

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: P454979

Luminaire Tested: **GALN-SA6A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20130 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

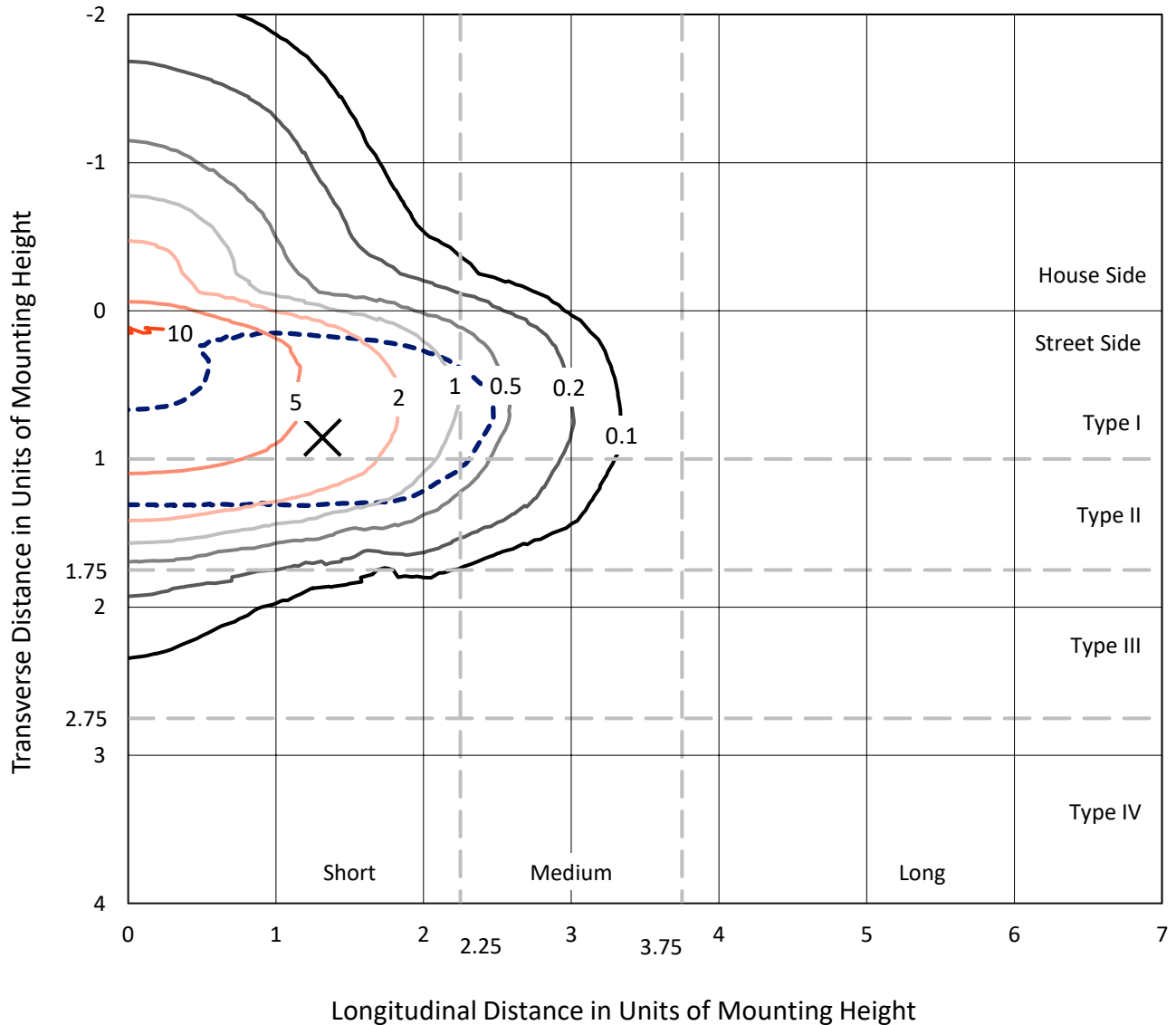
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

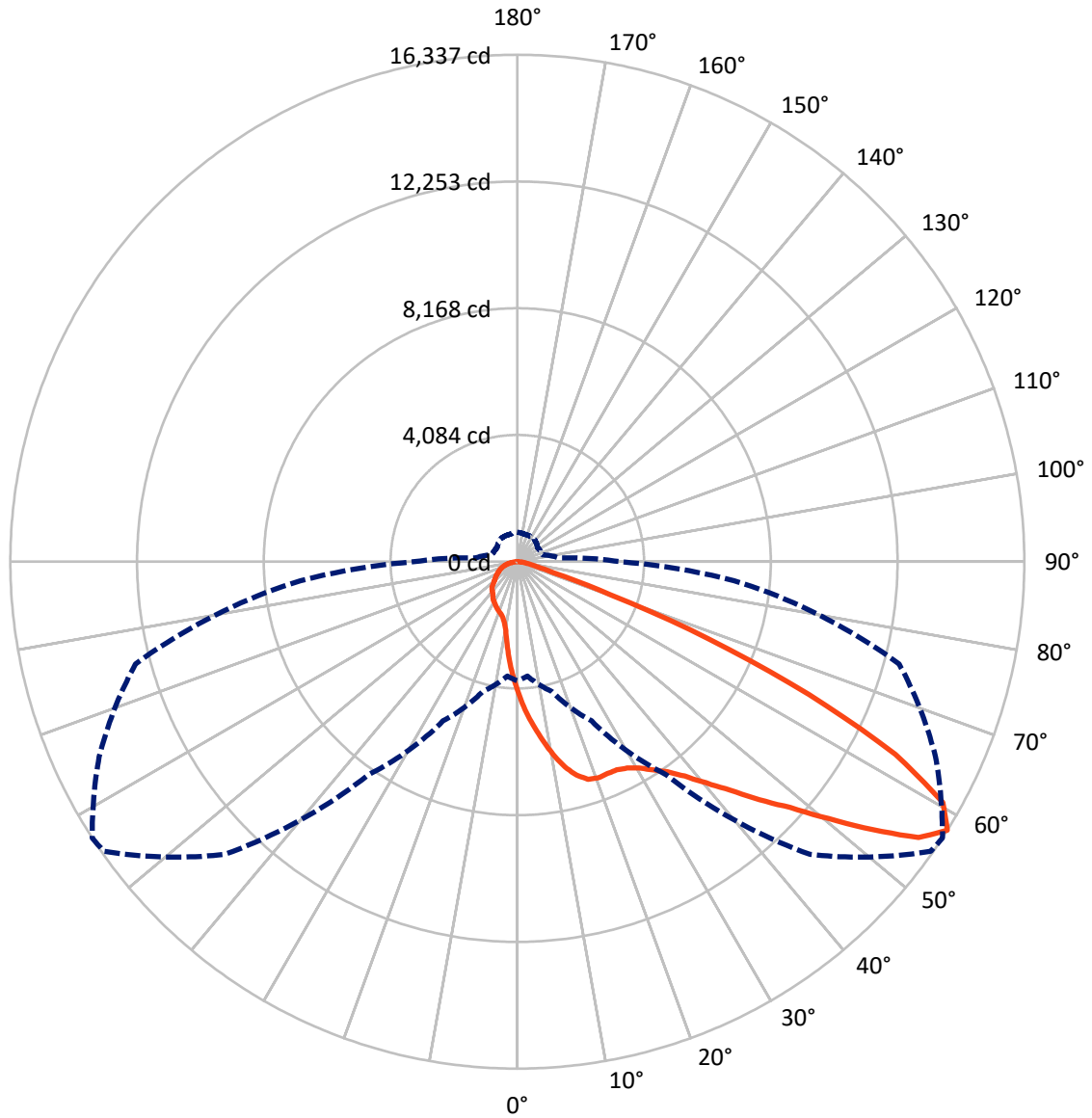
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3061.2	0.0	3061.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	17068.8	0.0	17068.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	20130.0	0.0	20130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.5	2.0
10°-20°	1197.9	6.0
20°-30°	1989.0	9.9
30°-40°	2996.1	14.9
40°-50°	4498.3	22.3
50°-60°	5042.1	25.0
60°-70°	2950.9	14.7
70°-80°	872.8	4.3
80°-90°	176.4	0.9
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°	20130.0	100.0
0°-180°	20130.0	100.0

Coefficient of Utilization



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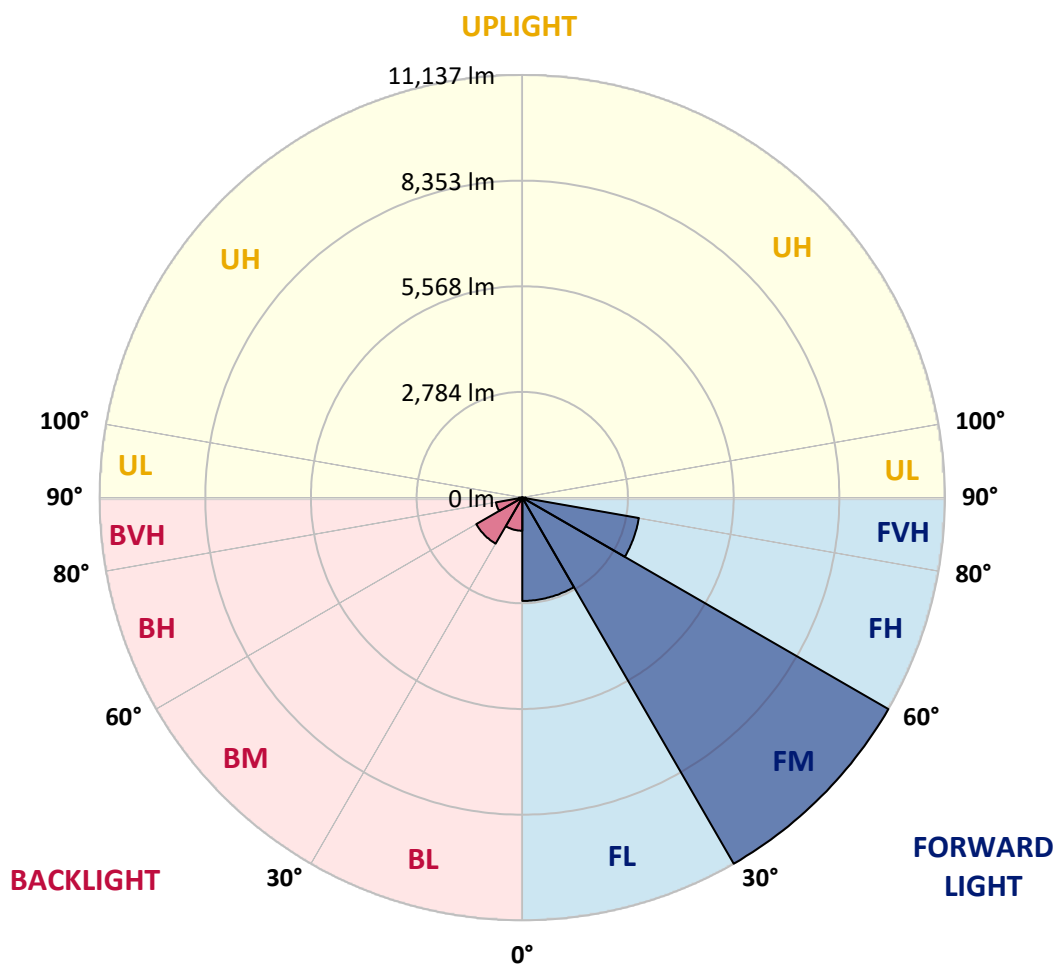
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2721.1	13.5			
FM	(30°-60°)	11136.8	55.3			
FH	(60°-80°)	3119.3	15.5			G2/5000
FVH	(80°-90°)	91.5	0.5			G1/100
BL	(0°-30°)	872.2	4.3	B2/1000		
BM	(30°-60°)	1399.7	7.0	B2/2500		
BH	(60°-80°)	704.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	84.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1
2.5°	5254.9	5197.7	5152.5	5112.8	5061.0	4921.1	4781.1	4778.9	4667.6	4495.7	4319.4
5°	6111.1	6034.0	6043.9	5920.5	5797.1	5594.3	5297.9	5282.5	5045.6	4723.8	4396.6
7.5°	6668.7	6669.8	6638.9	6568.4	6435.1	6204.8	5868.7	5792.7	5463.2	4975.1	4484.7
10°	6640.0	6669.8	6721.6	6782.2	6822.9	6709.5	6403.1	6310.6	5881.9	5279.2	4582.8
12.5°	6258.8	6305.1	6378.9	6530.9	6776.7	6964.0	6859.3	6784.4	6366.8	5582.2	4690.8
15°	6020.8	6048.3	6089.1	6191.6	6456.0	6904.5	7175.6	7135.9	6824.1	5924.9	4812.0
17.5°	5948.0	5975.6	5988.8	6051.6	6240.0	6699.5	7300.1	7370.6	7229.5	6240.0	4934.3
20°	6020.8	6034.0	6034.0	6071.5	6219.1	6579.4	7294.6	7436.7	7562.3	6618.0	5048.9
22.5°	6211.4	6216.9	6209.2	6222.4	6332.6	6612.5	7242.8	7419.1	7831.2	6938.6	5138.1
25°	6521.0	6529.8	6479.2	6448.3	6528.7	6757.9	7271.4	7433.4	8041.6	7245.0	5197.7
27.5°	6872.5	6883.6	6821.8	6750.2	6787.7	6937.5	7383.8	7529.3	8199.2	7546.9	5235.1
30°	7303.4	7307.8	7204.2	7118.3	7094.0	7205.3	7575.5	7711.1	8395.4	7902.8	5291.3
32.5°	7744.1	7777.2	7643.9	7522.7	7481.9	7516.0	7858.7	7989.9	8629.0	8285.2	5381.7
35°	8343.6	8349.1	8189.3	8041.6	7907.2	7951.3	8221.3	8316.0	8951.8	8727.0	5509.5
37.5°	9091.8	9142.4	8922.1	8646.6	8481.3	8417.4	8659.8	8763.4	9404.7	9269.2	5702.3
40°	9922.6	9941.3	9752.9	9581.0	9279.1	9094.0	9261.4	9373.8	9963.4	9916.0	5926.0
42.5°	10444.9	10485.7	10500.0	10482.4	10255.4	9944.6	10008.5	10061.4	10624.5	10523.1	6155.2
45°	10621.2	10681.8	10886.7	11320.9	11345.1	11038.8	10890.1	10940.7	11345.1	11135.8	6374.5
47.5°	10329.2	10432.8	10810.7	11701.0	12367.7	12390.8	11942.4	11831.1	12001.9	11643.8	6533.2
50°	9574.4	9596.4	10174.9	11464.1	12847.0	13683.4	13219.5	13012.3	12625.5	12019.5	6642.2
52.5°	8406.4	8431.7	8916.6	10363.3	12551.7	14586.9	14713.6	14343.4	13259.1	12311.5	6713.9
55°	6240.0	6386.6	6919.9	8318.2	11152.3	14502.1	15901.5	15691.0	14025.0	12542.9	6826.3
57.5°	3836.8	3702.4	4334.9	5659.3	8387.6	13336.3	16268.4	16336.7	14867.9	12736.8	7014.7
60°	1765.2	1791.7	2052.8	2918.9	5112.8	10432.8	15323.0	15754.9	15334.0	12730.2	7062.1
62.5°	1216.5	1192.3	1126.1	1281.5	2331.6	6598.2	12942.9	13674.5	14399.6	12334.6	6873.6
65°	1087.6	1063.3	935.5	892.5	1071.0	2876.0	9409.1	10332.5	12124.2	11336.3	6404.2
67.5°	1015.9	982.9	850.7	766.9	764.7	1144.9	5548.1	6659.9	8992.6	9584.3	5549.2
70°	941.0	914.6	783.4	690.9	651.2	719.5	2438.5	3192.2	5839.0	6906.7	4322.7
72.5°	866.1	835.2	717.3	618.2	566.4	538.8	934.4	1215.4	3299.1	4140.9	2650.1
75°	757.0	741.6	641.3	559.8	503.6	435.2	592.8	676.6	1577.9	1901.9	1330.0
77.5°	662.2	645.7	569.7	489.2	448.5	353.7	420.9	459.5	665.5	771.3	600.5
80°	484.8	501.4	480.4	431.9	400.0	277.7	283.2	315.1	395.6	437.5	366.9
82.5°	307.4	338.3	370.2	332.8	303.0	219.3	196.1	208.3	270.0	286.5	163.1
85°	128.9	131.1	214.9	202.7	173.0	130.0	117.9	124.5	144.3	151.0	76.0
87.5°	49.6	48.5	76.0	70.5	54.0	37.5	37.5	41.9	57.3	52.9	24.2
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°	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1	4229.1
2.5°	4243.4	4165.2	4009.8	3817.0	3675.9	3517.3	3377.3	3277.0	3239.6	3221.9	3188.9
5°	4240.1	4085.8	3764.1	3426.9	3155.8	2878.2	2643.5	2491.4	2478.2	2376.8	2366.9
7.5°	4241.2	4005.4	3493.0	2997.2	2583.9	2299.7	2105.7	2055.0	1994.4	1979.0	1986.7
10°	4244.5	3902.9	3202.1	2571.8	2171.8	1985.6	1912.9	1893.1	1895.3	1901.9	1903.0
12.5°	4248.9	3803.8	2900.2	2249.0	1940.4	1863.3	1855.6	1873.2	1892.0	1906.3	1909.6
15°	4254.4	3690.3	2606.0	1988.9	1824.7	1818.1	1843.5	1873.2	1899.7	1920.6	1923.9
17.5°	4247.8	3558.0	2359.2	1829.1	1760.8	1792.8	1834.7	1872.1	1896.4	1916.2	1918.4
20°	4232.4	3410.4	2121.2	1716.8	1721.2	1773.0	1818.1	1853.4	1879.8	1889.8	1897.5
22.5°	4172.9	3234.1	1914.0	1629.7	1673.8	1745.4	1799.4	1820.3	1790.6	1769.6	1775.2
25°	4071.5	3004.9	1721.2	1559.2	1630.8	1706.8	1761.9	1711.2	1687.0	1678.2	1682.6
27.5°	3944.8	2753.6	1575.7	1485.4	1575.7	1663.9	1648.4	1639.6	1628.6	1614.3	1617.6
30°	3808.2	2507.9	1452.3	1428.1	1516.2	1566.9	1573.5	1587.8	1575.7	1553.7	1562.5
32.5°	3681.4	2276.5	1358.6	1379.6	1474.3	1466.6	1516.2	1532.7	1476.5	1402.7	1406.0
35°	3573.5	2061.7	1288.1	1332.2	1402.7	1406.0	1455.6	1398.3	1337.7	1302.4	1304.6
37.5°	3491.9	1894.2	1241.8	1291.4	1311.3	1353.1	1326.7	1296.9	1289.2	1265.0	1266.1
40°	3443.4	1747.6	1212.1	1259.5	1256.2	1284.8	1200.0	1229.7	1240.7	1233.0	1234.1
42.5°	3394.9	1644.0	1181.2	1215.4	1214.3	1158.1	1139.4	1164.7	1193.4	1196.7	1194.5
45°	3356.4	1563.6	1149.3	1148.2	1170.2	1082.1	1076.6	1092.0	1132.8	1152.6	1151.5
47.5°	3313.4	1496.4	1100.8	1069.9	1076.6	1034.7	1025.9	1032.5	1082.1	1114.0	1122.8
50°	3259.4	1429.2	1040.2	998.3	970.8	990.6	992.8	993.9	1043.5	1079.9	1087.6
52.5°	3216.4	1378.5	970.8	939.9	906.9	950.9	967.5	969.7	999.4	1029.2	1034.7
55°	3241.8	1349.8	902.5	880.4	850.7	910.2	942.1	946.5	953.1	975.2	978.5
57.5°	3317.8	1356.4	847.4	818.7	796.7	861.7	915.7	919.0	914.6	941.0	945.4
60°	3341.0	1353.1	806.6	750.4	737.2	809.9	877.1	883.7	882.6	921.2	928.9
62.5°	3244.0	1311.3	765.8	693.1	684.3	757.0	823.1	849.6	855.1	910.2	920.1
65°	3015.9	1225.3	711.8	632.5	632.5	700.8	771.3	807.7	823.1	896.9	908.0
67.5°	2715.1	1123.9	656.7	580.7	578.5	646.8	716.2	753.7	777.9	878.2	884.8
70°	2253.4	987.3	588.4	524.5	524.5	586.2	649.0	694.2	729.5	843.0	843.0
72.5°	1543.8	820.9	505.8	460.6	461.7	519.0	582.9	633.6	675.5	772.4	774.6
75°	976.3	641.3	415.4	392.3	396.7	450.7	516.8	569.7	653.4	763.6	766.9
77.5°	519.0	450.7	330.6	325.1	330.6	380.2	454.0	526.7	655.6	662.2	651.2
80°	336.1	319.6	261.1	250.1	252.3	306.3	404.4	500.3	526.7	533.3	509.1
82.5°	182.9	202.7	185.1	174.1	174.1	239.1	344.9	397.8	378.0	314.0	299.7
85°	78.2	94.8	95.9	83.7	80.4	147.7	231.4	217.1	201.6	192.8	190.6
87.5°	22.0	30.9	30.9	23.1	17.6	40.8	46.3	13.2	0.0	1.1	2.2
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)