

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: P528856

Luminaire Tested: **GALN-SA4A-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12824 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

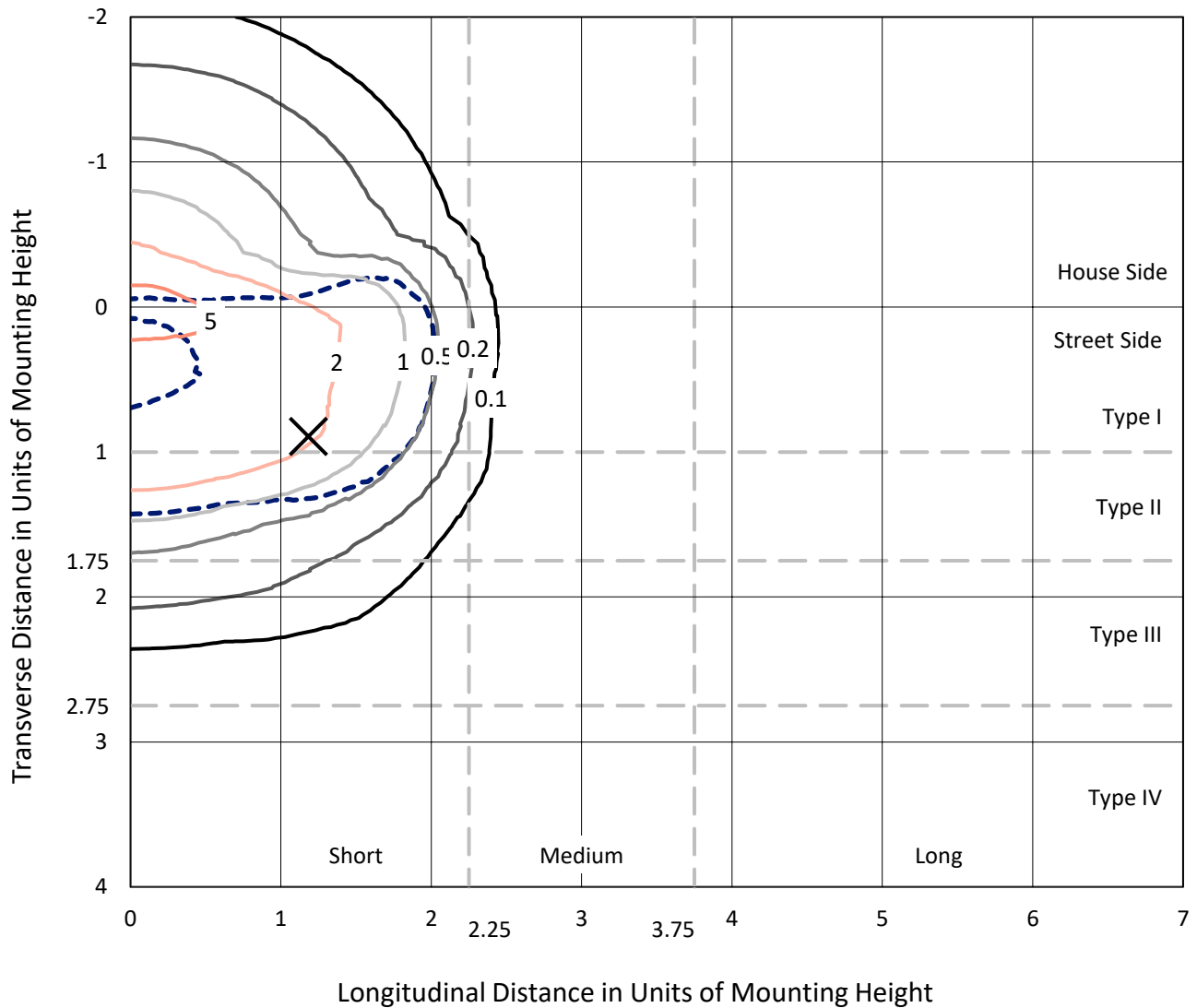
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

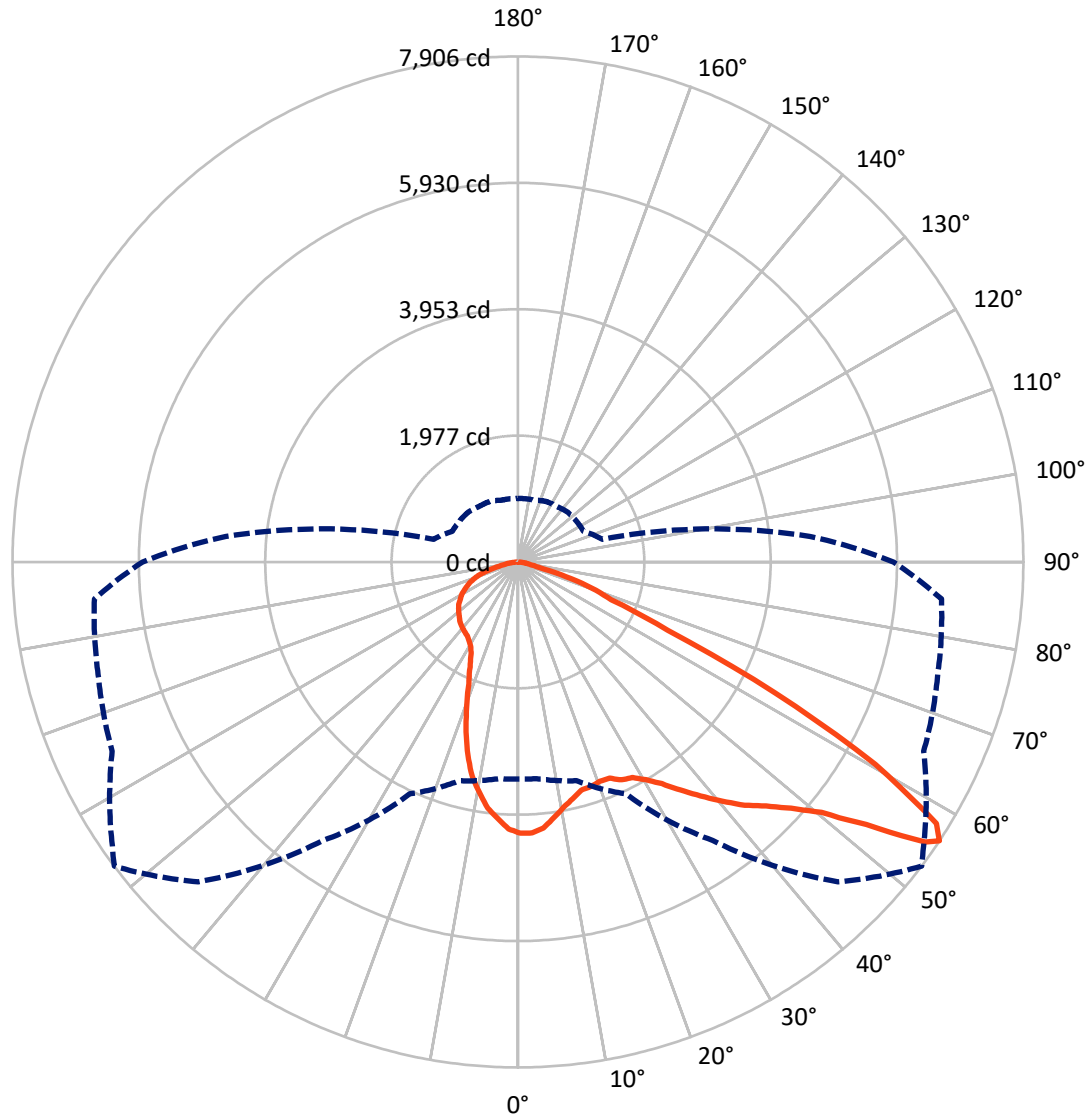
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3742.3	0.0	3742.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	9081.7	0.0	9081.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	12824.0	0.0	12824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	2.9
10°-20°	938.1	7.3
20°-30°	1383.3	10.8
30°-40°	1976.4	15.4
40°-50°	2720.3	21.2
50°-60°	3214.7	25.1
60°-70°	1713.2	13.4
70°-80°	434.6	3.4
80°-90°	67.8	0.5
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°	12824.0	100.0
0°-180°	12824.0	100.0

Coefficient of Utilization



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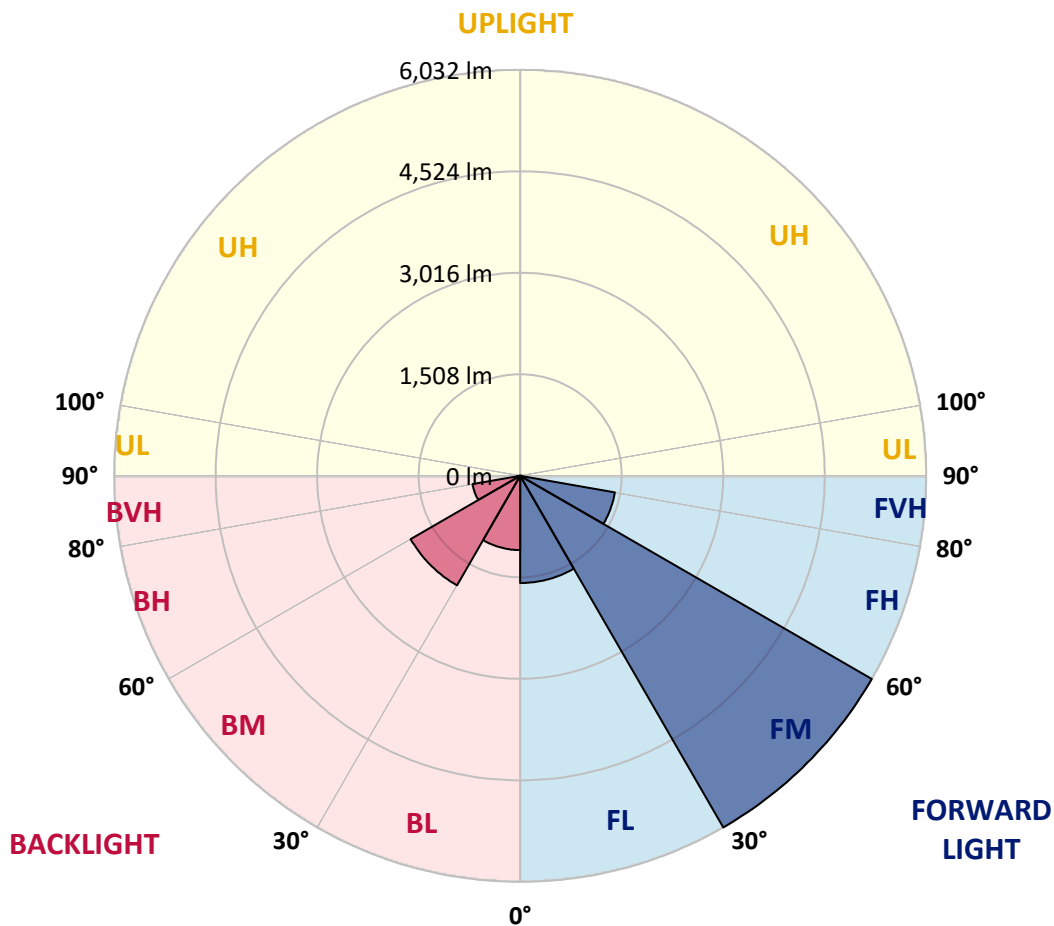
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.2	12.4			
FM (30°-60°)	6032.2	47.0			
FH (60°-80°)	1429.1	11.1			G1/1800
FVH (80°-90°)	27.2	0.2			G1/100
BL (0°-30°)	1103.8	8.6	B3/2500		
BM (30°-60°)	1879.3	14.7	B2/2500		
BH (60°-80°)	718.8	5.6	B2/1000		G2/1000
BVH (80°-90°)	40.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4190.0	4153.8	4175.2	4167.0	4234.5	4254.2	4244.3	4252.6	4290.4	4272.3	4234.5
5°	3915.3	3966.3	3976.2	4000.9	4040.3	4117.7	4178.5	4195.0	4213.1	4297.0	4288.7
7.5°	3665.3	3699.8	3681.7	3754.1	3839.6	3964.7	4038.7	4051.9	4218.0	4264.1	4298.6
10°	3507.3	3472.8	3555.0	3574.8	3671.8	3815.0	3903.8	3958.1	4109.4	4292.0	4313.4
12.5°	3360.9	3349.4	3398.8	3454.7	3563.3	3711.3	3801.8	3823.2	4056.8	4249.3	4349.6
15°	3252.3	3239.2	3288.5	3329.7	3456.3	3587.9	3703.1	3764.0	3999.2	4224.6	4318.4
17.5°	3166.8	3165.2	3193.1	3267.1	3397.1	3507.3	3693.2	3696.5	3969.6	4262.4	4344.7
20°	3161.9	3160.2	3165.2	3247.4	3365.9	3500.7	3662.0	3691.6	3969.6	4236.1	4346.3
22.5°	3203.0	3176.7	3206.3	3258.9	3344.5	3512.3	3673.5	3739.3	4065.0	4366.1	4420.4
25°	3268.8	3275.4	3291.8	3309.9	3359.3	3538.6	3775.5	3829.8	4176.9	4477.9	4522.3
27.5°	3388.9	3385.6	3392.2	3402.0	3444.8	3563.3	3816.6	3956.4	4410.5	4677.0	4632.6
30°	3564.9	3553.4	3579.7	3614.3	3574.8	3642.2	3953.1	4058.4	4627.6	4877.7	4756.0
32.5°	3724.5	3767.3	3816.6	3831.4	3783.7	3796.9	4134.1	4241.0	4808.6	5124.5	4907.3
35°	3923.5	3958.1	4023.9	4070.0	4061.7	4022.2	4380.9	4522.3	5070.2	5305.4	5066.9
37.5°	4117.7	4158.8	4267.4	4403.9	4328.2	4310.1	4644.1	4760.9	5150.8	5402.5	5183.7
40°	4430.2	4428.6	4616.1	4686.9	4754.3	4723.1	4917.2	4956.7	5193.5	5381.1	5187.0
42.5°	4797.1	4774.0	4964.9	5075.1	5162.3	5165.6	5201.8	5188.6	5213.3	5272.5	5152.4
45°	5145.8	5195.2	5387.7	5585.1	5672.3	5682.1	5442.0	5417.3	5247.8	5241.3	5086.6
47.5°	5571.9	5583.4	5741.4	6001.3	6203.6	6134.5	5752.9	5698.6	5399.2	5450.2	5196.8
50°	5596.6	5682.1	5823.6	6129.6	6751.4	6733.3	6155.9	6053.9	5642.7	5746.3	5504.5
52.5°	5080.0	5060.3	5228.1	5728.2	6710.3	7328.9	6823.8	6580.4	6165.8	6086.8	6002.9
55°	3870.9	3917.0	4065.0	4570.1	5826.9	7337.1	7733.6	7534.5	6725.1	6590.2	6493.2
56°	3395.5	3402.0	3541.9	4002.5	5316.9	7075.5	7906.3	7745.1	7003.1	6797.5	6649.4
57.5°	2814.7	2776.9	2849.3	3101.0	4487.8	6522.8	7717.1	7875.0	7328.9	7021.2	6815.6
60°	2215.9	2207.7	2178.1	2224.2	2836.1	4913.9	6424.1	6779.4	7296.0	6810.7	6527.7
62.5°	1809.6	1768.5	1827.7	1893.5	1970.8	3048.3	4514.1	4723.1	5792.4	5437.0	4904.0
65°	1403.3	1383.5	1457.5	1671.4	1717.5	1936.3	2571.3	2732.5	3420.1	3359.3	2957.9
67.5°	965.7	969.0	1033.1	1358.8	1592.4	1572.7	1574.4	1658.2	1784.9	1325.9	1154.9
70°	612.0	610.3	644.9	875.2	1281.5	1294.7	1228.9	1204.2	1141.7	690.9	732.1
72.5°	393.2	381.7	399.8	483.7	663.0	766.6	789.6	804.4	661.3	542.9	588.9
75°	222.1	210.6	204.0	225.4	261.6	302.7	332.3	342.2	383.3	411.3	435.9
77.5°	67.4	60.9	74.0	98.7	130.0	174.4	212.2	218.8	258.3	291.2	315.9
80°	29.6	32.9	46.1	65.8	92.1	123.4	149.7	159.6	185.9	210.6	217.2
82.5°	18.1	19.7	31.3	44.4	64.2	87.2	106.9	110.2	136.5	156.3	161.2
85°	6.6	8.2	16.5	26.3	41.1	55.9	55.9	60.9	55.9	55.9	60.9
87.5°	0.0	0.0	1.6	3.3	3.3	4.9	6.6	6.6	8.2	9.9	11.5
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°	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7	4242.7
2.5°	4254.2	4246.0	4232.8	4185.1	4180.2	4165.4	4083.1	4070.0	4083.1	4043.6	4046.9
5°	4246.0	4270.7	4171.9	4124.2	4035.4	3971.2	3897.2	3859.4	3791.9	3749.2	3796.9
7.5°	4282.2	4272.3	4148.9	4045.3	3912.0	3749.2	3619.2	3545.2	3426.7	3393.8	3418.5
10°	4269.0	4216.4	4071.6	3935.1	3683.4	3540.2	3329.7	3125.7	3013.8	2956.2	2948.0
12.5°	4250.9	4236.1	3994.3	3759.0	3494.2	3193.1	2897.0	2704.5	2521.9	2443.0	2454.5
15°	4272.3	4147.3	3849.5	3551.7	3199.7	2804.9	2485.7	2237.3	2110.6	2059.7	2059.7
17.5°	4262.4	4104.5	3780.4	3319.8	2874.0	2406.8	2056.4	1906.7	1854.0	1854.0	1868.8
20°	4267.4	4132.5	3640.6	3087.8	2489.0	2026.7	1771.8	1717.5	1740.5	1748.7	1757.0
22.5°	4295.3	4040.3	3504.0	2832.8	2132.0	1733.9	1608.9	1610.5	1651.7	1696.1	1687.9
25°	4329.9	4004.1	3337.9	2579.5	1859.0	1590.8	1551.3	1546.4	1577.6	1600.7	1604.0
27.5°	4300.3	3941.6	3168.4	2263.6	1635.2	1495.4	1487.2	1490.5	1500.3	1546.4	1531.6
30°	4397.3	3959.7	2956.2	1998.8	1511.8	1464.1	1454.3	1449.3	1464.1	1477.3	1465.8
32.5°	4517.4	3895.6	2798.3	1743.8	1451.0	1441.1	1421.4	1414.8	1423.0	1409.8	1416.4
35°	4570.1	3884.1	2592.7	1561.2	1403.3	1395.0	1383.5	1381.9	1383.5	1372.0	1362.1
37.5°	4599.7	3938.3	2357.4	1477.3	1373.6	1381.9	1355.6	1352.3	1322.7	1329.2	1334.2
40°	4650.7	3854.4	2166.6	1396.7	1355.6	1339.1	1316.1	1311.1	1291.4	1279.9	1291.4
42.5°	4576.6	3829.8	1979.0	1362.1	1329.2	1311.1	1294.7	1266.7	1260.1	1250.3	1243.7
45°	4517.4	3688.3	1811.2	1319.4	1298.0	1288.1	1256.8	1227.2	1202.6	1212.4	1197.6
47.5°	4561.8	3638.9	1645.1	1283.2	1255.2	1243.7	1212.4	1189.4	1164.7	1153.2	1149.9
50°	4739.5	3731.1	1505.3	1256.8	1219.0	1212.4	1171.3	1145.0	1122.0	1113.7	1117.0
52.5°	5163.9	3982.8	1409.8	1202.6	1184.5	1154.9	1131.8	1098.9	1084.1	1057.8	1074.2
55°	5701.9	4392.4	1385.2	1151.6	1141.7	1115.4	1084.1	1059.4	1031.5	1010.1	1005.1
56°	5874.6	4588.2	1365.4	1131.8	1115.4	1100.6	1059.4	1044.6	1000.2	995.3	992.0
57.5°	6014.4	4760.9	1368.7	1094.0	1077.5	1064.4	1039.7	1003.5	973.9	955.8	964.0
60°	5698.6	4456.5	1306.2	1036.4	1033.1	1008.4	973.9	957.4	921.2	899.9	894.9
62.5°	4236.1	3025.3	1059.4	962.4	960.7	934.4	894.9	876.8	870.3	840.6	840.6
65°	2439.7	1896.8	916.3	901.5	888.3	862.0	822.5	807.7	791.3	781.4	773.2
67.5°	1041.3	983.8	832.4	830.8	816.0	783.1	743.6	720.5	699.2	679.4	689.3
70°	755.1	766.6	751.8	743.6	725.5	684.4	649.8	621.8	588.9	575.8	585.7
72.5°	598.8	623.5	644.9	646.5	625.1	577.4	539.6	501.8	465.6	447.5	455.7
75°	454.0	470.5	491.9	496.8	465.6	432.7	396.5	357.0	329.0	307.6	310.9
77.5°	327.4	324.1	343.8	340.5	325.7	302.7	269.8	233.6	202.3	182.6	184.2
80°	223.7	228.7	240.2	238.5	220.4	205.6	181.0	151.3	128.3	111.9	108.6
82.5°	156.3	164.5	174.4	166.2	151.3	136.5	118.4	97.1	79.0	65.8	62.5
85°	55.9	64.2	74.0	79.0	83.9	80.6	67.4	54.3	39.5	32.9	31.3
87.5°	11.5	13.2	14.8	14.8	14.8	13.2	11.5	11.5	9.9	4.9	4.9
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)