

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: P458894

Luminaire Tested: **GALN-SA4B-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458894
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-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21174 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

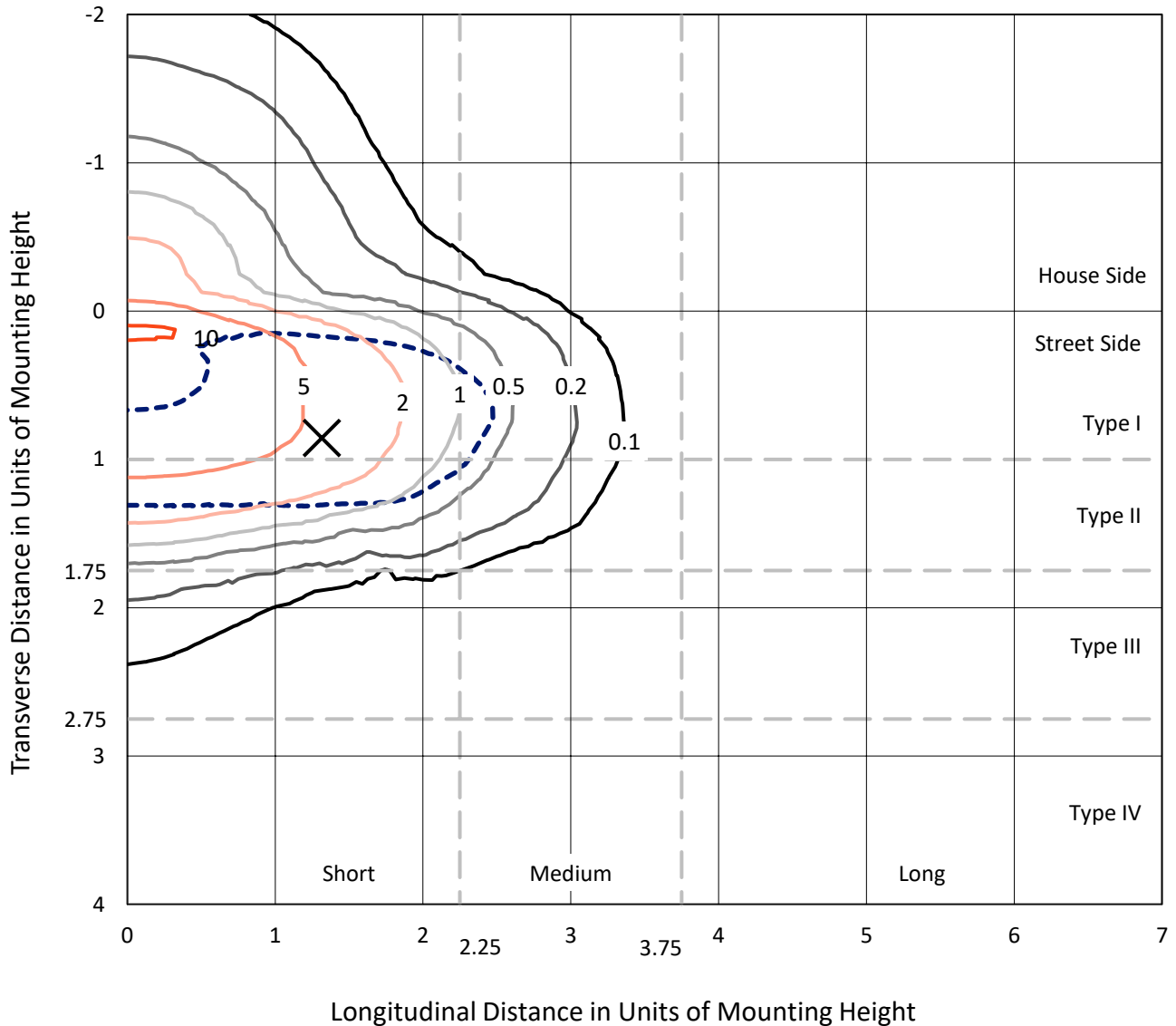
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

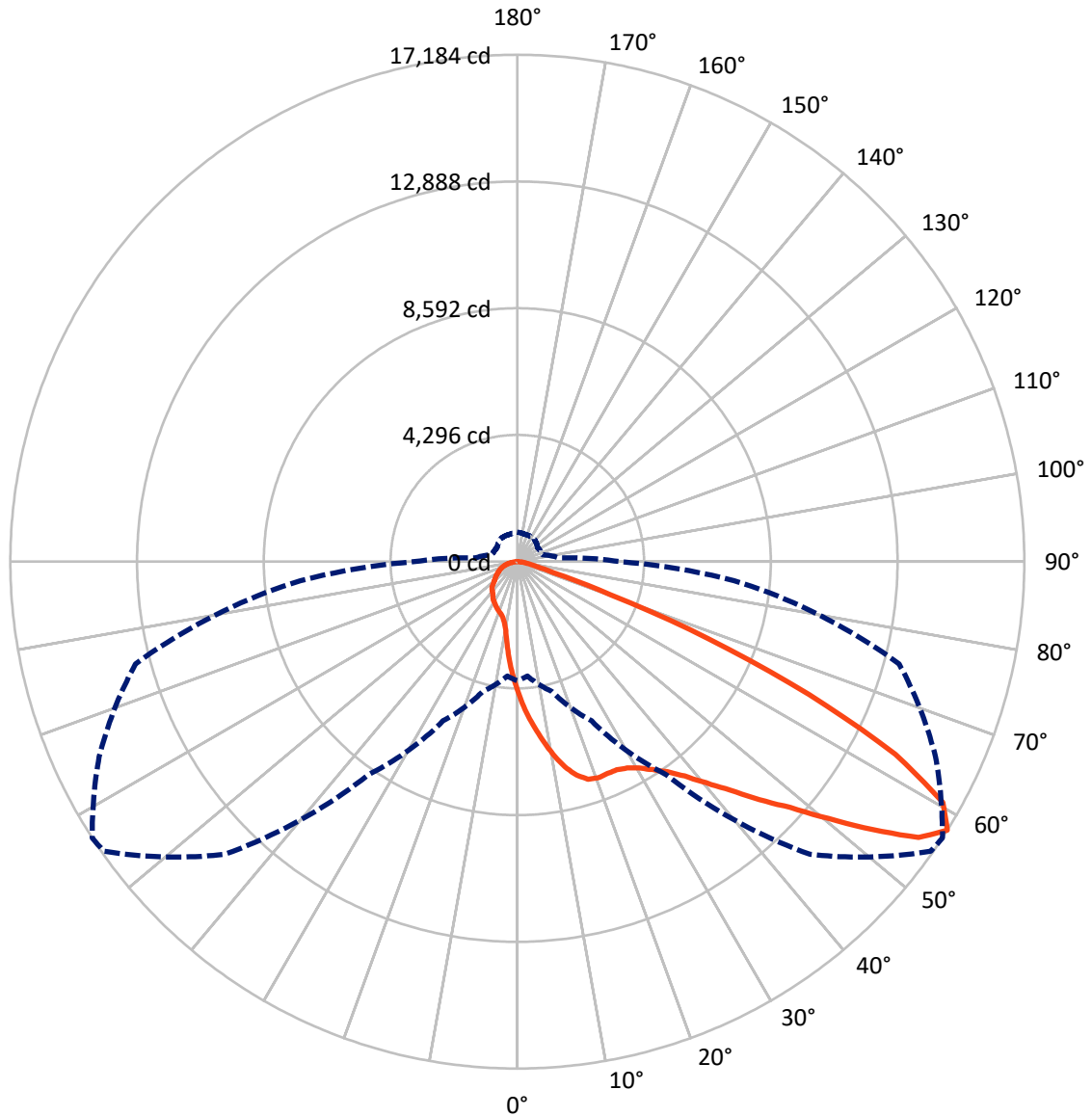
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	3220.0	0.0	3220.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	17954.0	0.0	17954.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	21174.0	0.0	21174.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.5	2.0
10°-20°	1260.0	6.0
20°-30°	2092.2	9.9
30°-40°	3151.5	14.9
40°-50°	4731.6	22.3
50°-60°	5303.6	25.0
60°-70°	3103.9	14.7
70°-80°	918.1	4.3
80°-90°	185.6	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°	21174.0	100.0
0°-180°	21174.0	100.0

Coefficient of Utilization



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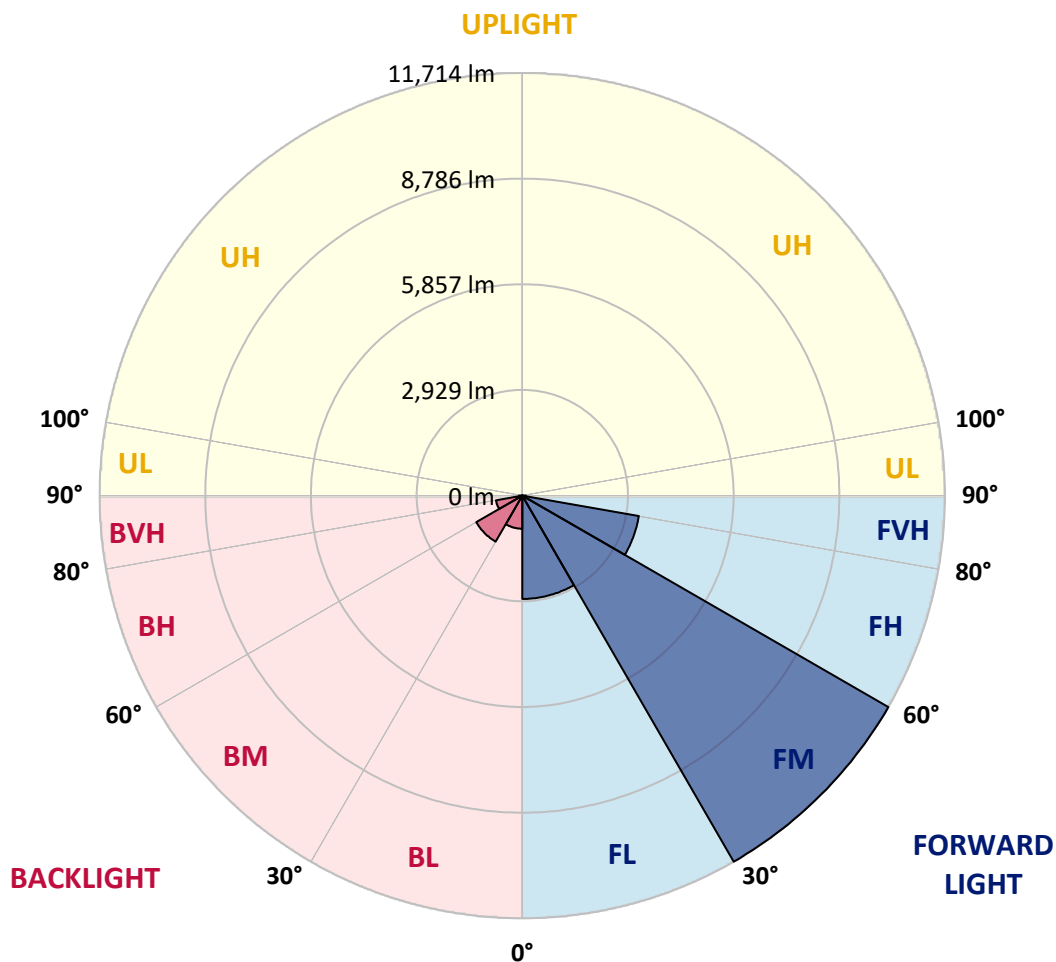
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2862.2	13.5			
FM	(30°-60°)	11714.4	55.3			
FH	(60°-80°)	3281.1	15.5			G2/5000
FVH	(80°-90°)	96.3	0.5			G1/100
BL	(0°-30°)	917.5	4.3	B2/1000		
BM	(30°-60°)	1472.3	7.0	B2/2500		
BH	(60°-80°)	740.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	89.3	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°	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4
2.5°	5527.5	5467.2	5419.7	5378.0	5323.5	5176.3	5029.1	5026.8	4909.7	4728.9	4543.5
5°	6428.1	6346.9	6357.4	6227.5	6097.7	5884.5	5572.7	5556.5	5307.3	4968.8	4624.6
7.5°	7014.5	7015.7	6983.2	6909.1	6768.8	6526.6	6173.1	6093.1	5746.5	5233.1	4717.3
10°	6984.4	7015.7	7070.2	7133.9	7176.8	7057.4	6735.2	6637.9	6187.0	5553.0	4820.5
12.5°	6583.4	6632.1	6709.7	6869.7	7128.1	7325.2	7215.1	7136.2	6697.0	5871.7	4934.1
15°	6333.0	6362.0	6404.9	6512.7	6790.8	7262.6	7547.7	7506.0	7178.0	6232.2	5061.5
17.5°	6256.5	6285.5	6299.4	6365.5	6563.7	7047.0	7678.7	7752.9	7604.5	6563.7	5190.2
20°	6333.0	6346.9	6346.9	6386.3	6541.7	6920.7	7672.9	7822.4	7954.5	6961.2	5310.7
22.5°	6533.5	6539.3	6531.2	6545.1	6661.0	6955.4	7618.4	7803.9	8237.3	7298.5	5404.6
25°	6859.2	6868.5	6815.2	6782.7	6867.3	7108.4	7648.5	7818.9	8458.7	7620.7	5467.2
27.5°	7229.0	7240.6	7175.6	7100.3	7139.7	7297.3	7766.8	7919.8	8624.5	7938.3	5506.6
30°	7682.2	7686.8	7577.8	7487.4	7461.9	7579.0	7968.4	8111.0	8830.8	8312.7	5565.7
32.5°	8145.8	8180.5	8040.3	7912.8	7869.9	7905.8	8266.3	8404.2	9076.5	8714.9	5660.8
35°	8776.3	8782.1	8614.0	8458.7	8317.3	8363.7	8647.6	8747.3	9416.1	9179.6	5795.2
37.5°	9563.3	9616.6	9384.8	9095.0	8921.2	8853.9	9108.9	9217.9	9892.4	9749.9	5998.1
40°	10437.2	10456.9	10258.7	10077.9	9760.3	9565.6	9741.8	9860.0	10480.1	10430.2	6233.3
42.5°	10986.6	11029.5	11044.5	11026.0	10787.2	10460.4	10527.6	10583.2	11175.5	11068.9	6474.4
45°	11172.0	11235.8	11451.4	11908.0	11933.5	11611.3	11454.8	11508.2	11933.5	11713.3	6705.1
47.5°	10864.9	10973.8	11371.4	12307.9	13009.1	13033.5	12561.7	12444.7	12624.3	12247.6	6872.0
50°	10070.9	10094.1	10702.6	12058.7	13513.3	14393.0	13905.1	13687.2	13280.3	12642.9	6986.7
52.5°	8842.4	8869.0	9379.0	10900.8	13202.7	15343.4	15476.7	15087.3	13946.8	12950.0	7062.1
55°	6563.7	6717.8	7278.8	8749.6	11730.7	15254.2	16726.2	16504.8	14752.3	13193.4	7180.3
57.5°	4035.8	3894.4	4559.7	5952.9	8822.7	14027.9	17112.1	17184.0	15639.0	13397.4	7378.5
60°	1856.8	1884.6	2159.3	3070.3	5378.0	10973.8	16117.7	16572.0	16129.3	13390.4	7428.3
62.5°	1279.6	1254.1	1184.5	1348.0	2452.5	6940.4	13614.1	14383.7	15146.4	12974.4	7230.1
65°	1144.0	1118.5	984.0	938.8	1126.6	3025.1	9897.1	10868.4	12753.0	11924.3	6736.4
67.5°	1068.6	1033.9	894.8	806.7	804.4	1204.2	5835.8	7005.3	9459.0	10081.4	5837.0
70°	989.8	962.0	824.1	726.7	685.0	756.9	2565.0	3357.8	6141.8	7264.9	4546.9
72.5°	911.0	878.6	754.5	650.2	595.7	566.8	982.9	1278.4	3470.2	4355.7	2787.5
75°	796.3	780.0	674.6	588.8	529.7	457.8	623.6	711.7	1659.8	2000.5	1399.0
77.5°	696.6	679.2	599.2	514.6	471.7	372.1	442.8	483.3	700.1	811.3	631.7
80°	510.0	527.4	505.3	454.3	420.7	292.1	297.9	331.5	416.1	460.1	386.0
82.5°	323.4	355.8	389.4	350.0	318.7	230.6	206.3	219.1	284.0	301.4	171.5
85°	135.6	137.9	226.0	213.3	182.0	136.8	124.0	131.0	151.8	158.8	80.0
87.5°	52.2	51.0	80.0	74.2	56.8	39.4	39.4	44.0	60.3	55.6	25.5
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°	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4	4448.4
2.5°	4463.5	4381.2	4217.8	4014.9	3866.6	3699.7	3552.5	3447.0	3407.6	3389.0	3354.3
5°	4460.0	4297.7	3959.3	3604.6	3319.5	3027.4	2780.5	2620.6	2606.7	2500.1	2489.6
7.5°	4461.2	4213.1	3674.2	3152.6	2718.0	2418.9	2214.9	2161.6	2097.9	2081.6	2089.8
10°	4464.6	4105.3	3368.2	2705.2	2284.5	2088.6	2012.1	1991.2	1993.6	2000.5	2001.7
12.5°	4469.3	4001.0	3050.6	2365.6	2041.1	1959.9	1951.8	1970.4	1990.1	2005.1	2008.6
15°	4475.1	3881.6	2741.1	2092.1	1919.4	1912.4	1939.1	1970.4	1998.2	2020.2	2023.7
17.5°	4468.1	3742.6	2481.5	1924.0	1852.2	1885.8	1929.8	1969.2	1994.7	2015.6	2017.9
20°	4451.9	3587.2	2231.2	1805.8	1810.4	1864.9	1912.4	1949.5	1977.3	1987.8	1995.9
22.5°	4389.3	3401.8	2013.3	1714.2	1760.6	1835.9	1892.7	1914.7	1883.4	1861.4	1867.2
25°	4282.7	3160.7	1810.4	1640.0	1715.4	1795.4	1853.3	1800.0	1774.5	1765.2	1769.9
27.5°	4149.4	2896.5	1657.4	1562.4	1657.4	1750.2	1733.9	1724.7	1713.1	1698.0	1701.5
30°	4005.7	2638.0	1527.6	1502.1	1594.8	1648.2	1655.1	1670.2	1657.4	1634.3	1643.5
32.5°	3872.4	2394.6	1429.1	1451.1	1550.8	1542.7	1594.8	1612.2	1553.1	1475.5	1478.9
35°	3758.8	2168.6	1354.9	1401.3	1475.5	1478.9	1531.1	1470.8	1407.1	1370.0	1372.3
37.5°	3673.0	1992.4	1306.2	1358.4	1379.3	1423.3	1395.5	1364.2	1356.1	1330.6	1331.7
40°	3622.0	1838.2	1274.9	1324.8	1321.3	1351.4	1262.2	1293.5	1305.1	1297.0	1298.1
42.5°	3571.0	1729.3	1242.5	1278.4	1277.3	1218.2	1198.5	1225.1	1255.2	1258.7	1256.4
45°	3530.5	1644.7	1208.9	1207.7	1230.9	1138.2	1132.4	1148.6	1191.5	1212.4	1211.2
47.5°	3485.2	1574.0	1157.9	1125.4	1132.4	1088.3	1079.1	1086.0	1138.2	1171.8	1181.1
50°	3428.5	1503.3	1094.1	1050.1	1021.1	1042.0	1044.3	1045.5	1097.6	1135.9	1144.0
52.5°	3383.3	1450.0	1021.1	988.7	953.9	1000.3	1017.6	1020.0	1051.3	1082.5	1088.3
55°	3409.9	1419.8	949.3	926.1	894.8	957.4	991.0	995.6	1002.6	1025.8	1029.2
57.5°	3489.9	1426.8	891.3	861.2	838.0	906.4	963.2	966.6	962.0	989.8	994.5
60°	3514.2	1423.3	848.4	789.3	775.4	851.9	922.6	929.6	928.4	969.0	977.1
62.5°	3412.2	1379.3	805.5	729.0	719.8	796.3	865.8	893.6	899.4	957.4	967.8
65°	3172.3	1288.9	748.7	665.3	665.3	737.2	811.3	849.6	865.8	943.5	955.1
67.5°	2855.9	1182.2	690.8	610.8	608.5	680.4	753.4	792.8	818.3	923.8	930.7
70°	2370.2	1038.5	618.9	551.7	551.7	616.6	682.7	730.2	767.3	886.7	886.7
72.5°	1623.8	863.5	532.0	484.5	485.6	545.9	613.1	666.5	710.5	812.5	814.8
75°	1026.9	674.6	437.0	412.6	417.3	474.0	543.6	599.2	687.3	803.2	806.7
77.5°	545.9	474.0	347.7	341.9	347.7	399.9	477.5	554.0	689.6	696.6	685.0
80°	353.5	336.1	274.7	263.1	265.4	322.2	425.4	526.2	554.0	561.0	535.5
82.5°	192.4	213.3	194.7	183.1	183.1	251.5	362.8	418.4	397.6	330.3	315.3
85°	82.3	99.7	100.8	88.1	84.6	155.3	243.4	228.3	212.1	202.8	200.5
87.5°	23.2	32.5	32.5	24.3	18.5	42.9	48.7	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)