

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: P452775

Luminaire Tested: **GALN-SA3D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452775
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-SA3D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21237 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

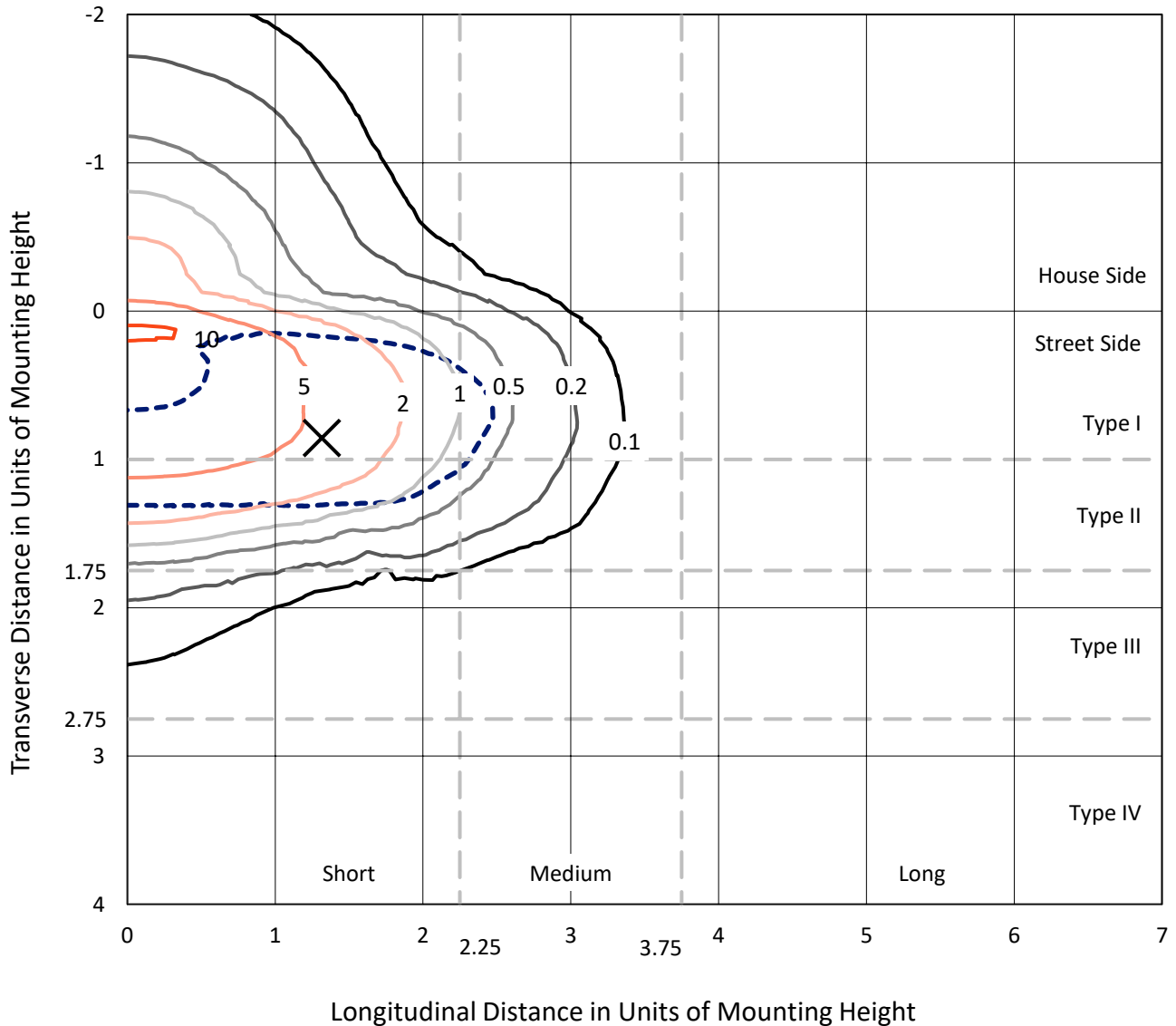
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452775
 CATALOG NUMBER: GALN-SA3D-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

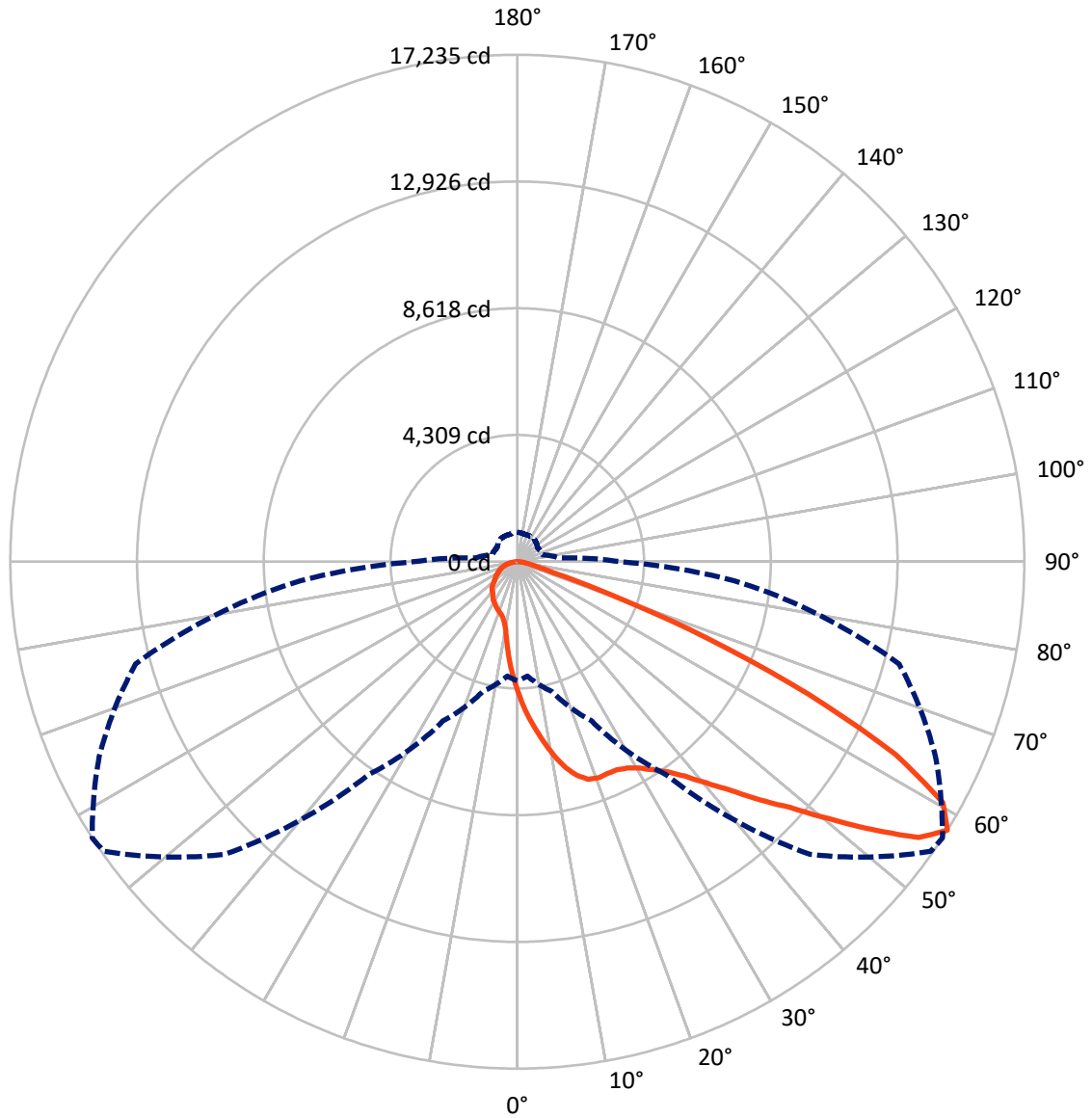
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

REPORT NUMBER: P452775
CATALOG NUMBER: GALN-SA3D-730-U-AFL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452775

CATALOG NUMBER: GALN-SA3D-730-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3229.6	0.0	3229.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	18007.5	0.0	18007.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	21237.0	0.0	21237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	2.0
10°-20°	1263.7	6.0
20°-30°	2098.4	9.9
30°-40°	3160.8	14.9
40°-50°	4745.7	22.3
50°-60°	5319.4	25.0
60°-70°	3113.1	14.7
70°-80°	920.8	4.3
80°-90°	186.1	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°	21237.0	100.0
0°-180°	21237.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452775

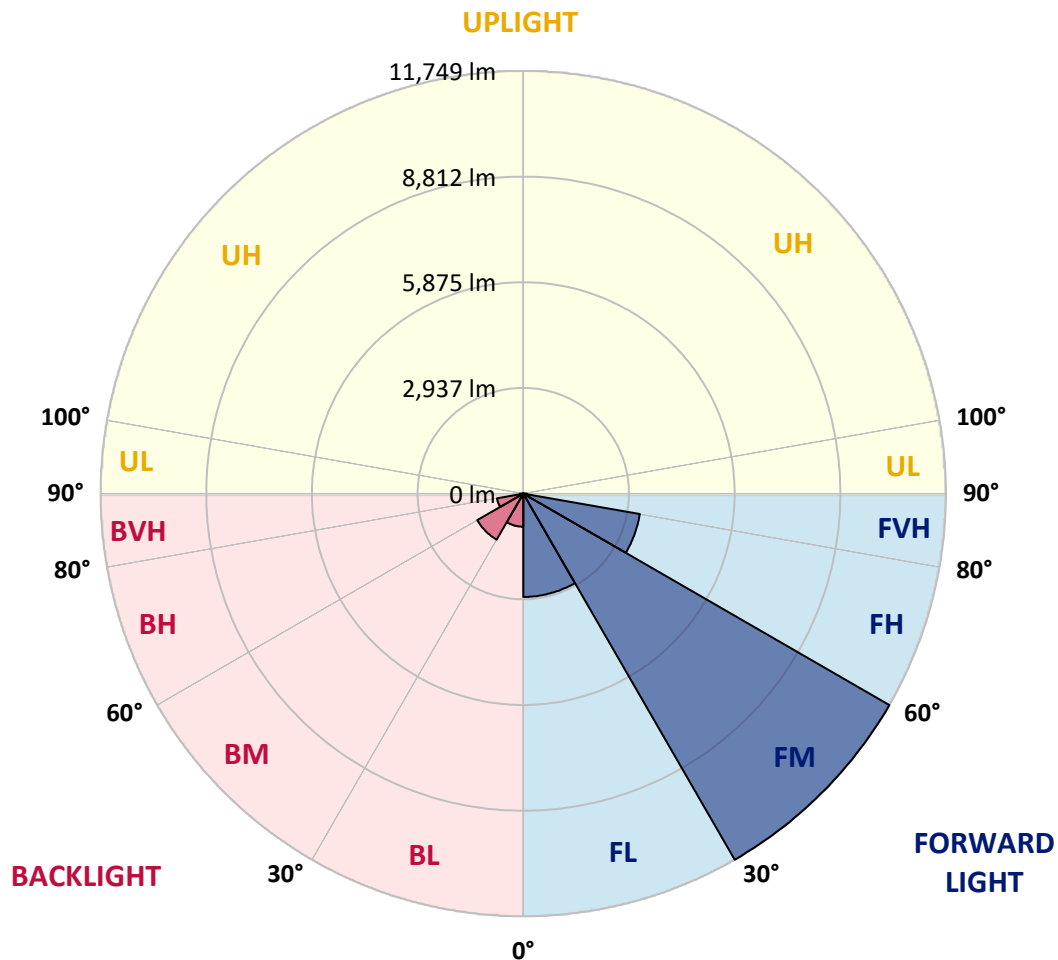
CATALOG NUMBER: GALN-SA3D-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2870.8	13.5			
FM	(30°-60°)	11749.2	55.3			
FH	(60°-80°)	3290.9	15.5			G2/5000
FVH	(80°-90°)	96.6	0.5			G1/100
BL	(0°-30°)	920.2	4.3	B2/1000		
BM	(30°-60°)	1476.7	7.0	B2/2500		
BH	(60°-80°)	743.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	89.6	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





REPORT NUMBER: P452775

CATALOG NUMBER: GALN-SA3D-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7
2.5°	5543.9	5483.5	5435.8	5394.0	5339.3	5191.7	5044.1	5041.7	4924.3	4743.0	4557.0
5°	6447.2	6365.8	6376.3	6246.1	6115.9	5902.0	5589.3	5573.0	5323.1	4983.6	4638.3
7.5°	7035.4	7036.6	7004.0	6929.6	6789.0	6546.0	6191.4	6111.2	5763.6	5248.7	4731.3
10°	7005.2	7036.6	7091.2	7155.1	7198.2	7078.4	6755.3	6657.6	6205.4	5569.5	4834.8
12.5°	6603.0	6651.8	6729.7	6890.1	7149.3	7347.0	7236.5	7157.5	6716.9	5889.2	4948.7
15°	6351.9	6380.9	6423.9	6532.1	6811.1	7284.2	7570.2	7528.3	7199.3	6250.7	5076.6
17.5°	6275.1	6304.2	6318.2	6384.4	6583.2	7068.0	7701.5	7775.9	7627.1	6583.2	5205.6
20°	6351.9	6365.8	6365.8	6405.3	6561.1	6941.2	7695.7	7845.7	7978.2	6981.9	5326.5
22.5°	6553.0	6558.8	6550.7	6564.6	6680.9	6976.1	7641.1	7827.1	8261.8	7320.2	5420.7
25°	6879.6	6888.9	6835.5	6802.9	6887.8	7129.6	7671.3	7842.2	8483.9	7643.4	5483.5
27.5°	7250.5	7262.1	7197.0	7121.4	7161.0	7319.1	7789.9	7943.3	8650.1	7961.9	5523.0
30°	7705.0	7709.7	7600.4	7509.7	7484.1	7601.5	7992.1	8135.1	8857.0	8337.4	5582.3
32.5°	8170.0	8204.9	8064.2	7936.3	7893.3	7929.4	8290.9	8429.2	9103.5	8740.8	5677.6
35°	8802.4	8808.2	8639.7	8483.9	8342.1	8388.6	8673.4	8773.3	9444.1	9206.9	5812.5
37.5°	9591.7	9645.2	9412.7	9122.1	8947.7	8880.3	9136.0	9245.3	9921.9	9778.9	6015.9
40°	10468.3	10488.0	10289.2	10107.9	9789.4	9594.1	9770.8	9889.3	10511.3	10461.3	6251.9
42.5°	11019.3	11062.3	11077.4	11058.8	10819.3	10491.5	10558.9	10614.7	11208.8	11101.8	6493.7
45°	11205.3	11269.2	11485.4	11943.5	11969.0	11645.9	11488.9	11542.4	11969.0	11748.2	6725.0
47.5°	10897.2	11006.5	11405.2	12344.5	13047.8	13072.2	12599.1	12481.7	12661.9	12284.1	6892.4
50°	10100.9	10124.2	10734.5	12094.6	13553.5	14435.8	13946.4	13727.9	13319.9	12680.5	7007.5
52.5°	8868.7	8895.4	9406.9	10933.3	13242.0	15389.1	15522.8	15132.2	13988.3	12988.5	7083.1
55°	6583.2	6737.8	7300.5	8775.7	11765.6	15299.6	16775.9	16553.9	14796.2	13232.7	7201.6
57.5°	4047.8	3906.0	4573.3	5970.6	8848.9	14069.7	17163.1	17235.1	15685.5	13437.3	7400.4
60°	1862.3	1890.2	2165.7	3079.4	5394.0	11006.5	16165.6	16621.3	16177.3	13430.3	7450.4
62.5°	1283.4	1257.8	1188.1	1352.0	2459.8	6961.0	13654.7	14426.5	15191.5	13013.0	7251.6
65°	1147.4	1121.8	987.0	941.6	1129.9	3034.1	9926.5	10900.7	12790.9	11959.7	6756.4
67.5°	1071.8	1036.9	897.4	809.1	806.8	1207.8	5853.2	7026.1	9487.1	10111.4	5854.3
70°	992.8	964.9	826.5	728.9	687.0	759.1	2572.6	3367.7	6160.1	7286.5	4560.5
72.5°	913.7	881.2	756.8	652.2	597.5	568.5	985.8	1282.2	3480.5	4368.7	2795.8
75°	798.6	782.4	676.6	590.5	531.3	459.2	625.4	713.8	1664.7	2006.5	1403.1
77.5°	698.7	681.2	601.0	516.1	473.1	373.2	444.1	484.8	702.1	813.7	633.6
80°	511.5	528.9	506.8	455.7	422.0	292.9	298.8	332.5	417.3	461.5	387.1
82.5°	324.3	356.9	390.6	351.1	319.7	231.3	206.9	219.7	284.8	302.2	172.0
85°	136.0	138.3	226.7	213.9	182.5	137.2	124.4	131.4	152.3	159.3	80.2
87.5°	52.3	51.1	80.2	74.4	57.0	39.5	39.5	44.2	60.4	55.8	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452775

CATALOG NUMBER: GALN-SA3D-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7	4461.7
2.5°	4476.8	4394.2	4230.3	4026.9	3878.1	3710.7	3563.0	3457.3	3417.7	3399.1	3364.3
5°	4473.3	4310.5	3971.1	3615.4	3329.4	3036.4	2788.8	2628.4	2614.4	2507.5	2497.0
7.5°	4474.4	4225.7	3685.1	3162.0	2726.0	2426.1	2221.5	2168.1	2104.1	2087.8	2096.0
10°	4477.9	4117.6	3378.2	2713.3	2291.3	2094.8	2018.1	1997.2	1999.5	2006.5	2007.6
12.5°	4482.6	4012.9	3059.7	2372.6	2047.2	1965.8	1957.6	1976.2	1996.0	2011.1	2014.6
15°	4488.4	3893.2	2749.3	2098.3	1925.1	1918.1	1944.9	1976.2	2004.1	2026.2	2029.7
17.5°	4481.4	3753.7	2488.9	1929.7	1857.7	1891.4	1935.6	1975.1	2000.7	2021.6	2023.9
20°	4465.1	3597.9	2237.8	1811.2	1815.8	1870.5	1918.1	1955.3	1983.2	1993.7	2001.8
22.5°	4402.4	3411.9	2019.3	1719.3	1765.8	1841.4	1898.4	1920.4	1889.1	1867.0	1872.8
25°	4295.4	3170.1	1815.8	1644.9	1720.5	1800.7	1858.8	1805.4	1779.8	1770.5	1775.1
27.5°	4161.7	2905.1	1662.4	1567.0	1662.4	1755.4	1739.1	1729.8	1718.2	1703.1	1706.5
30°	4017.6	2645.8	1532.2	1506.6	1599.6	1653.1	1660.0	1675.2	1662.4	1639.1	1648.4
32.5°	3883.9	2401.7	1433.4	1455.4	1555.4	1547.3	1599.6	1617.0	1557.7	1479.9	1483.3
35°	3770.0	2175.0	1359.0	1405.5	1479.9	1483.3	1535.7	1475.2	1411.3	1374.1	1376.4
37.5°	3683.9	1998.3	1310.1	1362.4	1383.4	1427.5	1399.6	1368.3	1360.1	1334.5	1335.7
40°	3632.8	1843.7	1278.7	1328.7	1325.2	1355.5	1266.0	1297.3	1309.0	1300.8	1302.0
42.5°	3581.6	1734.4	1246.2	1282.2	1281.1	1221.8	1202.0	1228.8	1259.0	1262.5	1260.1
45°	3541.0	1649.6	1212.5	1211.3	1234.6	1141.6	1135.8	1152.0	1195.0	1216.0	1214.8
47.5°	3495.6	1578.7	1161.3	1128.8	1135.8	1091.6	1082.3	1089.3	1141.6	1175.3	1184.6
50°	3438.7	1507.8	1097.4	1053.2	1024.2	1045.1	1047.4	1048.6	1100.9	1139.2	1147.4
52.5°	3393.3	1454.3	1024.2	991.6	956.7	1003.2	1020.7	1023.0	1054.4	1085.8	1091.6
55°	3420.1	1424.1	952.1	928.8	897.4	960.2	993.9	998.6	1005.6	1028.8	1032.3
57.5°	3500.3	1431.0	894.0	863.7	840.5	909.1	966.0	969.5	964.9	992.8	997.4
60°	3524.7	1427.5	850.9	791.7	777.7	854.4	925.3	932.3	931.2	971.8	980.0
62.5°	3422.4	1383.4	807.9	731.2	721.9	798.6	868.4	896.3	902.1	960.2	970.7
65°	3181.7	1292.7	751.0	667.3	667.3	739.3	813.7	852.1	868.4	946.3	957.9
67.5°	2864.4	1185.7	692.8	612.6	610.3	682.4	755.6	795.1	820.7	926.5	933.5
70°	2377.3	1041.6	620.8	553.3	553.3	618.4	684.7	732.4	769.6	889.3	889.3
72.5°	1628.7	866.1	533.6	485.9	487.1	547.5	615.0	668.4	712.6	814.9	817.2
75°	1030.0	676.6	438.3	413.8	418.5	475.5	545.2	601.0	689.4	805.6	809.1
77.5°	547.5	475.5	348.7	342.9	348.7	401.1	478.9	555.7	691.7	698.7	687.0
80°	354.6	337.1	275.5	263.9	266.2	323.2	426.6	527.8	555.7	562.6	537.1
82.5°	193.0	213.9	195.3	183.7	183.7	252.3	363.9	419.7	398.7	331.3	316.2
85°	82.5	100.0	101.1	88.3	84.9	155.8	244.1	229.0	212.7	203.4	201.1
87.5°	23.2	32.5	32.5	24.4	18.6	43.0	48.8	13.9	0.0	1.2	2.3
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)