

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: P529319

Luminaire Tested: **GALN-SA4C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17351 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

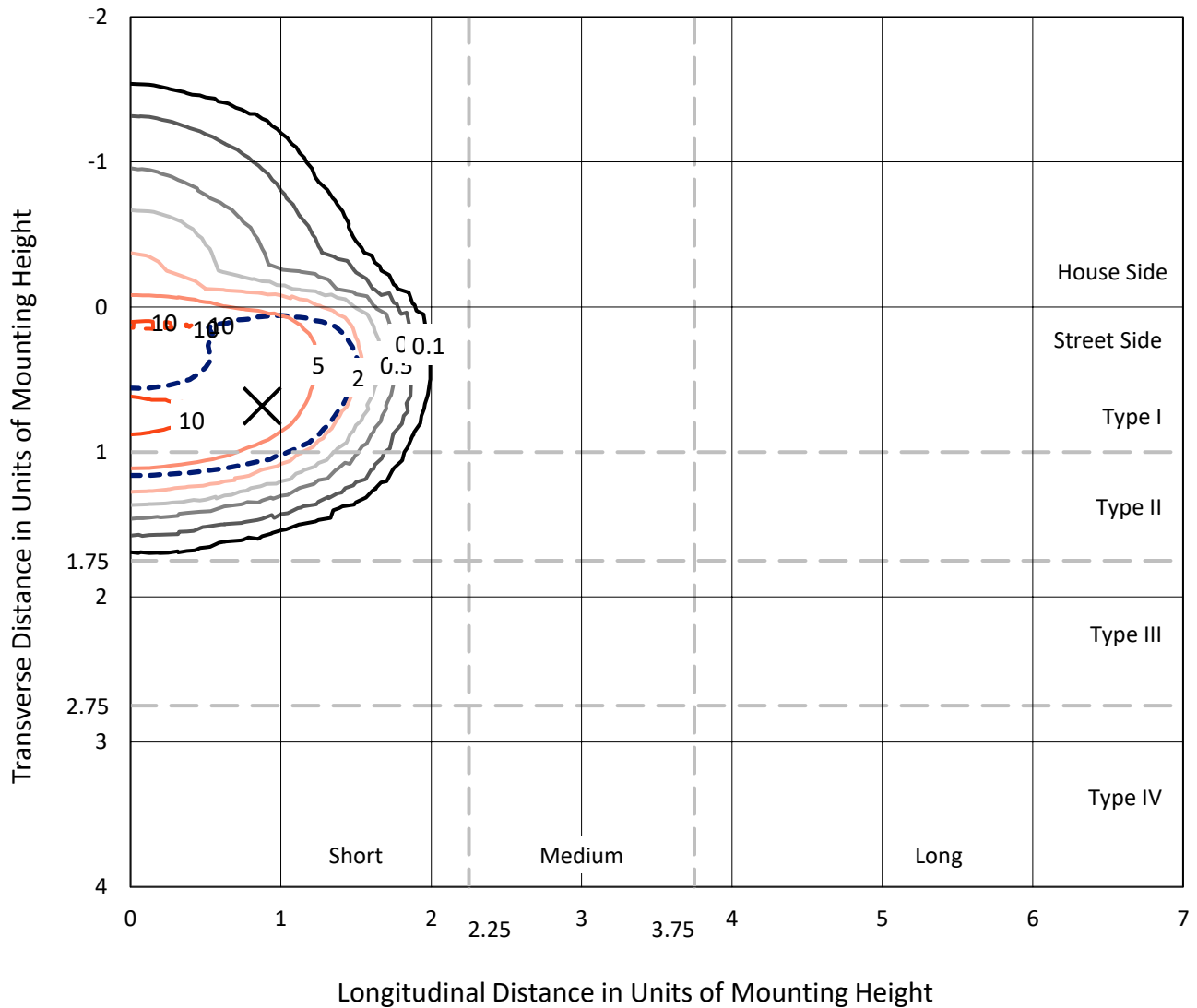
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529319
 CATALOG NUMBER: GALN-SA4C-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

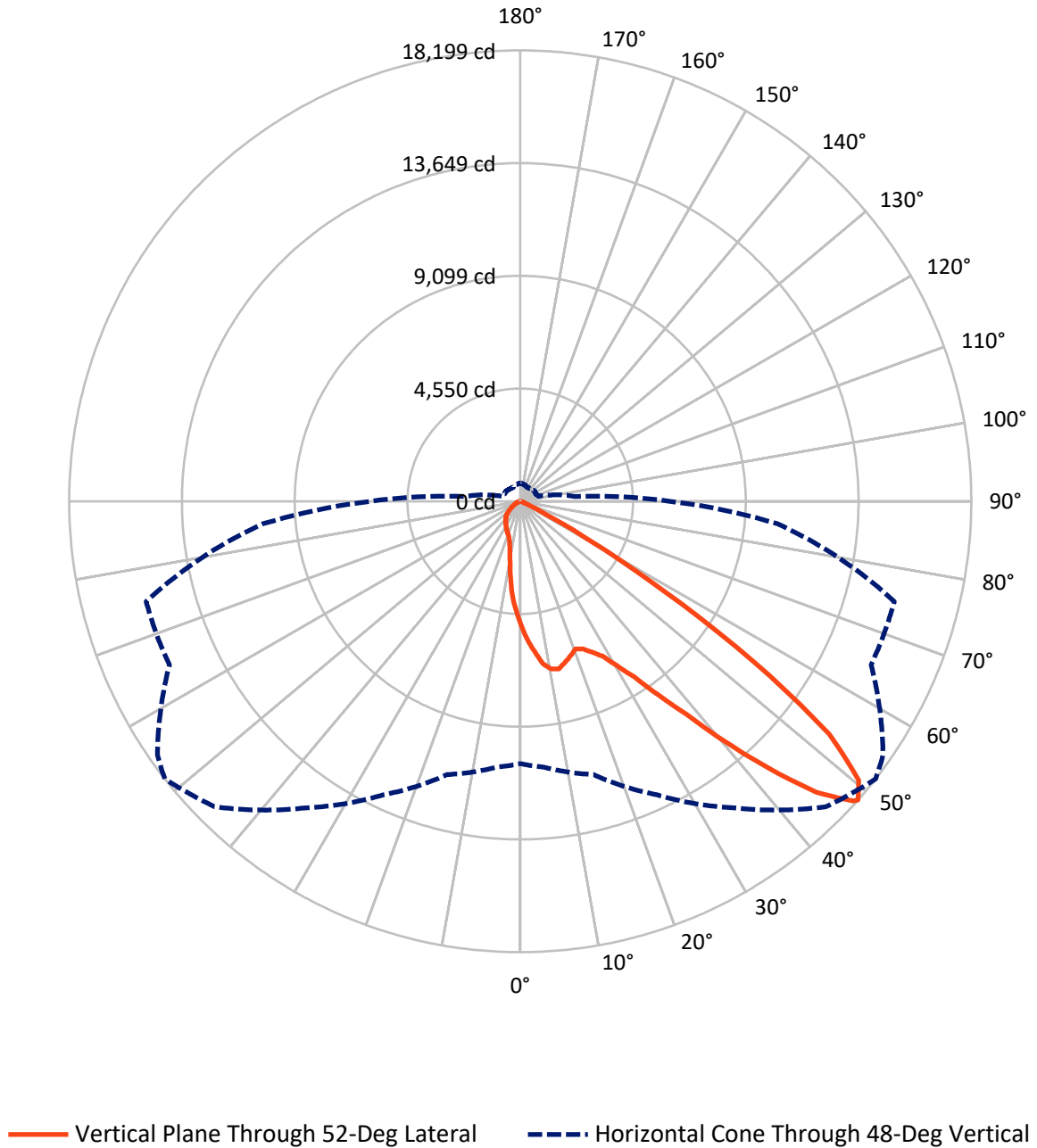
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P529319
CATALOG NUMBER: GALN-SA4C-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2112.6	0.0	2112.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	15238.4	0.0	15238.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	17351.0	0.0	17351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.6	2.6
10°-20°	1198.5	6.9
20°-30°	2046.4	11.8
30°-40°	3768.4	21.7
40°-50°	5852.4	33.7
50°-60°	3522.2	20.3
60°-70°	407.4	2.3
70°-80°	78.9	0.5
80°-90°	18.2	0.1
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°	17351.0	100.0
0°-180°	17351.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529319

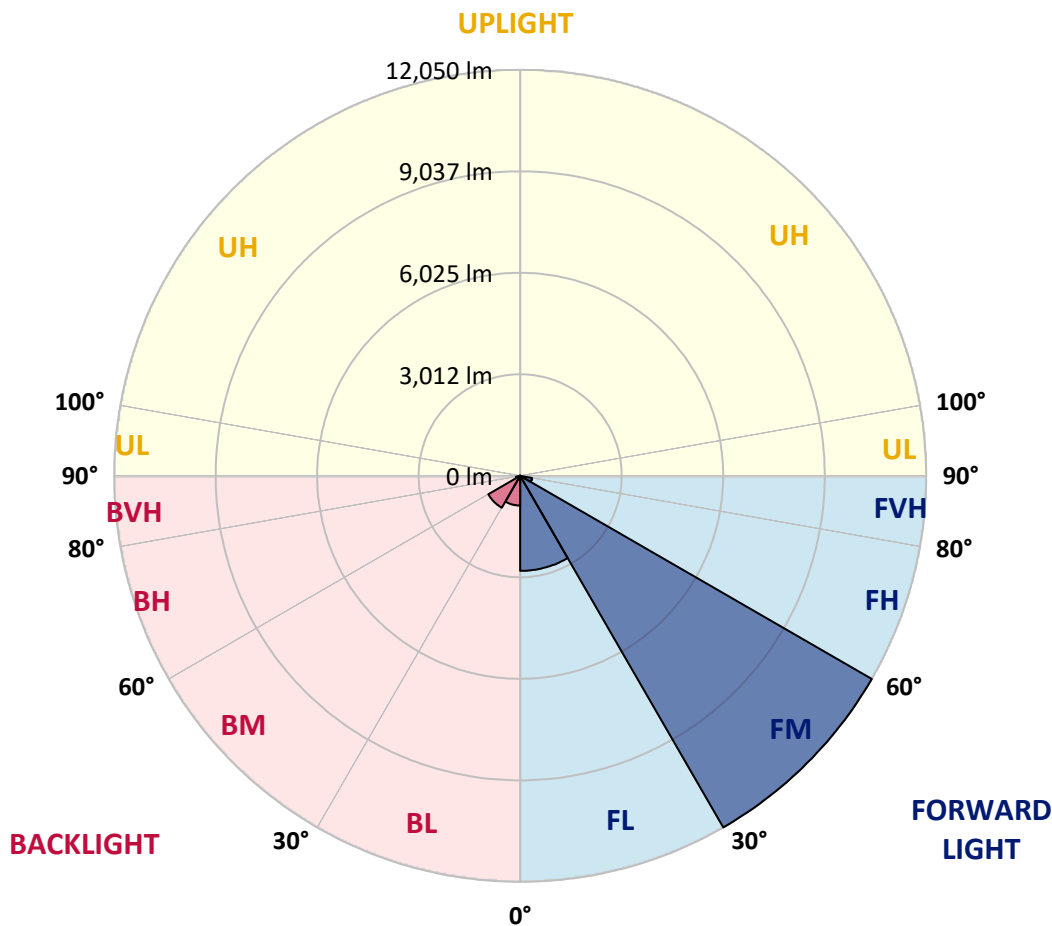
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.1	16.3			
FM (30°-60°)	12049.9	69.4			
FH (60°-80°)	358.7	2.1			G0/660
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	882.5	5.1	B2/1000		
BM (30°-60°)	1093.0	6.3	B2/2500		
BH (60°-80°)	127.5	0.7	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P529319

CATALOG NUMBER: GALN-SA4C-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7
2.5°	6073.0	5933.9	5946.5	5855.5	5802.4	5716.4	5600.0	5577.3	5450.8	5278.8	5104.3
5°	6619.4	6586.5	6629.5	6497.9	6503.0	6361.4	6088.2	6093.3	5802.4	5521.6	5251.0
7.5°	6654.8	6578.9	6621.9	6738.2	6806.5	6781.2	6626.9	6492.9	6217.2	5804.9	5410.3
10°	5959.2	6103.4	6148.9	6341.1	6614.3	6902.6	6884.9	6892.5	6662.4	6123.6	5546.9
12.5°	5541.8	5445.7	5600.0	5716.4	6128.7	6687.7	6943.1	6998.8	7016.5	6432.2	5683.5
15°	5352.1	5352.1	5377.4	5410.3	5708.8	6224.8	6745.8	6907.7	7289.6	6836.9	5898.5
17.5°	5471.0	5466.0	5501.4	5433.1	5544.4	5941.5	6563.7	6748.4	7595.7	7234.0	6068.0
20°	5832.7	5850.4	5827.7	5630.4	5638.0	5936.4	6361.4	6652.2	7803.1	7578.0	6293.1
22.5°	6336.1	6346.2	6217.2	6002.2	5939.0	6085.7	6477.7	6700.3	7970.0	7990.3	6361.4
25°	6917.8	6877.4	6852.1	6548.5	6356.3	6482.8	6740.8	6869.8	8073.7	8344.4	6556.1
27.5°	7724.7	7643.8	7489.5	7218.8	7077.2	6897.6	7082.2	7294.7	8369.7	8840.1	6768.6
30°	8916.0	8845.2	8544.2	8195.2	7823.3	7646.3	7704.5	7820.8	8903.4	9414.3	7049.4
32.5°	10709.3	10560.1	10125.1	9459.8	8954.0	8465.8	8450.6	8574.6	9381.4	10208.5	7383.2
35°	12684.8	12639.3	11999.3	11313.9	10335.0	9581.3	9593.9	9659.7	10297.1	11250.6	7820.8
37.5°	13997.5	14247.9	13840.7	13104.7	12282.6	11205.1	10931.9	10954.7	11554.2	12485.0	8610.0
40°	15011.8	14799.3	14847.4	14675.4	14113.9	13380.4	12775.8	12657.0	13008.5	13850.8	9394.1
42.5°	14569.2	14579.3	14875.2	15282.4	15421.6	15368.4	14751.3	14526.2	14253.0	14968.8	10140.2
45°	13319.7	13580.2	13964.6	15042.2	15988.1	16876.0	16754.5	16380.2	15113.0	15854.1	10570.2
47.5°	11326.5	11316.4	11946.2	13347.5	15449.4	17528.5	18079.9	17816.9	15722.6	15755.4	10481.7
48°	10590.5	10772.6	11422.6	13071.8	15107.9	17432.4	18198.8	17867.5	15618.9	15623.9	10405.8
50°	7828.4	7795.5	8604.9	10628.4	13494.2	16380.2	17698.0	17956.0	15616.3	14958.7	9874.7
52.5°	4135.5	4277.2	4866.5	6682.6	9540.8	13405.7	15611.3	16013.4	15064.9	13871.1	9110.8
55°	1757.9	1588.4	2041.2	3017.5	5367.3	8956.5	11453.0	12348.4	12737.9	12275.0	7970.0
57.5°	627.3	685.5	789.2	1135.7	2256.2	4901.9	6829.3	7524.9	8825.0	9007.1	5430.6
60°	402.2	409.8	442.6	521.1	847.3	1889.4	3240.1	3794.1	4383.4	4525.0	2534.4
62.5°	311.1	313.6	328.8	341.5	402.2	733.5	1216.6	1441.7	1497.4	1287.4	665.2
65°	260.5	263.1	268.1	268.1	285.8	344.0	424.9	467.9	455.3	450.2	376.9
67.5°	199.8	204.9	215.0	215.0	225.1	209.9	235.2	250.4	283.3	344.0	321.2
70°	156.8	159.4	166.9	172.0	172.0	151.8	169.5	184.6	207.4	255.5	252.9
72.5°	121.4	126.5	131.5	131.5	123.9	103.7	121.4	134.1	149.2	177.1	172.0
75°	93.6	93.6	96.1	78.4	60.7	53.1	73.4	88.5	111.3	116.4	96.1
77.5°	25.3	27.8	25.3	22.8	25.3	37.9	48.1	55.6	70.8	70.8	63.2
80°	0.0	2.5	7.6	15.2	25.3	35.4	43.0	48.1	55.6	60.7	58.2
82.5°	0.0	2.5	7.6	15.2	22.8	27.8	37.9	40.5	45.5	53.1	53.1
85°	0.0	2.5	5.1	10.1	15.2	17.7	17.7	15.2	15.2	12.6	10.1
87.5°	0.0	0.0	2.5	5.1	5.1	7.6	7.6	7.6	7.6	7.6	7.6
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: P529319

CATALOG NUMBER: GALN-SA4C-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7	5010.7
2.5°	5036.0	4957.6	4838.7	4651.5	4471.9	4355.6	4244.3	4120.3	4052.0	4047.0	4009.1
5°	5096.7	4919.6	4636.3	4315.1	3971.1	3675.2	3376.7	3181.9	3007.4	2911.3	2893.6
7.5°	5129.6	4899.4	4441.6	3902.8	3316.0	2832.9	2499.0	2253.7	2157.6	2086.7	2084.2
10°	5197.9	4864.0	4150.7	3356.5	2630.5	2142.4	1912.2	1800.9	1747.8	1727.6	1697.2
12.5°	5248.4	4798.2	3852.2	2795.0	2079.1	1775.6	1674.4	1649.1	1651.7	1661.8	1649.1
15°	5319.3	4740.0	3450.1	2294.1	1745.3	1598.6	1598.6	1603.6	1639.0	1644.1	1641.6
17.5°	5314.2	4626.2	3035.2	1889.4	1542.9	1522.7	1530.3	1578.3	1601.1	1608.7	1591.0
20°	5374.9	4520.0	2607.8	1613.7	1429.1	1459.4	1510.0	1522.7	1550.5	1555.6	1535.3
22.5°	5357.2	4254.4	2210.7	1396.2	1343.1	1401.3	1451.9	1467.0	1459.4	1444.3	1441.7
25°	5324.3	4026.8	1846.4	1252.0	1279.9	1343.1	1391.2	1363.3	1348.2	1350.7	1353.2
27.5°	5266.1	3738.4	1545.4	1150.9	1193.9	1287.4	1284.9	1274.8	1290.0	1277.3	1290.0
30°	5256.0	3450.1	1297.6	1059.8	1130.6	1198.9	1204.0	1221.7	1239.4	1216.6	1239.4
32.5°	5271.2	3133.9	1120.5	1004.2	1092.7	1095.2	1150.9	1168.6	1155.9	1105.3	1110.4
35°	5387.6	2891.1	991.5	973.8	1032.0	1034.5	1087.6	1064.9	1009.2	978.9	996.6
37.5°	5632.9	2688.7	930.8	946.0	951.0	983.9	986.5	940.9	946.0	943.5	953.6
40°	5946.5	2534.4	887.8	920.7	915.6	938.4	847.3	872.6	895.4	903.0	908.0
42.5°	6161.5	2423.1	860.0	880.2	870.1	829.6	779.0	804.3	822.0	849.9	854.9
45°	6257.7	2334.6	827.1	809.4	809.4	736.0	715.8	720.9	761.3	791.7	786.6
47.5°	6100.8	2248.6	768.9	715.8	733.5	672.8	650.0	650.0	693.0	731.0	723.4
48°	6040.1	2213.2	771.5	695.6	708.2	662.7	639.9	634.9	682.9	718.3	718.3
50°	5739.1	2081.7	705.7	639.9	614.6	609.6	594.4	599.5	629.8	662.7	662.7
52.5°	5152.3	1798.4	596.9	548.9	503.3	533.7	541.3	531.2	546.3	576.7	574.2
55°	4299.9	1381.0	478.1	455.3	419.9	452.8	467.9	455.3	440.1	462.9	462.9
57.5°	2754.5	743.6	381.9	387.0	351.6	384.5	397.1	366.8	338.9	356.6	354.1
60°	1241.9	445.2	313.6	306.1	283.3	321.2	341.5	306.1	268.1	280.8	293.4
62.5°	465.4	316.2	237.8	232.7	227.6	263.1	273.2	245.3	207.4	215.0	217.5
65°	341.5	278.2	189.7	172.0	182.1	207.4	202.3	174.5	149.2	149.2	154.3
67.5°	290.9	242.8	154.3	134.1	134.1	136.6	126.5	111.3	103.7	108.8	113.8
70°	227.6	192.2	121.4	103.7	93.6	83.5	73.4	70.8	63.2	70.8	68.3
72.5°	146.7	129.0	93.6	78.4	70.8	58.2	48.1	45.5	37.9	35.4	35.4
75°	78.4	78.4	73.4	63.2	55.6	45.5	37.9	30.4	20.2	15.2	15.2
77.5°	55.6	60.7	65.8	60.7	50.6	37.9	30.4	20.2	10.1	5.1	5.1
80°	53.1	60.7	65.8	58.2	50.6	37.9	27.8	15.2	7.6	2.5	2.5
82.5°	48.1	55.6	60.7	53.1	45.5	32.9	25.3	15.2	7.6	2.5	2.5
85°	10.1	12.6	15.2	15.2	17.7	22.8	17.7	12.6	5.1	2.5	2.5
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	5.1	5.1	2.5	2.5	2.5
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)