

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: P455820

Luminaire Tested: **GALN-SA7A-740-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455820
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-SA7A-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32164 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

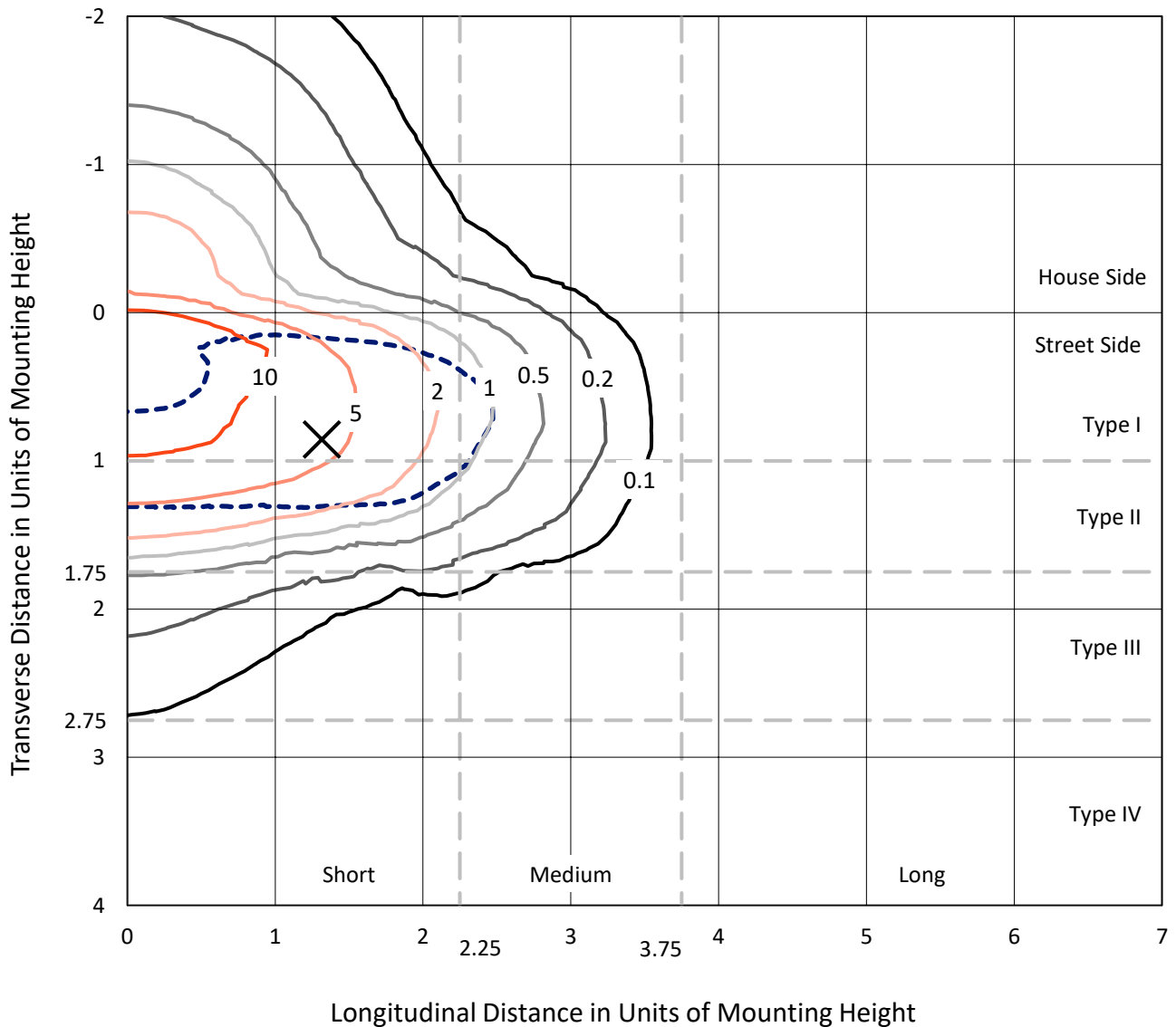
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

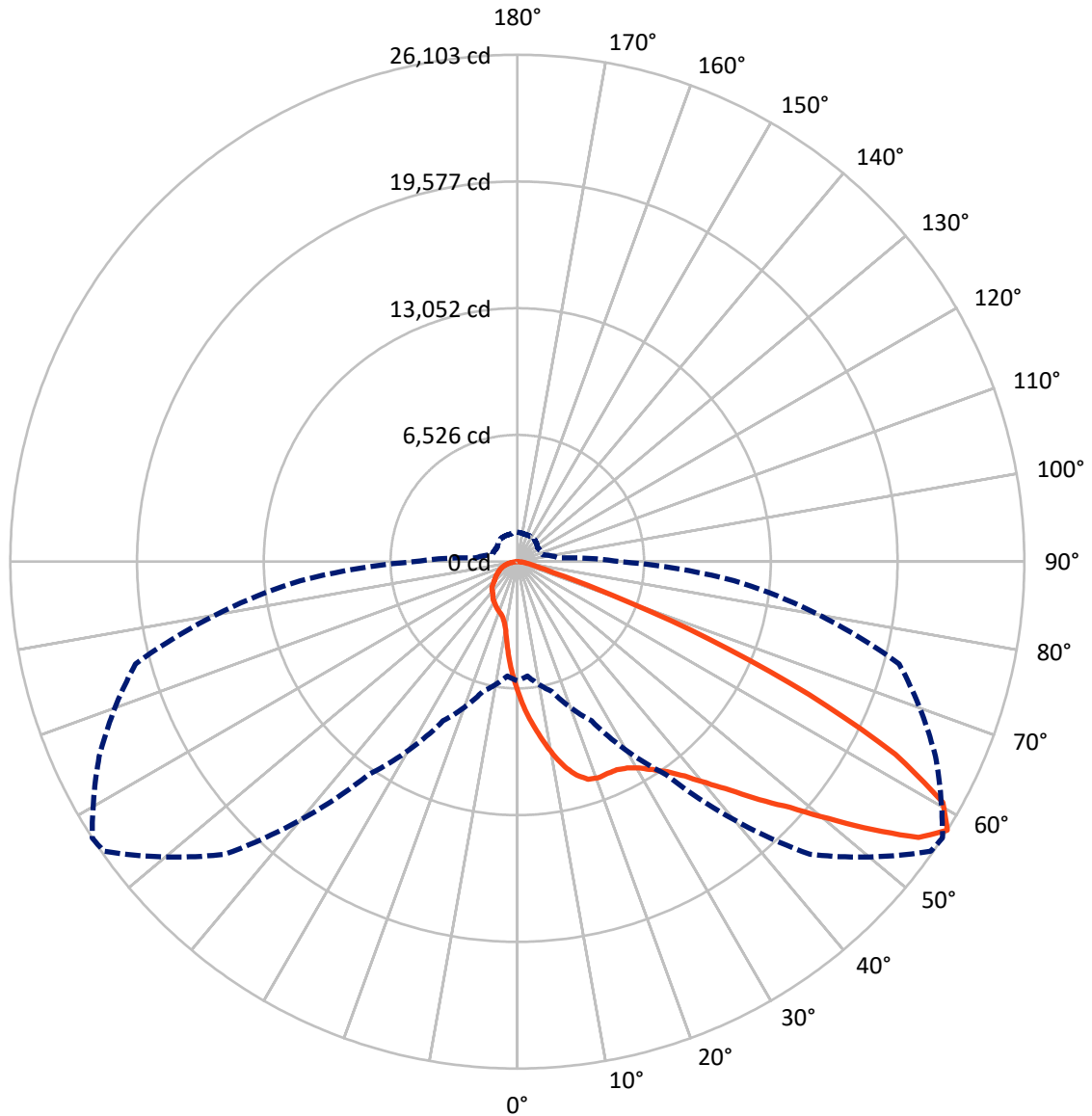
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	4891.2	0.0	4891.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	27272.8	0.0	27272.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	32164.0	0.0	32164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.4	2.0
10°-20°	1913.9	6.0
20°-30°	3178.1	9.9
30°-40°	4787.2	14.9
40°-50°	7187.5	22.3
50°-60°	8056.3	25.0
60°-70°	4714.9	14.7
70°-80°	1394.6	4.3
80°-90°	281.9	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°	32164.0	100.0
0°-180°	32164.0	100.0

Coefficient of Utilization



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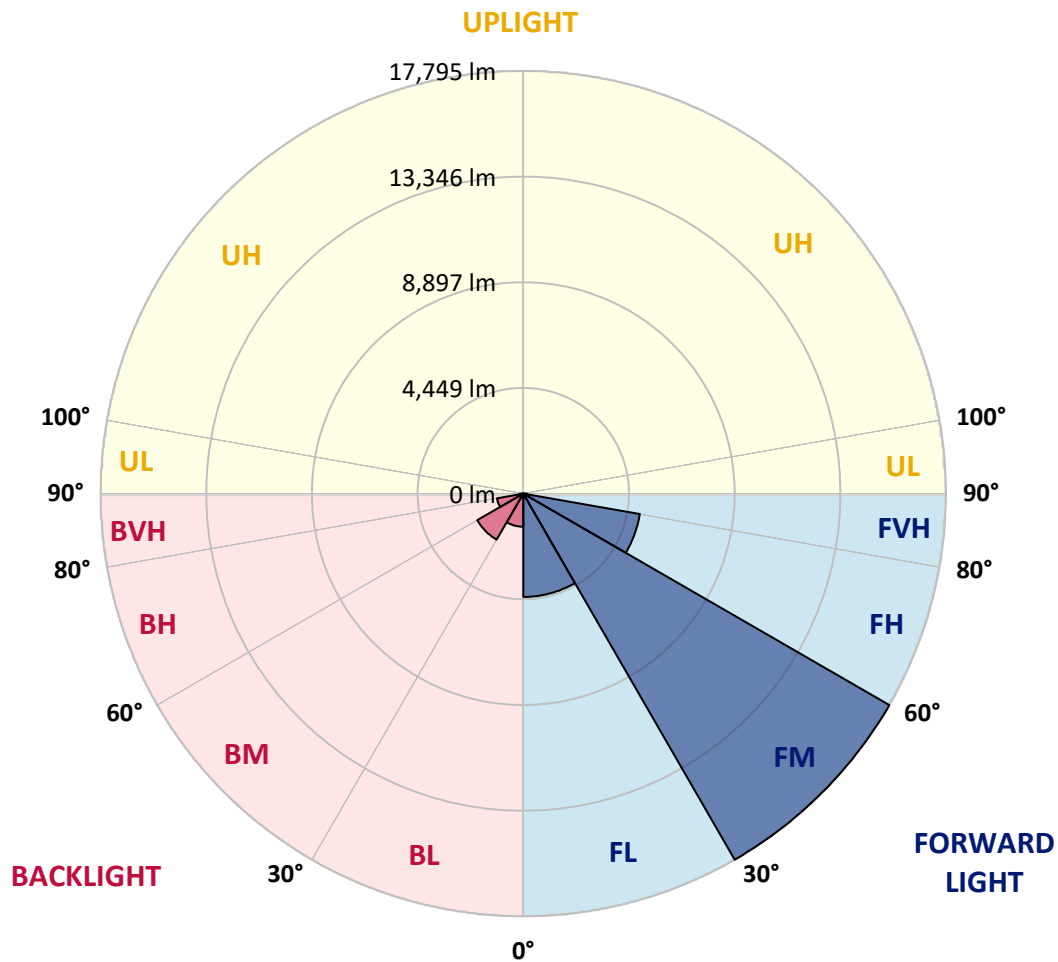
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4347.8	13.5			
FM	(30°-60°)	17794.5	55.3			
FH	(60°-80°)	4984.1	15.5			G2/5000
FVH	(80°-90°)	146.3	0.5			G2/225
BL	(0°-30°)	1393.7	4.3	B3/2500		
BM	(30°-60°)	2236.5	7.0	B2/2500		
BH	(60°-80°)	1125.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	135.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3
2.5°	8396.4	8304.9	8232.7	8169.3	8086.6	7863.0	7639.4	7635.8	7458.0	7183.4	6901.7
5°	9764.4	9641.2	9657.0	9459.9	9262.7	8938.7	8465.1	8440.4	8061.9	7547.8	7024.9
7.5°	10655.3	10657.1	10607.8	10495.1	10282.1	9914.1	9377.1	9255.6	8729.2	7949.2	7165.8
10°	10609.5	10657.1	10739.8	10836.7	10901.8	10720.5	10231.0	10083.1	9398.2	8435.2	7322.4
12.5°	10000.4	10074.3	10192.3	10435.2	10827.9	11127.2	10959.9	10840.2	10172.9	8919.3	7495.0
15°	9620.1	9664.1	9729.2	9893.0	10315.5	11032.1	11465.2	11401.8	10903.6	9466.9	7688.7
17.5°	9503.9	9547.9	9569.0	9669.4	9970.4	10704.6	11664.2	11776.8	11551.5	9970.4	7884.1
20°	9620.1	9641.2	9641.2	9701.1	9937.0	10512.7	11655.4	11882.5	12083.2	10574.3	8067.2
22.5°	9924.7	9933.5	9921.1	9942.3	10118.3	10565.5	11572.6	11854.3	12512.8	11086.7	8209.8
25°	10419.4	10433.5	10352.5	10303.2	10431.7	10797.9	11618.4	11877.2	12849.1	11576.1	8304.9
27.5°	10981.0	10998.6	10900.0	10785.6	10845.5	11084.9	11798.0	12030.4	13100.8	12058.5	8364.7
30°	11669.4	11676.5	11511.0	11373.7	11334.9	11512.7	12104.3	12320.9	13414.2	12627.2	8454.5
32.5°	12373.7	12426.5	12213.5	12019.8	11954.7	12009.2	12556.8	12766.3	13787.5	13238.2	8598.9
35°	13331.5	13340.3	13085.0	12849.1	12634.3	12704.7	13136.0	13287.5	14303.3	13944.2	8803.1
37.5°	14526.9	14607.9	14255.8	13815.6	13551.5	13449.4	13836.8	14002.3	15027.0	14810.4	9111.2
40°	15854.5	15884.4	15583.3	15308.7	14826.2	14530.5	14798.1	14977.7	15919.6	15843.9	9468.7
42.5°	16689.0	16754.1	16777.0	16748.8	16386.2	15889.7	15991.8	16076.3	16976.0	16814.0	9834.9
45°	16970.7	17067.5	17395.0	18088.7	18127.4	17638.0	17400.3	17481.3	18127.4	17792.9	10185.2
47.5°	16504.1	16669.6	17273.5	18696.1	19761.3	19798.3	19081.7	18903.9	19176.8	18604.6	10438.8
50°	15298.1	15333.3	16257.6	18317.6	20527.2	21863.5	21122.2	20791.2	20173.3	19204.9	10613.1
52.5°	13431.8	13472.3	14247.0	16558.7	20055.3	23307.2	23509.7	22918.1	21185.6	19671.5	10727.5
55°	9970.4	10204.6	11056.7	13291.0	17819.3	23171.6	25407.6	25071.3	22409.3	20041.2	10907.1
57.5°	6130.5	5915.7	6926.3	9042.6	13401.9	21308.9	25993.9	26103.1	23756.1	20351.1	11208.2
60°	2820.5	2862.8	3280.0	4663.9	8169.3	16669.6	24483.3	25173.5	24500.9	20340.5	11283.9
62.5°	1943.7	1905.0	1799.4	2047.6	3725.5	10542.6	20680.3	21849.4	23007.9	19708.5	10982.8
65°	1737.7	1699.0	1494.8	1426.1	1711.3	4595.2	15034.0	16509.4	19372.2	18113.3	10232.8
67.5°	1623.3	1570.5	1359.2	1225.4	1221.9	1829.3	8864.8	10641.2	14368.5	15313.9	8866.5
70°	1503.6	1461.3	1251.8	1103.9	1040.5	1149.7	3896.3	5100.5	9329.6	11035.6	6906.9
72.5°	1383.9	1334.6	1146.2	987.7	905.0	860.9	1493.0	1942.0	5271.3	6616.4	4234.3
75°	1209.6	1184.9	1024.7	894.4	804.6	695.4	947.2	1081.0	2521.2	3038.8	2125.1
77.5°	1058.1	1031.7	910.2	781.7	716.6	565.2	672.6	734.2	1063.4	1232.4	959.5
80°	774.7	801.1	767.6	690.2	639.1	443.7	452.5	503.5	632.1	699.0	586.3
82.5°	491.2	540.5	591.6	531.7	484.2	350.4	313.4	332.8	431.4	457.8	260.6
85°	206.0	209.5	343.3	324.0	276.4	207.8	188.4	199.0	230.6	241.2	121.5
87.5°	79.2	77.5	121.5	112.7	86.3	59.9	59.9	66.9	91.6	84.5	38.7
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°	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3	6757.3
2.5°	6780.2	6655.2	6406.9	6098.8	5873.5	5619.9	5396.3	5236.1	5176.2	5148.1	5095.3
5°	6774.9	6528.4	6014.3	5475.6	5042.4	4598.8	4223.7	3980.8	3959.7	3797.7	3781.8
7.5°	6776.7	6399.9	5581.2	4788.9	4128.7	3674.4	3364.6	3283.6	3186.7	3162.1	3174.4
10°	6781.9	6236.1	5116.4	4109.3	3470.2	3172.7	3056.4	3024.8	3028.3	3038.8	3040.6
12.5°	6789.0	6077.7	4634.0	3593.4	3100.5	2977.2	2964.9	2993.1	3023.0	3045.9	3051.2
15°	6797.8	5896.3	4163.9	3177.9	2915.6	2905.0	2945.5	2993.1	3035.3	3068.8	3074.1
17.5°	6787.2	5685.1	3769.5	2922.6	2813.5	2864.5	2931.4	2991.3	3030.0	3061.7	3065.3
20°	6762.6	5449.1	3389.2	2743.1	2750.1	2832.8	2905.0	2961.4	3003.6	3019.5	3031.8
22.5°	6667.5	5167.4	3058.2	2604.0	2674.4	2788.8	2875.1	2908.6	2861.0	2827.6	2836.4
25°	6505.5	4801.2	2750.1	2491.3	2605.7	2727.2	2815.2	2734.3	2695.5	2681.4	2688.5
27.5°	6303.0	4399.8	2517.7	2373.3	2517.7	2658.5	2633.9	2619.8	2602.2	2579.3	2584.6
30°	6084.7	4007.2	2320.5	2281.8	2422.6	2503.6	2514.2	2537.1	2517.7	2482.5	2496.6
32.5°	5882.3	3637.5	2170.9	2204.3	2355.7	2343.4	2422.6	2449.0	2359.2	2241.3	2246.6
35°	5709.7	3294.1	2058.2	2128.6	2241.3	2246.6	2325.8	2234.2	2137.4	2081.1	2084.6
37.5°	5579.4	3026.5	1984.2	2063.5	2095.1	2162.1	2119.8	2072.3	2059.9	2021.2	2023.0
40°	5502.0	2792.4	1936.7	2012.4	2007.1	2052.9	1917.3	1964.9	1982.5	1970.1	1971.9
42.5°	5424.5	2626.9	1887.4	1942.0	1940.2	1850.4	1820.5	1861.0	1906.8	1912.0	1908.5
45°	5362.9	2498.3	1836.3	1834.6	1869.8	1728.9	1720.1	1744.8	1809.9	1841.6	1839.9
47.5°	5294.2	2390.9	1758.9	1709.6	1720.1	1653.2	1639.1	1649.7	1728.9	1780.0	1794.1
50°	5207.9	2283.5	1662.0	1595.1	1551.1	1582.8	1586.3	1588.1	1667.3	1725.4	1737.7
52.5°	5139.3	2202.5	1551.1	1501.8	1449.0	1519.4	1545.8	1549.4	1596.9	1644.4	1653.2
55°	5179.8	2156.8	1442.0	1406.7	1359.2	1454.3	1505.3	1512.4	1522.9	1558.2	1563.4
57.5°	5301.2	2167.3	1353.9	1308.1	1272.9	1376.8	1463.1	1468.4	1461.3	1503.6	1510.6
60°	5338.2	2162.1	1288.8	1199.0	1177.9	1294.1	1401.5	1412.0	1410.3	1471.9	1484.2
62.5°	5183.3	2095.1	1223.6	1107.4	1093.3	1209.6	1315.2	1357.4	1366.2	1454.3	1470.1
65°	4818.8	1957.8	1137.4	1010.6	1010.6	1119.8	1232.4	1290.5	1315.2	1433.2	1450.8
67.5°	4338.2	1795.8	1049.3	927.9	924.3	1033.5	1144.4	1204.3	1243.0	1403.2	1413.8
70°	3600.5	1577.5	940.2	838.1	838.1	936.7	1037.0	1109.2	1165.5	1346.9	1346.9
72.5°	2466.6	1311.7	808.1	735.9	737.7	829.3	931.4	1012.4	1079.3	1234.2	1237.7
75°	1559.9	1024.7	663.8	626.8	633.8	720.1	825.7	910.2	1044.1	1220.1	1225.4
77.5°	829.3	720.1	528.2	519.4	528.2	607.4	725.4	841.6	1047.6	1058.1	1040.5
80°	537.0	510.6	417.3	399.7	403.2	489.5	646.2	799.3	841.6	852.1	813.4
82.5°	292.3	324.0	295.8	278.2	278.2	382.1	551.1	635.6	603.9	501.8	478.9
85°	125.0	151.4	153.2	133.8	128.5	235.9	369.7	346.8	322.2	308.1	304.6
87.5°	35.2	49.3	49.3	37.0	28.2	65.1	73.9	21.1	0.0	1.8	3.5
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)