	18957.7	17194.7
20°	15265.3	15215.4	15222.0	15215.4	15484.8	16279.9	18082.8	21475.9	22137.8	19489.9	17427.5
22.5°	16053.7	15970.5	15973.8	15797.5	15943.9	16559.3	17899.9	21226.4	22766.5	19955.6	17603.8
25°	17337.7	17188.0	17217.9	16768.9	16728.9	17184.7	18185.9	21033.4	23391.9	20328.2	17637.1
27.5°	19094.1	18924.4	18834.6	18166.0	17846.6	18072.8	18768.1	21100.0	23984.0	20650.9	17553.9
30°	21289.6	21083.3	20900.4	19952.3	19373.5	19290.3	19672.9	21539.1	24682.6	20990.2	17410.9
32.5°	23980.7	23741.2	23408.5	22151.1	21336.1	20900.4	20843.8	22320.8	25500.9	21422.6	17337.7
35°	27184.1	26871.4	26399.1	24772.4	23741.2	22849.7	22387.3	23448.5	26621.9	22074.6	17420.9
37.5°	30484.0	30131.4	29698.9	27762.9	26495.5	25181.6	24270.1	24978.6	28115.5	22959.5	17640.4
40°	33527.7	33131.9	32729.4	31006.3	29645.7	28062.3	26575.4	26914.7	29941.8	24017.3	18013.0
42.5°	35324.0	35031.3	34878.3	33946.9	32895.7	31289.0	29442.8	29210.0	31994.2	25234.8	18438.8
45°	35244.2	35124.5	35596.8	35982.7	35733.2	34841.7	32802.6	31748.1	34053.3	26289.3	18831.3
47.5°	33361.4	33441.3	34495.8	36664.6	37619.3	38085.0	36628.0	34239.6	35843.0	27077.7	19007.6
50°	28238.6	28305.1	30746.8	35423.8	38105.0	40729.6	40423.6	36671.3	37230.1	27560.0	18967.7
52.5°	24183.6	24226.9	25274.7	31744.7	36501.6	42060.2	43843.2	38963.2	38244.7	27693.1	18744.8
55°	18215.9	18365.6	19539.8	24905.5	32330.2	41005.7	45925.6	41325.0	38886.7	27706.4	18511.9
57.5°	10641.5	10804.5	12254.8	16905.2	25128.3	37329.9	46241.6	43420.7	39322.5	27599.9	18372.2
60°	5212.6	5282.5	5914.5	8885.1	15494.8	30247.8	43700.2	44435.3	39565.3	27543.4	18365.6
62.5°	3512.8	3502.8	3529.4	4384.3	7634.3	19433.4	38404.4	42659.0	39435.6	27327.2	18299.0
65°	3020.5	2983.9	2884.1	3077.0	3955.2	8888.4	29672.3	37356.5	38447.6	26784.9	17843.3
67.5°	2611.3	2614.6	2618.0	2558.1	2824.2	4101.6	18132.7	29426.2	34901.6	24216.9	16086.9
70°	2162.2	2192.2	2205.5	2205.5	2301.9	2691.1	7740.8	20168.5	27530.1	18987.6	12956.7
72.5°	1969.3	1906.1	1912.7	1879.5	1879.5	2049.1	3116.9	11433.2	17344.3	10681.4	7907.1
75°	1606.7	1646.6	1653.3	1630.0	1553.5	1563.5	1849.5	4796.8	7421.4	4430.9	3908.6
77.5°	1387.1	1387.1	1400.5	1383.8	1323.9	1170.9	1234.1	1859.5	2524.8	1816.3	1952.7
80°	1114.4	1111.0	1167.6	1200.9	1107.7	864.9	788.4	1027.9	1121.0	798.4	1014.6
82.5°	542.2	575.5	801.7	914.8	841.6	625.4	482.3	638.7	598.8	352.6	455.7
85°	316.0	299.4	359.3	509.0	482.3	346.0	232.9	332.6	312.7	179.6	183.0
87.5°	99.8	93.1	73.2	173.0	139.7	96.5	63.2	96.5	86.5	39.9	39.9
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: P956992

CATALOG NUMBER: GALN-SB9C-727-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5	16123.5
2.5°	15940.6	15548.0	15158.8	14802.9	14586.7	14447.0	14307.3	14150.9	14091.0	14001.2
5°	15780.9	15022.5	14347.2	13765.0	13236.1	12820.3	12401.2	12061.9	11908.9	12012.0
7.5°	15687.7	14590.0	13548.8	12481.0	11453.1	10631.5	9916.3	9414.0	9187.8	9244.3
10°	15604.6	14101.0	12514.3	10827.7	9350.8	8332.9	7601.0	7218.5	7075.5	7105.4
12.5°	15528.1	13552.1	11266.8	9048.1	7478.0	6806.0	6596.4	6599.8	6626.4	6646.3
15°	15514.8	12890.2	9873.0	7491.3	6466.7	6423.5	6649.7	6792.7	6869.2	6892.5
17.5°	15494.8	12098.5	8452.6	6430.1	6220.5	6513.3	6722.8	6816.0	6875.9	6879.2
20°	15415.0	11093.9	7142.0	5924.5	6167.3	6420.1	6549.9	6623.1	6672.9	6689.6
22.5°	15168.8	9976.2	6120.8	5698.3	5954.4	6157.3	6310.4	6393.5	6423.5	6443.4
25°	14726.4	8725.4	5415.5	5482.1	5658.4	5914.5	6037.6	6054.2	6044.2	6074.2
27.5°	14147.6	7384.8	4976.4	5189.3	5415.5	5635.1	5701.6	5691.6	5671.7	5704.9
30°	13449.0	6180.6	4697.0	4860.0	5169.4	5369.0	5428.8	5405.6	5365.6	5402.2
32.5°	12710.5	5196.0	4467.5	4630.5	4966.5	5162.7	5222.6	5199.3	5169.4	5199.3
35°	12022.0	4507.4	4254.6	4477.5	4806.8	4999.7	5076.2	5079.6	5079.6	5116.1
37.5°	11389.9	4104.9	4078.3	4381.0	4697.0	4870.0	4979.8	4986.4	4843.4	4853.4
40°	10804.5	3935.2	3998.4	4317.8	4590.6	4756.9	4763.5	4391.0	4128.2	4121.5
42.5°	10325.4	3902.0	4021.7	4311.1	4514.1	4520.7	4051.7	3762.3	3689.1	3692.4
45°	9876.4	3892.0	4075.0	4311.1	4401.0	3905.3	3589.3	3512.8	3519.4	3546.0
47.5°	9374.1	3852.1	4084.9	4251.3	4075.0	3472.9	3379.7	3346.5	3333.1	3339.8
50°	8825.2	3709.0	3958.5	4131.5	3516.1	3286.6	3170.1	3160.2	3176.8	3186.8
52.5°	8246.4	3476.2	3742.3	3915.3	3260.0	3123.6	2993.8	3017.1	3090.3	3113.6
55°	7867.2	3203.4	3456.2	3482.8	3080.3	2970.6	2860.8	2914.0	3050.4	3093.6
57.5°	7767.4	2914.0	3130.2	3100.3	2850.8	2837.5	2771.0	2817.5	2990.5	3053.7
60°	7737.4	2654.5	2810.9	2787.6	2627.9	2691.1	2674.5	2697.8	2757.7	2777.6
62.5°	7504.6	2448.3	2524.8	2491.5	2428.3	2538.1	2578.0	2528.1	2574.7	2598.0
65°	6912.5	2282.0	2245.4	2222.1	2248.7	2348.5	2428.3	2328.5	2371.8	2438.3
67.5°	5934.5	2055.8	1956.0	1982.6	2065.8	2119.0	2222.1	2109.0	2145.6	2258.7
70°	4800.1	1769.7	1679.9	1756.4	1836.2	1946.0	1962.6	1886.1	1972.6	2099.0
72.5°	3396.4	1480.3	1417.1	1573.4	1600.0	1743.1	1706.5	1669.9	1789.7	1832.9
75°	2355.2	1194.2	1157.6	1277.4	1373.8	1496.9	1470.3	1513.6	1766.4	1786.3
77.5°	1490.3	928.1	904.8	981.3	1114.4	1250.8	1294.0	1786.3	3017.1	3136.9
80°	864.9	691.9	665.3	725.2	841.6	968.0	1247.4	2192.2	1989.2	1966.0
82.5°	482.3	475.7	442.4	459.1	562.2	698.6	1763.0	1543.5	1254.1	1294.0
85°	226.2	279.4	239.5	229.5	316.0	818.3	1177.6	881.5	585.5	572.2
87.5°	59.9	53.2	53.2	59.9	133.1	705.2	469.0	375.9	222.9	216.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)