

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: P453268

Luminaire Tested: **GALN-SA4B-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453268
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-SA4B-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22730 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

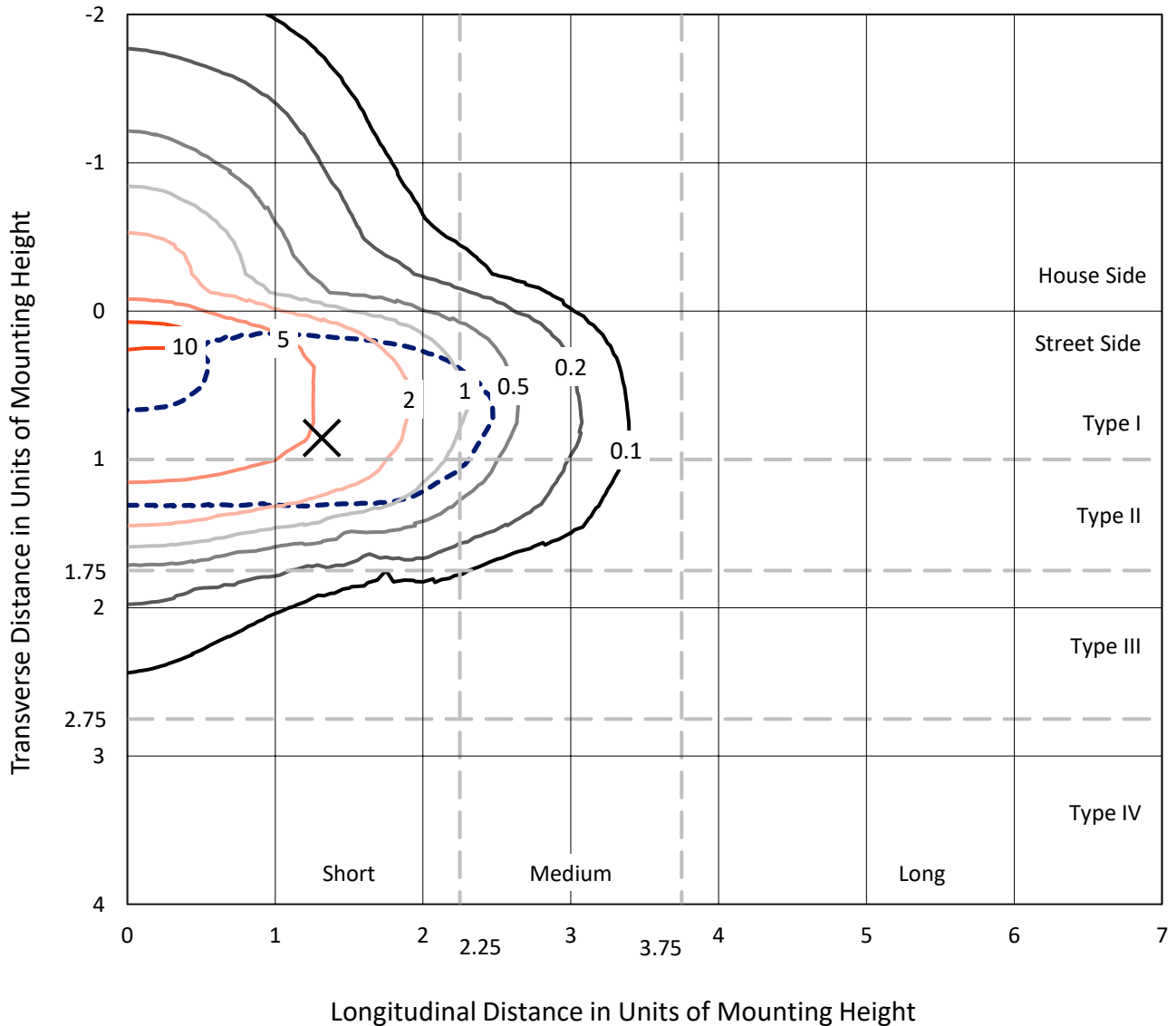
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

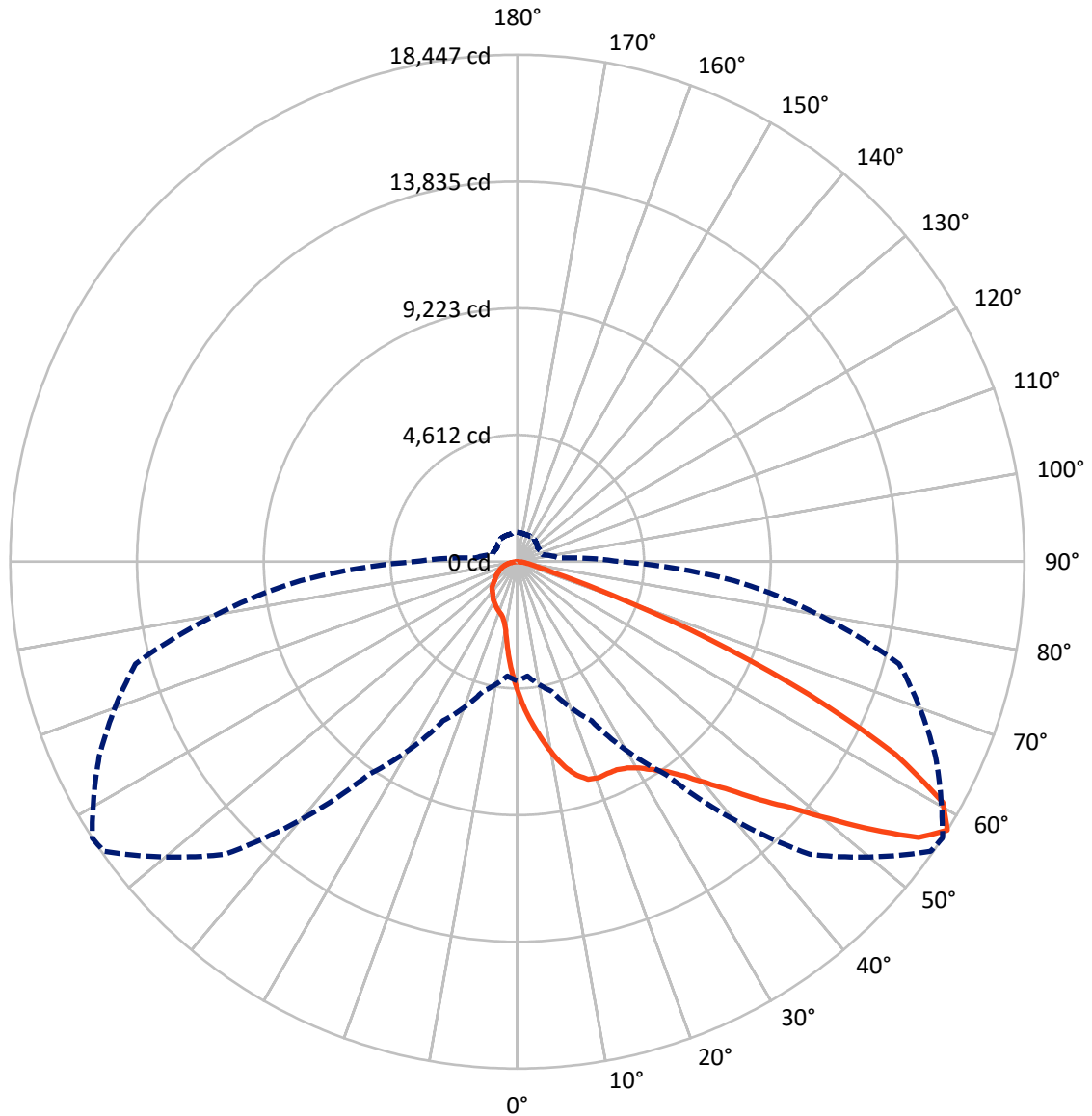
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	3456.6	0.0	3456.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	19273.4	0.0	19273.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	22730.0	0.0	22730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.0	2.0
10°-20°	1352.6	6.0
20°-30°	2246.0	9.9
30°-40°	3383.1	14.9
40°-50°	5079.3	22.3
50°-60°	5693.3	25.0
60°-70°	3332.0	14.7
70°-80°	985.6	4.3
80°-90°	199.2	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°	22730.0	100.0
0°-180°	22730.0	100.0

Coefficient of Utilization



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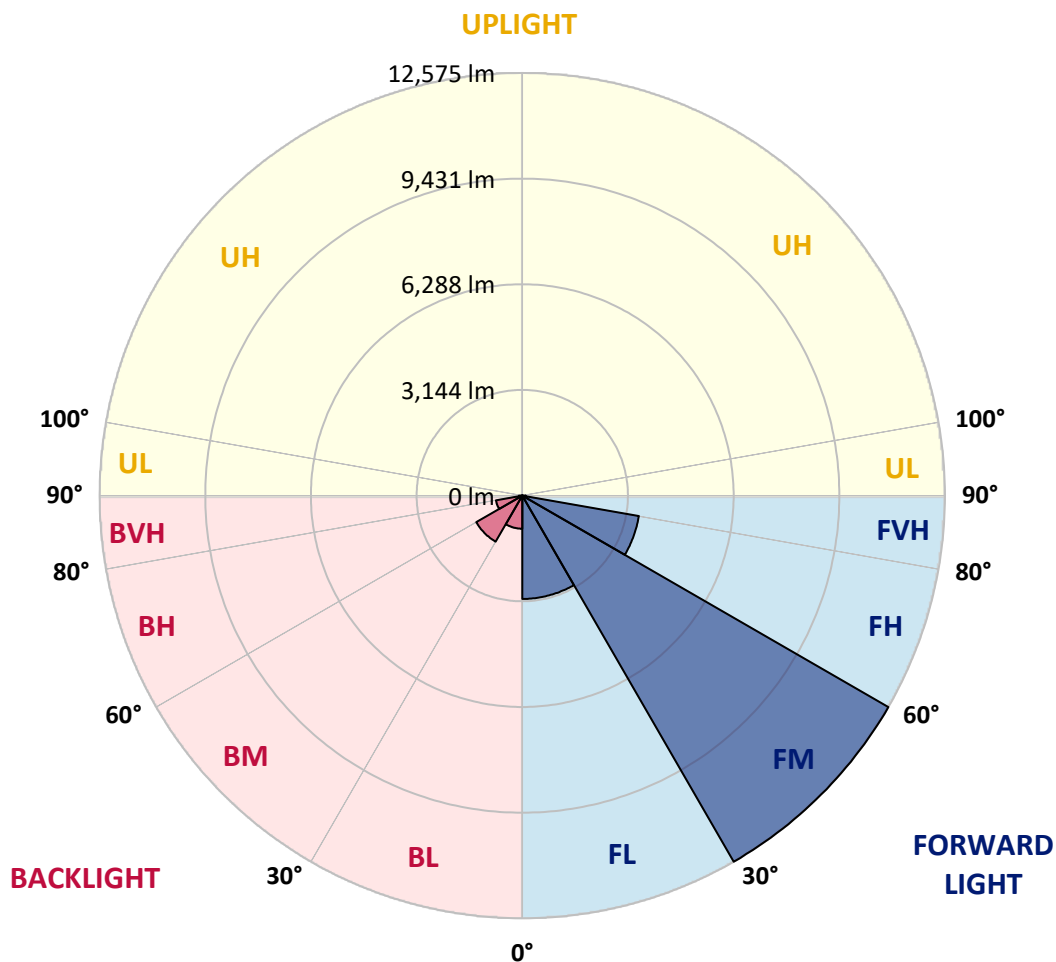
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3072.6	13.5			
FM	(30°-60°)	12575.2	55.3			
FH	(60°-80°)	3522.2	15.5			G2/5000
FVH	(80°-90°)	103.4	0.5			G2/225
BL	(0°-30°)	984.9	4.3	B2/1000		
BM	(30°-60°)	1580.5	7.0	B2/2500		
BH	(60°-80°)	795.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	95.8	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°	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3
2.5°	5933.7	5869.0	5818.0	5773.2	5714.7	5556.7	5398.7	5396.2	5270.5	5076.4	4877.3
5°	6900.4	6813.3	6824.5	6685.2	6545.8	6316.9	5982.2	5964.8	5697.3	5334.0	4964.4
7.5°	7530.0	7531.3	7496.4	7416.8	7266.2	7006.2	6626.7	6540.9	6168.8	5617.6	5064.0
10°	7497.7	7531.3	7589.7	7658.2	7704.2	7576.1	7230.2	7125.6	6641.6	5961.1	5174.7
12.5°	7067.2	7119.4	7202.8	7374.5	7651.9	7863.5	7745.3	7660.7	7189.1	6303.2	5296.6
15°	6798.4	6829.5	6875.6	6991.3	7289.9	7796.3	8102.4	8057.6	7705.4	6690.2	5433.5
17.5°	6716.3	6747.4	6762.3	6833.3	7046.0	7564.9	8243.0	8322.6	8163.3	7046.0	5571.6
20°	6798.4	6813.3	6813.3	6855.6	7022.4	7429.2	8236.7	8397.2	8539.1	7472.8	5701.0
22.5°	7013.7	7019.9	7011.2	7026.1	7150.5	7466.6	8178.3	8377.3	8842.7	7834.8	5801.8
25°	7363.3	7373.2	7316.0	7281.2	7372.0	7630.8	8210.6	8393.5	9080.3	8180.7	5869.0
27.5°	7760.2	7772.6	7703.0	7622.1	7664.4	7833.6	8337.5	8501.7	9258.2	8521.7	5911.3
30°	8246.7	8251.7	8134.7	8037.7	8010.3	8135.9	8554.0	8707.0	9479.7	8923.5	5974.7
32.5°	8744.4	8781.7	8631.1	8494.3	8448.2	8486.8	8873.8	9021.8	9743.5	9355.3	6076.8
35°	9421.2	9427.4	9247.0	9080.3	8928.5	8978.3	9283.1	9390.1	10108.0	9854.2	6221.1
37.5°	10266.1	10323.3	10074.4	9763.4	9576.8	9504.6	9778.3	9895.3	10619.4	10466.4	6438.8
40°	11204.2	11225.3	11012.6	10818.5	10477.6	10268.5	10457.7	10584.6	11250.2	11196.7	6691.4
42.5°	11794.0	11840.0	11856.2	11836.3	11579.9	11229.1	11301.2	11361.0	11996.8	11882.3	6950.2
45°	11993.0	12061.5	12292.9	12783.1	12810.5	12464.6	12296.6	12353.9	12810.5	12574.1	7197.8
47.5°	11663.3	11780.3	12207.0	13212.4	13965.1	13991.2	13484.8	13359.2	13552.0	13147.7	7377.0
50°	10811.0	10835.9	11489.1	12944.9	14506.4	15450.7	14926.9	14693.0	14256.3	13571.9	7500.2
52.5°	9492.1	9520.8	10068.2	11701.9	14172.9	16471.0	16614.1	16196.0	14971.7	13901.7	7581.0
55°	7046.0	7211.5	7813.7	9392.6	12592.7	16375.2	17955.3	17717.7	15836.4	14162.9	7707.9
57.5°	4332.4	4180.6	4894.8	6390.3	9471.0	15058.8	18369.7	18446.8	16788.2	14381.9	7920.7
60°	1993.2	2023.1	2318.0	3295.9	5773.2	11780.3	17302.1	17789.8	17314.6	14374.5	7974.2
62.5°	1373.6	1346.2	1271.6	1447.0	2632.8	7450.4	14614.6	15440.8	16259.5	13927.8	7761.4
65°	1228.0	1200.7	1056.3	1007.8	1209.4	3247.4	10624.4	11667.0	13690.1	12800.5	7231.4
67.5°	1147.2	1109.8	960.5	866.0	863.5	1292.7	6264.6	7520.1	10154.1	10822.2	6265.9
70°	1062.6	1032.7	884.6	780.1	735.3	812.5	2753.5	3604.5	6593.1	7798.8	4881.1
72.5°	978.0	943.1	810.0	698.0	639.5	608.4	1055.1	1372.4	3725.2	4675.8	2992.3
75°	854.8	837.4	724.1	632.1	568.6	491.5	669.4	764.0	1781.7	2147.5	1501.8
77.5°	747.8	729.1	643.3	552.4	506.4	399.4	475.3	518.8	751.5	871.0	678.1
80°	547.5	566.1	542.5	487.7	451.7	313.5	319.8	355.8	446.7	494.0	414.3
82.5°	347.1	382.0	418.1	375.8	342.2	247.6	221.5	235.2	304.8	323.5	184.1
85°	145.6	148.1	242.6	228.9	195.3	146.8	133.1	140.6	163.0	170.5	85.9
87.5°	56.0	54.7	85.9	79.6	61.0	42.3	42.3	47.3	64.7	59.7	27.4
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°	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3	4775.3
2.5°	4791.5	4703.1	4527.7	4310.0	4150.7	3971.5	3813.5	3700.3	3658.0	3638.1	3600.8
5°	4787.8	4613.6	4250.3	3869.5	3563.4	3249.9	2984.9	2813.2	2798.2	2683.8	2672.6
7.5°	4789.0	4522.7	3944.2	3384.3	2917.7	2596.7	2377.7	2320.5	2252.0	2234.6	2243.3
10°	4792.7	4407.0	3615.7	2904.0	2452.4	2242.1	2160.0	2137.6	2140.1	2147.5	2148.8
12.5°	4797.7	4295.0	3274.8	2539.5	2191.1	2104.0	2095.3	2115.2	2136.3	2152.5	2156.2
15°	4803.9	4166.9	2942.6	2245.8	2060.4	2053.0	2081.6	2115.2	2145.0	2168.7	2172.4
17.5°	4796.5	4017.6	2663.9	2065.4	1988.3	2024.3	2071.6	2113.9	2141.3	2163.7	2166.2
20°	4779.0	3850.9	2395.1	1938.5	1943.5	2001.9	2053.0	2092.8	2122.6	2133.8	2142.5
22.5°	4711.9	3651.8	2161.2	1840.2	1890.0	1970.8	2031.8	2055.4	2021.9	1998.2	2004.4
25°	4597.4	3393.0	1943.5	1760.6	1841.4	1927.3	1989.5	1932.3	1904.9	1894.9	1899.9
27.5°	4454.3	3109.3	1779.2	1677.2	1779.2	1878.8	1861.4	1851.4	1839.0	1822.8	1826.5
30°	4300.0	2831.8	1639.9	1612.5	1712.0	1769.3	1776.7	1792.9	1779.2	1754.3	1764.3
32.5°	4156.9	2570.6	1534.1	1557.8	1664.8	1656.1	1712.0	1730.7	1667.3	1583.9	1587.6
35°	4035.0	2327.9	1454.5	1504.3	1583.9	1587.6	1643.6	1578.9	1510.5	1470.7	1473.2
37.5°	3942.9	2138.8	1402.2	1458.2	1480.6	1527.9	1498.0	1464.4	1455.7	1428.4	1429.6
40°	3888.2	1973.3	1368.6	1422.1	1418.4	1450.8	1355.0	1388.5	1401.0	1392.3	1393.5
42.5°	3833.4	1856.4	1333.8	1372.4	1371.1	1307.7	1286.5	1315.1	1347.5	1351.2	1348.7
45°	3789.9	1765.5	1297.7	1296.5	1321.4	1221.8	1215.6	1233.0	1279.1	1301.5	1300.2
47.5°	3741.4	1689.6	1243.0	1208.1	1215.6	1168.3	1158.4	1165.8	1221.8	1257.9	1267.9
50°	3680.4	1613.8	1174.5	1127.3	1096.2	1118.6	1121.0	1122.3	1178.3	1219.3	1228.0
52.5°	3631.9	1556.5	1096.2	1061.3	1024.0	1073.8	1092.4	1094.9	1128.5	1162.1	1168.3
55°	3660.5	1524.2	1019.0	994.1	960.5	1027.7	1063.8	1068.8	1076.2	1101.1	1104.9
57.5°	3746.3	1531.6	956.8	924.5	899.6	973.0	1033.9	1037.7	1032.7	1062.6	1067.5
60°	3772.5	1527.9	910.8	847.3	832.4	914.5	990.4	997.9	996.6	1040.2	1048.9
62.5°	3663.0	1480.6	864.7	782.6	772.7	854.8	929.4	959.3	965.5	1027.7	1038.9
65°	3405.4	1383.6	803.8	714.2	714.2	791.3	871.0	912.0	929.4	1012.8	1025.2
67.5°	3065.8	1269.1	741.6	655.7	653.2	730.4	808.7	851.0	878.4	991.6	999.1
70°	2544.4	1114.8	664.4	592.2	592.2	661.9	732.8	783.9	823.7	951.8	951.8
72.5°	1743.2	926.9	571.1	520.1	521.3	586.0	658.2	715.4	762.7	872.2	874.7
75°	1102.4	724.1	469.1	442.9	447.9	508.9	583.5	643.3	737.8	862.2	866.0
77.5°	586.0	508.9	373.3	367.0	373.3	429.3	512.6	594.7	740.3	747.8	735.3
80°	379.5	360.8	294.9	282.4	284.9	345.9	456.6	564.9	594.7	602.2	574.8
82.5°	206.5	228.9	209.0	196.6	196.6	270.0	389.4	449.2	426.8	354.6	338.4
85°	88.3	107.0	108.2	94.6	90.8	166.7	261.3	245.1	227.7	217.7	215.2
87.5°	24.9	34.8	34.8	26.1	19.9	46.0	52.3	14.9	0.0	1.2	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)