

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: P652268

Luminaire Tested: **GALN-SA3B-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652268
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-SA3B-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 800mA 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: 12890.8 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

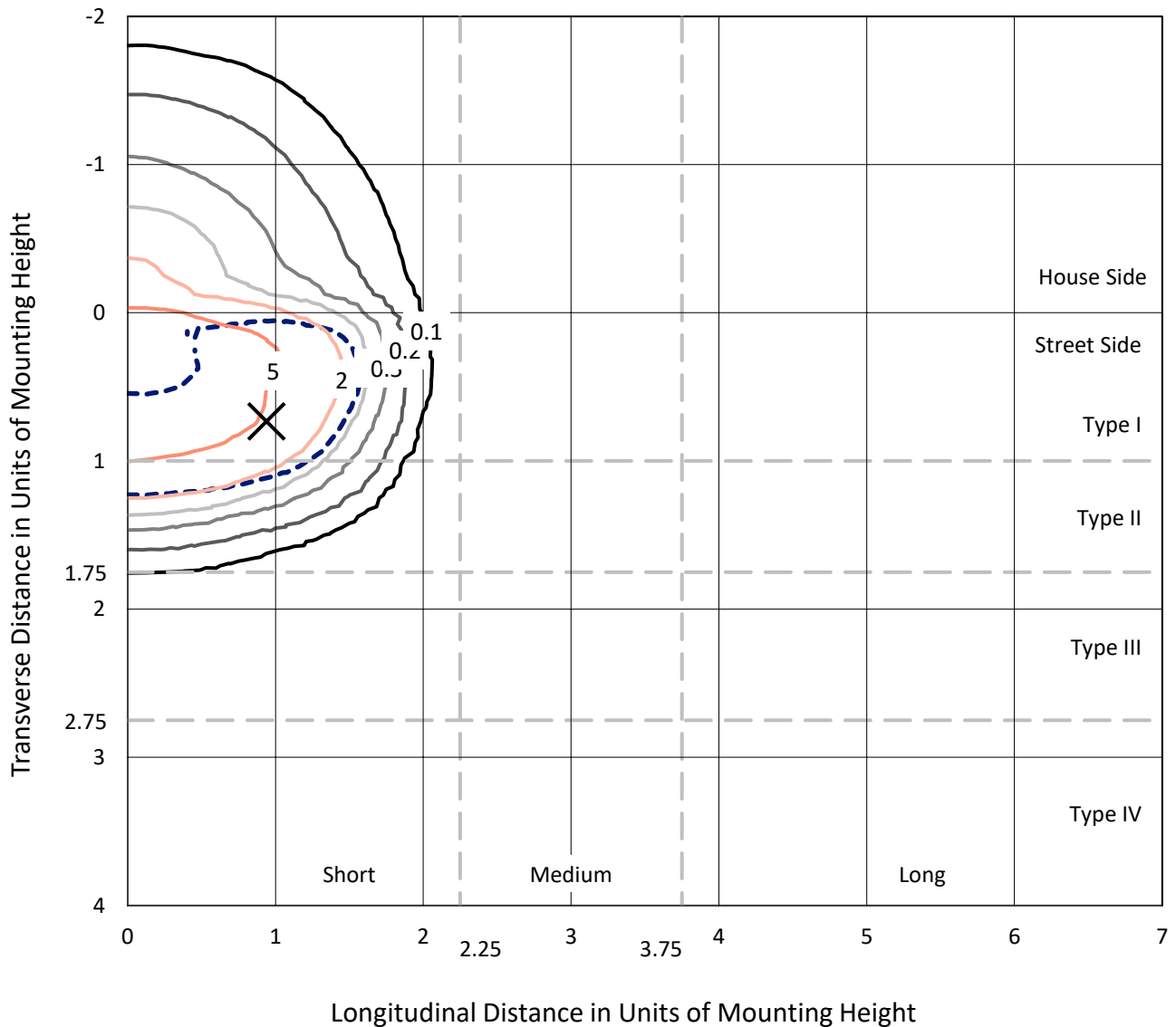
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

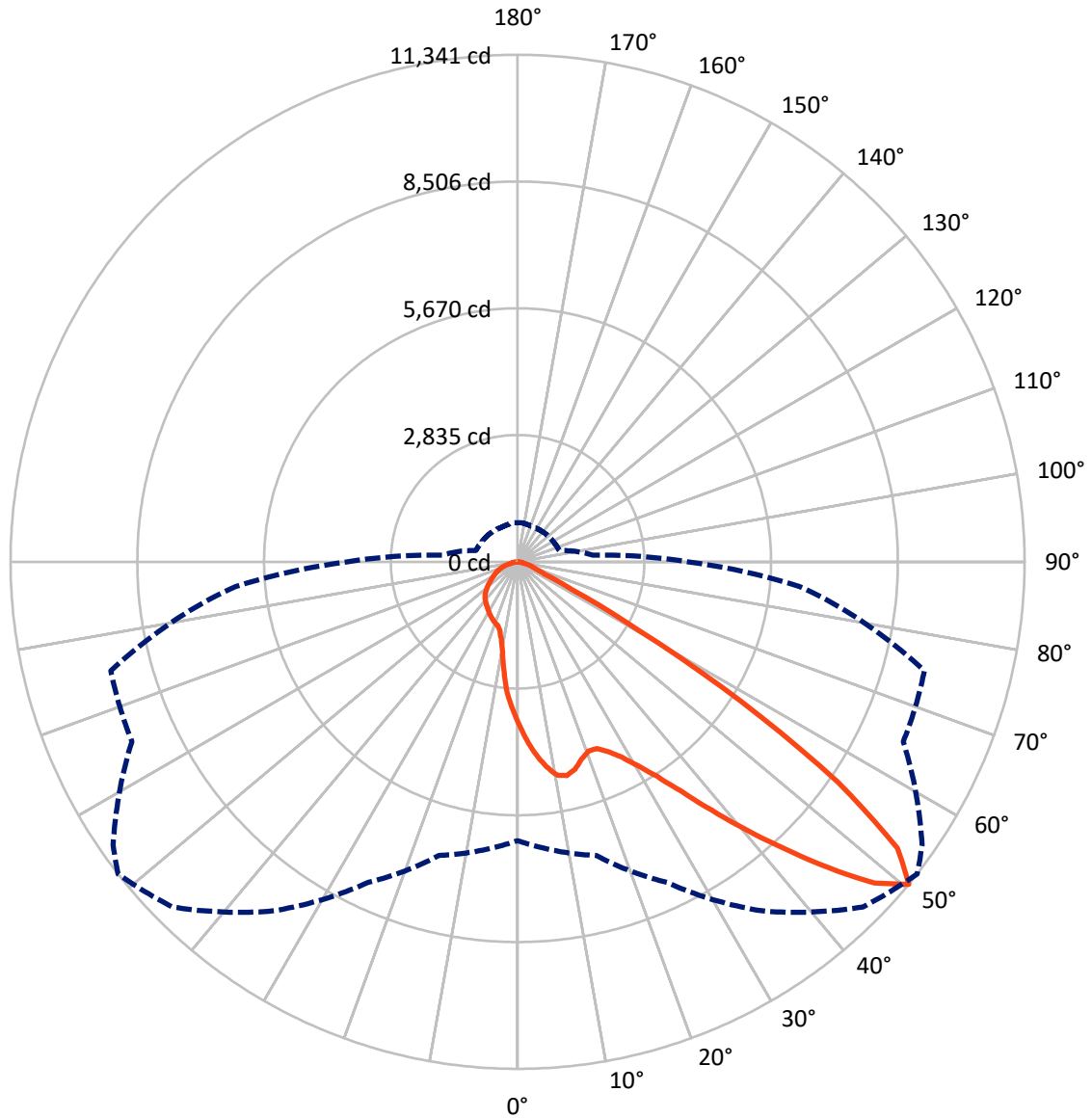
✕ Max cd
 - - - 1/2 Max cd



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	2423.2	0.0	2423.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	10467.7	0.0	10467.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	12890.8	0.0	12890.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	2.6
10°-20°	897.7	7.0
20°-30°	1512.1	11.7
30°-40°	2537.4	19.7
40°-50°	3881.6	30.1
50°-60°	2830.0	22.0
60°-70°	629.8	4.9
70°-80°	227.2	1.8
80°-90°	40.2	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°	12890.8	100.0
0°-180°	12890.8	100.0

Coefficient of Utilization

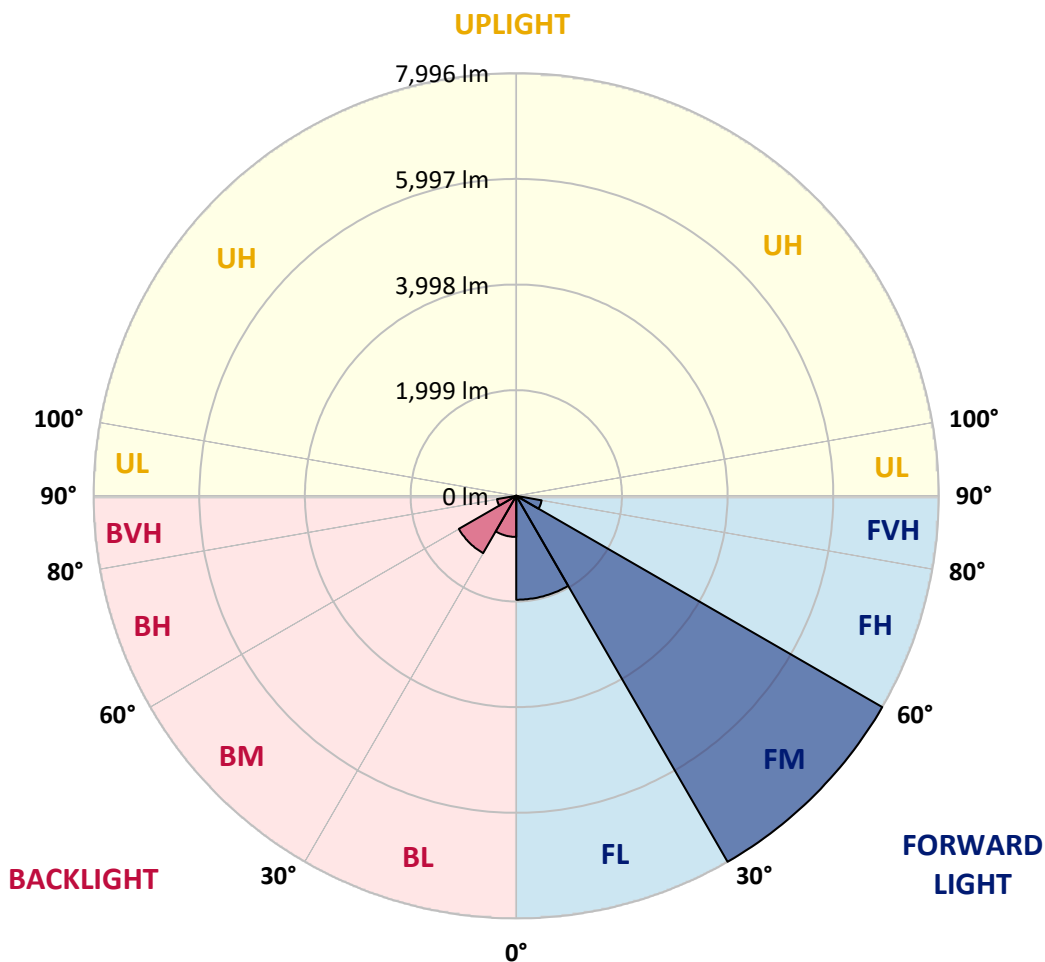


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.3	15.3			
FM (30°-60°)	7995.6	62.0			
FH (60°-80°)	487.8	3.8			G0/660
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	778.4	6.0	B2/1000		
BM (30°-60°)	1253.4	9.7	B2/2500		
BH (60°-80°)	369.2	2.9	B1/500		G1/500
BVH (80°-90°)	22.2	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°	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7
2.5°	4278.4	4196.1	4205.4	4146.4	4082.7	4064.0	3998.8	3936.6	3890.0	3790.6	3699.0
5°	4676.1	4651.3	4614.0	4567.4	4519.2	4401.1	4334.3	4256.7	4085.8	3932.0	3779.8
7.5°	4733.7	4728.9	4749.1	4749.1	4766.3	4721.2	4626.4	4572.0	4390.3	4140.2	3857.4
10°	4329.7	4343.7	4441.6	4569.0	4746.0	4868.8	4853.2	4839.3	4640.4	4298.6	3949.1
12.5°	4008.1	3977.1	4034.5	4143.3	4408.9	4705.6	4906.1	4907.7	4856.4	4551.8	4015.9
15°	3826.4	3848.1	3863.6	3914.9	4115.3	4458.6	4811.3	4915.4	5140.6	4730.5	4121.5
17.5°	3942.9	3869.9	3866.7	3879.2	3981.7	4239.6	4635.8	4814.4	5296.0	4960.5	4252.0
20°	4095.1	4093.6	4050.1	4034.5	4033.0	4262.9	4520.8	4763.2	5378.4	5258.7	4384.0
22.5°	4362.4	4362.4	4290.9	4256.7	4183.6	4371.7	4536.4	4701.0	5515.0	5463.8	4447.8
25°	4809.8	4736.8	4614.0	4530.1	4488.2	4554.9	4701.0	4848.6	5634.7	5681.3	4579.8
27.5°	5222.9	5108.0	5047.4	4902.9	4847.0	4808.2	4941.8	5090.9	5774.5	6020.0	4651.3
30°	5692.1	5672.0	5563.2	5376.8	5238.5	5167.0	5289.8	5437.4	6030.8	6366.4	4816.0
32.5°	6531.0	6347.7	6200.2	5971.8	5746.6	5594.2	5715.4	5813.3	6456.5	6728.3	4996.1
35°	7436.8	7377.8	7122.9	6711.3	6366.4	6229.7	6301.1	6374.2	6952.0	7281.4	5299.1
37.5°	8326.9	8246.2	8036.4	7690.0	7270.5	6992.5	7043.7	7129.2	7508.2	8027.1	5668.8
40°	8967.0	8867.6	8762.0	8710.7	8294.3	7913.7	7884.2	7905.9	8260.1	8726.2	6079.0
42.5°	9013.6	9136.4	9168.9	9375.6	9277.7	8965.5	8783.7	8788.4	8977.8	9417.5	6493.8
45°	8915.7	8802.3	9043.1	9607.1	9930.2	10076.2	9770.1	9731.4	9422.1	9818.3	6700.4
47.5°	7888.8	7919.9	8326.9	9218.7	10152.4	10804.8	10733.3	10604.4	9659.9	9804.4	6667.8
50°	6235.8	6423.9	6801.3	7912.1	9531.0	10919.8	11340.8	11042.5	9518.5	9419.1	6335.3
52.5°	4152.6	4230.3	4478.8	5912.7	7663.6	9760.8	10641.7	10710.1	9388.0	8914.2	5914.3
55°	1848.7	1842.5	2192.1	3088.4	4808.2	7427.5	8695.1	9111.5	8886.2	8400.0	5504.2
57.5°	783.0	809.4	952.3	1334.5	2364.5	4481.9	5891.0	6256.1	6834.0	6897.7	4222.5
60°	529.7	532.9	571.7	668.0	989.6	2105.0	3090.0	3528.1	3941.3	3913.3	2240.2
62.5°	416.4	427.2	456.7	495.6	587.3	955.5	1382.6	1626.6	1653.0	1390.4	849.7
65°	355.7	357.3	386.9	419.5	459.9	556.2	666.5	678.9	686.7	661.8	624.5
67.5°	293.6	296.7	320.0	357.3	394.6	425.6	456.7	472.3	508.0	577.9	568.6
70°	233.0	237.7	257.9	289.0	323.1	341.8	380.6	394.6	427.2	481.6	503.3
72.5°	177.1	178.6	195.8	217.5	248.6	267.2	299.8	315.4	337.2	383.7	403.9
75°	127.4	132.0	144.5	155.3	160.0	172.4	203.5	220.6	251.7	271.9	273.4
77.5°	66.8	69.9	73.0	73.0	88.6	111.9	132.0	141.4	163.2	178.6	170.9
80°	26.4	28.0	35.7	48.2	62.1	80.8	94.8	99.4	118.1	127.4	132.0
82.5°	15.6	17.1	23.3	34.1	45.1	57.4	68.4	73.0	85.4	96.3	99.4
85°	7.7	9.3	14.0	21.8	29.5	35.7	34.1	32.6	32.6	31.0	32.6
87.5°	3.1	3.1	4.6	4.6	4.6	6.2	7.7	7.7	7.7	9.3	9.3
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°	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7	3633.7
2.5°	3638.4	3576.3	3518.7	3413.1	3298.1	3265.5	3131.9	3083.8	3049.6	3009.2	2996.7
5°	3657.0	3574.7	3389.8	3177.0	3007.7	2790.2	2647.2	2493.4	2381.5	2353.6	2345.8
7.5°	3695.9	3554.5	3236.0	2914.4	2568.0	2272.8	2047.6	1926.4	1819.2	1812.9	1802.1
10°	3739.3	3493.9	3068.2	2563.4	2120.6	1847.2	1712.0	1659.2	1632.8	1626.6	1623.5
12.5°	3775.1	3481.5	2880.3	2221.6	1803.7	1638.9	1598.6	1593.9	1604.8	1607.9	1614.1
15°	3790.6	3431.8	2653.4	1915.5	1606.4	1545.8	1562.8	1581.5	1589.2	1609.4	1593.9
17.5°	3820.2	3368.0	2373.8	1673.2	1496.1	1506.9	1536.4	1558.2	1570.7	1584.6	1564.4
20°	3835.7	3310.6	2111.2	1528.7	1457.2	1477.4	1517.8	1534.9	1550.5	1556.6	1533.3
22.5°	3821.7	3192.5	1879.8	1412.1	1419.9	1446.4	1482.1	1500.7	1491.4	1466.5	1452.6
25°	3784.4	3026.3	1638.9	1337.6	1367.1	1413.7	1441.6	1427.7	1410.6	1396.6	1391.9
27.5°	3782.8	2822.7	1465.0	1269.2	1322.1	1385.7	1376.5	1364.0	1371.8	1360.9	1348.5
30°	3790.6	2625.4	1322.1	1230.4	1289.4	1320.5	1331.4	1318.9	1328.3	1308.1	1314.3
32.5°	3750.3	2432.8	1228.9	1185.3	1250.6	1249.1	1284.8	1294.1	1272.3	1230.4	1236.6
35°	3767.3	2277.5	1149.6	1165.1	1207.1	1207.1	1235.1	1224.2	1166.7	1141.8	1148.0
37.5°	3885.4	2125.2	1110.8	1137.2	1165.1	1177.6	1168.2	1121.6	1107.7	1107.7	1110.8
40°	3997.3	1994.8	1087.5	1131.0	1126.4	1134.1	1065.7	1070.4	1070.4	1071.9	1064.2
42.5°	4096.7	1906.2	1068.8	1093.7	1101.5	1061.1	1019.1	1014.5	1025.3	1023.7	1017.5
45°	4132.4	1833.2	1042.4	1051.8	1058.0	991.1	970.9	961.6	974.0	978.8	985.0
47.5°	3995.7	1772.6	1012.9	994.2	981.9	938.3	911.9	894.8	910.4	936.8	943.0
50°	3820.2	1693.4	966.3	930.6	904.2	885.5	866.9	849.7	860.7	879.3	874.6
52.5°	3560.7	1569.1	907.3	870.0	824.9	829.6	812.5	803.2	809.4	809.4	804.8
55°	3190.9	1289.4	807.9	781.5	744.1	756.6	759.7	747.2	734.8	745.7	736.4
57.5°	2178.0	910.4	720.8	720.8	683.6	700.6	699.1	669.6	640.1	643.2	637.0
60°	1259.9	725.5	664.9	658.7	619.9	633.9	637.0	616.8	571.7	574.8	568.6
62.5°	716.2	619.9	581.0	571.7	564.0	576.3	576.3	549.9	511.1	514.2	508.0
65°	609.0	574.8	518.9	517.3	514.2	517.3	504.9	476.9	442.8	428.7	430.3
67.5°	553.0	531.3	476.9	463.0	453.6	452.0	428.7	402.3	386.9	374.4	372.8
70°	484.7	467.6	427.2	408.6	399.2	377.5	354.2	337.2	315.4	309.2	315.4
72.5°	383.7	382.2	366.7	346.4	326.2	309.2	289.0	265.7	245.5	240.8	229.9
75°	265.7	268.8	271.9	268.8	251.7	229.9	206.6	188.0	163.2	149.1	146.0
77.5°	174.0	178.6	183.3	177.1	166.3	146.0	130.5	107.2	88.6	77.7	76.1
80°	127.4	133.6	136.7	132.0	119.6	104.1	87.0	68.4	54.4	45.1	45.1
82.5°	97.9	104.1	107.2	99.4	87.0	74.6	62.1	48.2	37.3	29.5	28.0
85°	34.1	32.6	38.9	40.4	48.2	45.1	37.3	28.0	21.8	15.6	14.0
87.5°	9.3	9.3	10.8	10.8	9.3	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)