

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: P647868

Luminaire Tested: **GALN-SA4A-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12781.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

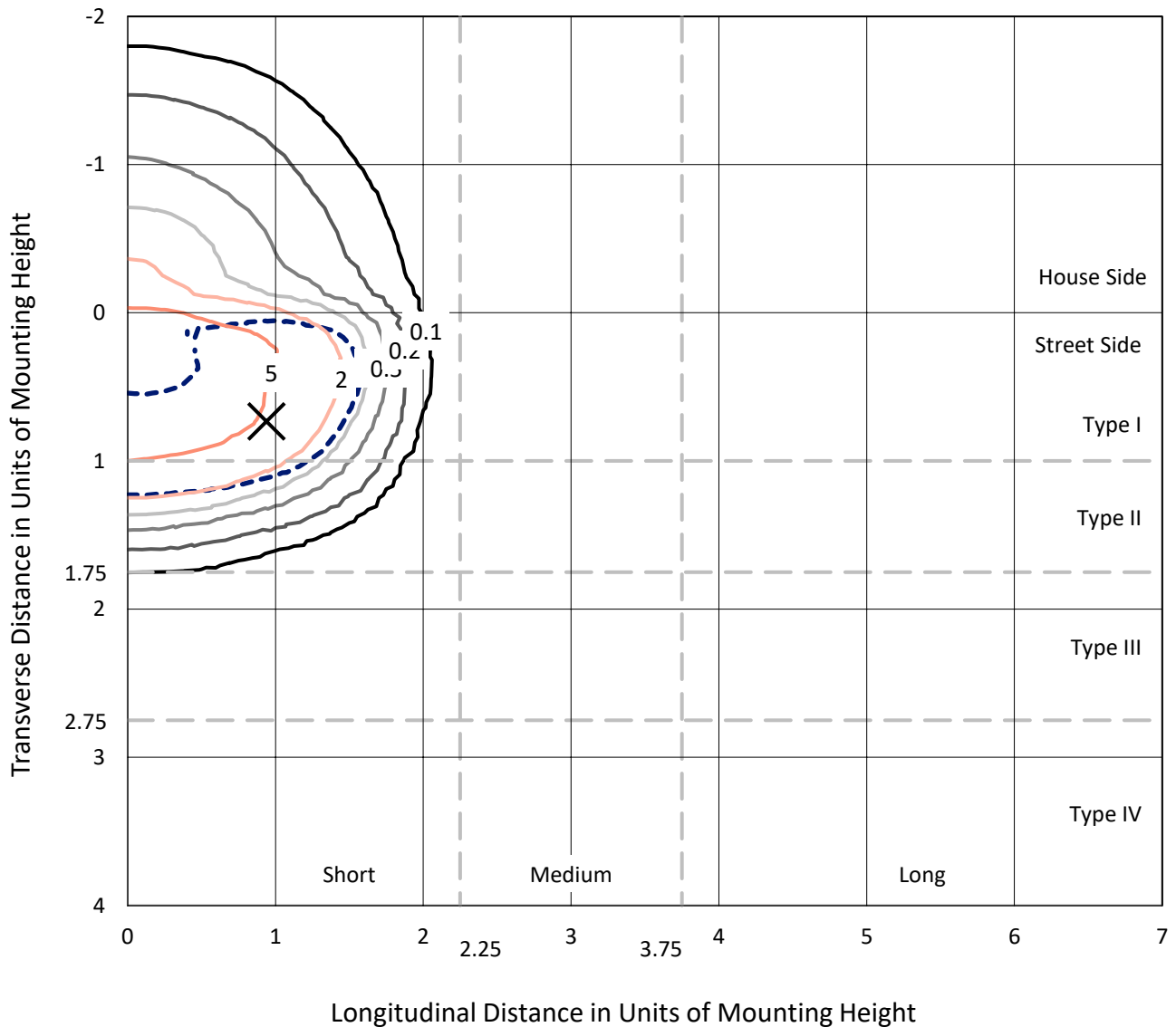
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

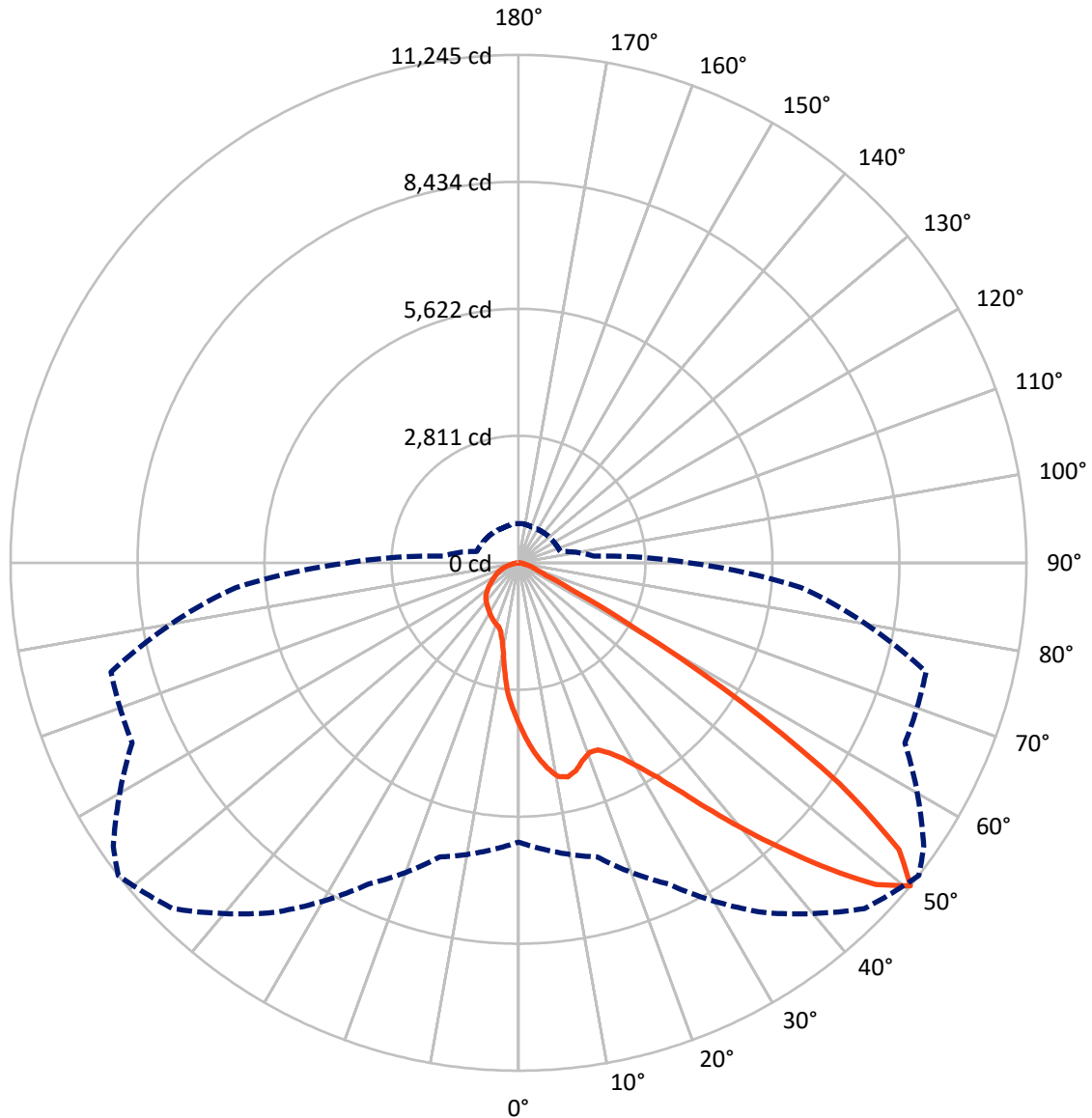
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2402.7	0.0	2402.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10379.0	0.0	10379.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	12781.7	0.0	12781.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	2.6
10°-20°	890.1	7.0
20°-30°	1499.3	11.7
30°-40°	2515.9	19.7
40°-50°	3848.7	30.1
50°-60°	2806.0	22.0
60°-70°	624.5	4.9
70°-80°	225.2	1.8
80°-90°	39.9	0.3
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°	12781.7	100.0
0°-180°	12781.7	100.0

Coefficient of Utilization

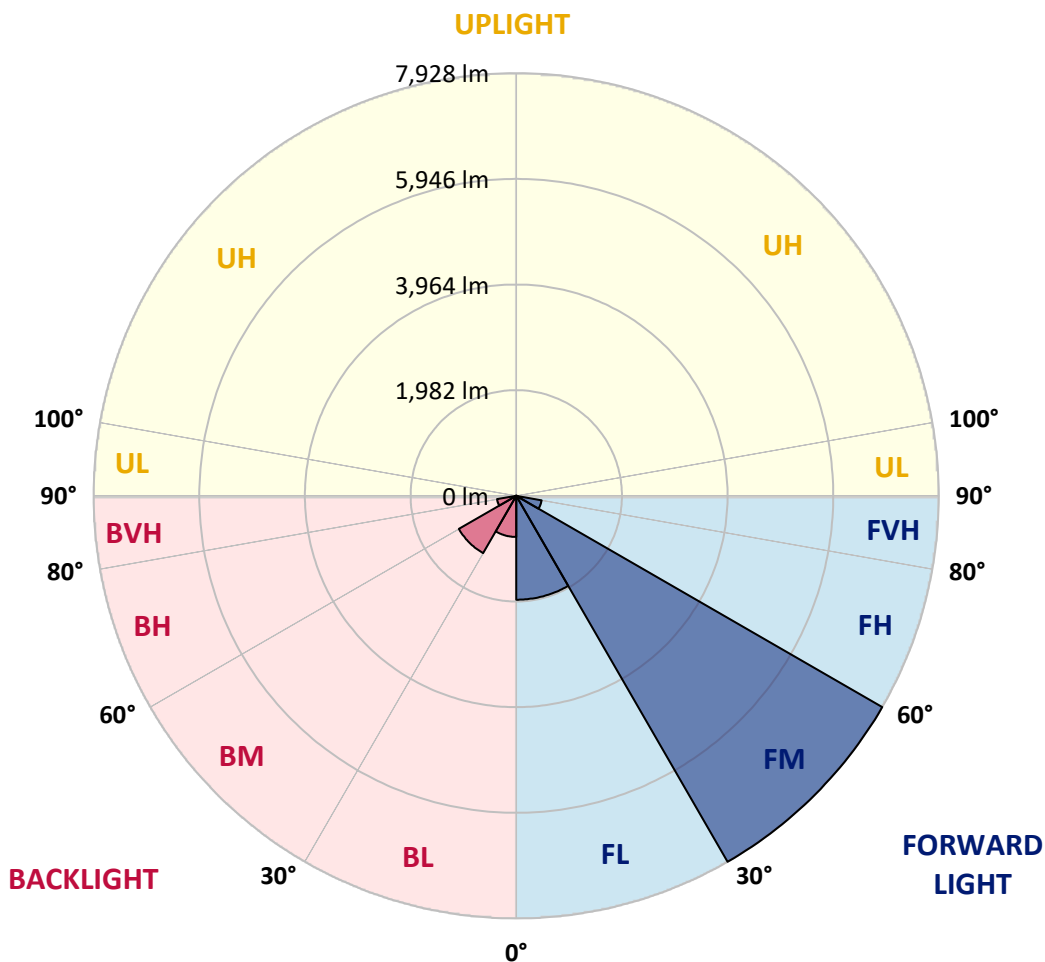


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.6	15.3			
FM (30°-60°)	7927.9	62.0			
FH (60°-80°)	483.7	3.8			G0/660
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	771.8	6.0	B2/1000		
BM (30°-60°)	1242.8	9.7	B2/2500		
BH (60°-80°)	366.1	2.9	B1/500		G1/500
BVH (80°-90°)	22.0	0.2			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0
2.5°	4242.2	4160.5	4169.8	4111.3	4048.1	4029.6	3965.0	3903.3	3857.1	3758.6	3667.7
5°	4636.5	4611.9	4574.9	4528.7	4481.0	4363.9	4297.7	4220.6	4051.2	3898.7	3747.8
7.5°	4693.5	4688.9	4709.0	4709.0	4725.9	4681.2	4587.3	4533.3	4353.1	4105.1	3824.8
10°	4293.0	4306.9	4403.9	4530.3	4705.8	4827.6	4812.2	4798.3	4601.1	4262.3	3915.6
12.5°	3974.2	3943.3	4000.3	4108.2	4371.6	4665.8	4864.5	4866.0	4815.2	4513.3	3981.9
15°	3793.9	3815.5	3830.9	3881.7	4080.4	4420.9	4770.6	4873.8	5097.1	4690.5	4086.6
17.5°	3909.5	3837.1	3834.0	3846.3	3948.0	4203.7	4596.5	4773.6	5251.2	4918.4	4216.0
20°	4060.4	4058.9	4015.8	4000.3	3998.9	4226.8	4482.5	4722.8	5332.8	5214.2	4347.0
22.5°	4325.4	4325.4	4254.5	4220.6	4148.3	4334.6	4497.9	4661.2	5468.3	5417.5	4410.1
25°	4769.0	4696.6	4574.9	4491.8	4450.2	4516.4	4661.2	4807.5	5586.9	5633.1	4541.0
27.5°	5178.8	5064.8	5004.7	4861.4	4806.0	4767.5	4899.9	5047.8	5725.6	5969.0	4611.9
30°	5643.9	5623.9	5516.1	5331.3	5194.2	5123.3	5245.0	5391.3	5979.8	6312.5	4775.2
32.5°	6475.7	6294.0	6147.6	5921.2	5697.9	5546.9	5667.0	5764.1	6401.8	6671.4	4953.9
35°	7373.8	7315.3	7062.7	6654.4	6312.5	6176.9	6247.8	6320.1	6893.2	7219.7	5254.2
37.5°	8256.4	8176.3	7968.4	7624.9	7209.0	6933.2	6984.0	7068.8	7444.7	7959.1	5620.8
40°	8891.0	8792.5	8687.8	8636.9	8224.1	7846.7	7817.4	7839.0	8190.2	8652.3	6027.5
42.5°	8937.3	9059.0	9091.3	9296.2	9199.2	8889.6	8709.3	8713.9	8901.8	9337.7	6438.8
45°	8840.2	8727.8	8966.5	9525.7	9846.1	9990.9	9687.4	9648.9	9342.4	9735.2	6643.7
47.5°	7822.0	7852.9	8256.4	9140.6	10066.4	10713.3	10642.5	10514.6	9578.0	9721.3	6611.3
50°	6183.1	6369.5	6743.7	7845.2	9450.3	10827.3	11244.7	10949.0	9437.9	9339.3	6281.7
52.5°	4117.4	4194.5	4440.9	5862.7	7598.7	9678.2	10551.6	10619.4	9308.5	8838.7	5864.2
55°	1833.1	1826.9	2173.5	3062.3	4767.5	7364.6	8621.5	9034.3	8810.9	8328.8	5457.6
57.5°	776.3	802.6	944.2	1323.2	2344.5	4444.0	5841.1	6203.1	6776.2	6839.3	4186.8
60°	525.2	528.4	566.9	662.3	981.3	2087.2	3063.8	3498.2	3908.0	3880.2	2221.2
62.5°	412.8	423.6	452.9	491.4	582.2	947.4	1371.0	1612.7	1639.0	1378.6	842.6
65°	352.7	354.3	383.6	415.9	455.9	551.5	660.9	673.1	680.8	656.2	619.2
67.5°	291.1	294.3	317.3	354.3	391.3	422.0	452.9	468.3	503.7	573.0	563.8
70°	231.1	235.7	255.7	286.5	320.4	338.9	377.4	391.3	423.6	477.6	499.1
72.5°	175.6	177.1	194.1	215.6	246.5	265.0	297.3	312.7	334.3	380.5	400.5
75°	126.3	130.9	143.3	154.0	158.6	171.0	201.8	218.8	249.5	269.6	271.1
77.5°	66.2	69.3	72.4	72.4	87.8	110.9	130.9	140.2	161.8	177.1	169.4
80°	26.2	27.7	35.4	47.8	61.6	80.1	94.0	98.6	117.1	126.3	130.9
82.5°	15.4	16.9	23.1	33.9	44.7	57.0	67.8	72.4	84.7	95.5	98.6
85°	7.7	9.2	13.9	21.5	29.3	35.4	33.9	32.3	32.3	30.8	32.3
87.5°	3.1	3.1	4.6	4.6	4.6	6.2	7.7	7.7	7.7	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0	3603.0
2.5°	3607.6	3546.0	3489.0	3384.2	3270.2	3237.9	3105.4	3057.6	3023.8	2983.7	2971.4
5°	3626.1	3544.4	3361.1	3150.1	2982.2	2766.5	2624.8	2472.3	2361.4	2333.7	2326.0
7.5°	3664.6	3524.4	3208.6	2889.7	2546.2	2253.6	2030.2	1910.1	1803.8	1797.6	1786.8
10°	3707.7	3464.3	3042.3	2541.6	2102.6	1831.5	1697.5	1645.2	1618.9	1612.7	1609.7
12.5°	3743.1	3452.0	2855.8	2202.7	1788.4	1625.1	1585.0	1580.4	1591.2	1594.3	1600.5
15°	3758.6	3402.7	2631.0	1899.3	1592.8	1532.6	1549.6	1568.1	1575.8	1595.8	1580.4
17.5°	3787.8	3339.6	2353.7	1659.0	1483.4	1494.2	1523.4	1545.0	1557.3	1571.2	1551.1
20°	3803.2	3282.6	2093.4	1515.7	1444.9	1464.9	1504.9	1521.9	1537.3	1543.4	1520.4
22.5°	3789.3	3165.5	1863.9	1400.2	1407.9	1434.1	1469.5	1488.0	1478.8	1454.1	1440.3
25°	3752.4	3000.7	1625.1	1326.2	1355.5	1401.7	1429.4	1415.6	1398.7	1384.8	1380.2
27.5°	3750.8	2798.8	1452.5	1258.5	1310.9	1374.0	1364.8	1352.5	1360.1	1349.3	1337.1
30°	3758.6	2603.2	1310.9	1220.0	1278.5	1309.3	1320.1	1307.8	1317.0	1297.0	1303.1
32.5°	3718.5	2412.3	1218.4	1175.3	1240.0	1238.5	1273.9	1283.1	1261.6	1220.0	1226.2
35°	3735.5	2258.2	1139.9	1155.3	1196.9	1196.9	1224.6	1213.8	1156.8	1132.1	1138.3
37.5°	3852.5	2107.2	1101.4	1127.5	1155.3	1167.6	1158.4	1112.2	1098.3	1098.3	1101.4
40°	3963.4	1977.9	1078.3	1121.4	1116.8	1124.5	1056.7	1061.4	1061.4	1062.8	1055.2
42.5°	4062.0	1890.1	1059.8	1084.5	1092.1	1052.1	1010.5	1005.8	1016.6	1015.1	1009.0
45°	4097.4	1817.7	1033.6	1042.8	1049.0	982.7	962.7	953.5	965.8	970.5	976.6
47.5°	3961.8	1757.6	1004.4	985.9	973.5	930.4	904.2	887.3	902.6	928.9	935.0
50°	3787.8	1679.0	958.1	922.7	896.5	878.0	859.5	842.6	853.4	871.9	867.3
52.5°	3530.5	1555.8	899.6	862.6	817.9	822.5	805.6	796.4	802.6	802.6	798.0
55°	3163.9	1278.5	801.0	774.8	737.8	750.2	753.2	741.0	728.6	739.4	730.1
57.5°	2159.6	902.6	714.7	714.7	677.8	694.7	693.2	663.9	634.6	637.8	631.6
60°	1249.3	719.3	659.3	653.1	614.6	628.4	631.6	611.5	566.9	569.9	563.8
62.5°	710.1	614.6	576.1	566.9	559.1	571.5	571.5	545.3	506.8	509.9	503.7
65°	603.8	569.9	514.5	512.9	509.9	512.9	500.7	472.9	439.0	425.2	426.7
67.5°	548.4	526.8	472.9	459.0	449.8	448.3	425.2	398.9	383.6	371.2	369.7
70°	480.6	463.7	423.6	405.1	395.9	374.3	351.2	334.3	312.7	306.5	312.7
72.5°	380.5	379.0	363.5	343.5	323.5	306.5	286.5	263.4	243.4	238.7	228.0
75°	263.4	266.5	269.6	266.5	249.5	228.0	204.8	186.4	161.8	147.9	144.8
77.5°	172.5	177.1	181.7	175.6	164.8	144.8	129.4	106.3	87.8	77.0	75.5
80°	126.3	132.5	135.5	130.9	118.6	103.2	86.3	67.8	53.9	44.7	44.7
82.5°	97.0	103.2	106.3	98.6	86.3	73.9	61.6	47.8	37.0	29.3	27.7
85°	33.9	32.3	38.5	40.0	47.8	44.7	37.0	27.7	21.5	15.4	13.9
87.5°	9.2	9.2	10.8	10.8	9.2	7.7	7.7	7.7	6.2	4.6	4.6
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)