

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: P455807

Luminaire Tested: **GALN-SA7A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29564 lumens
Efficiency: N/A
Efficacy: 137.5 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

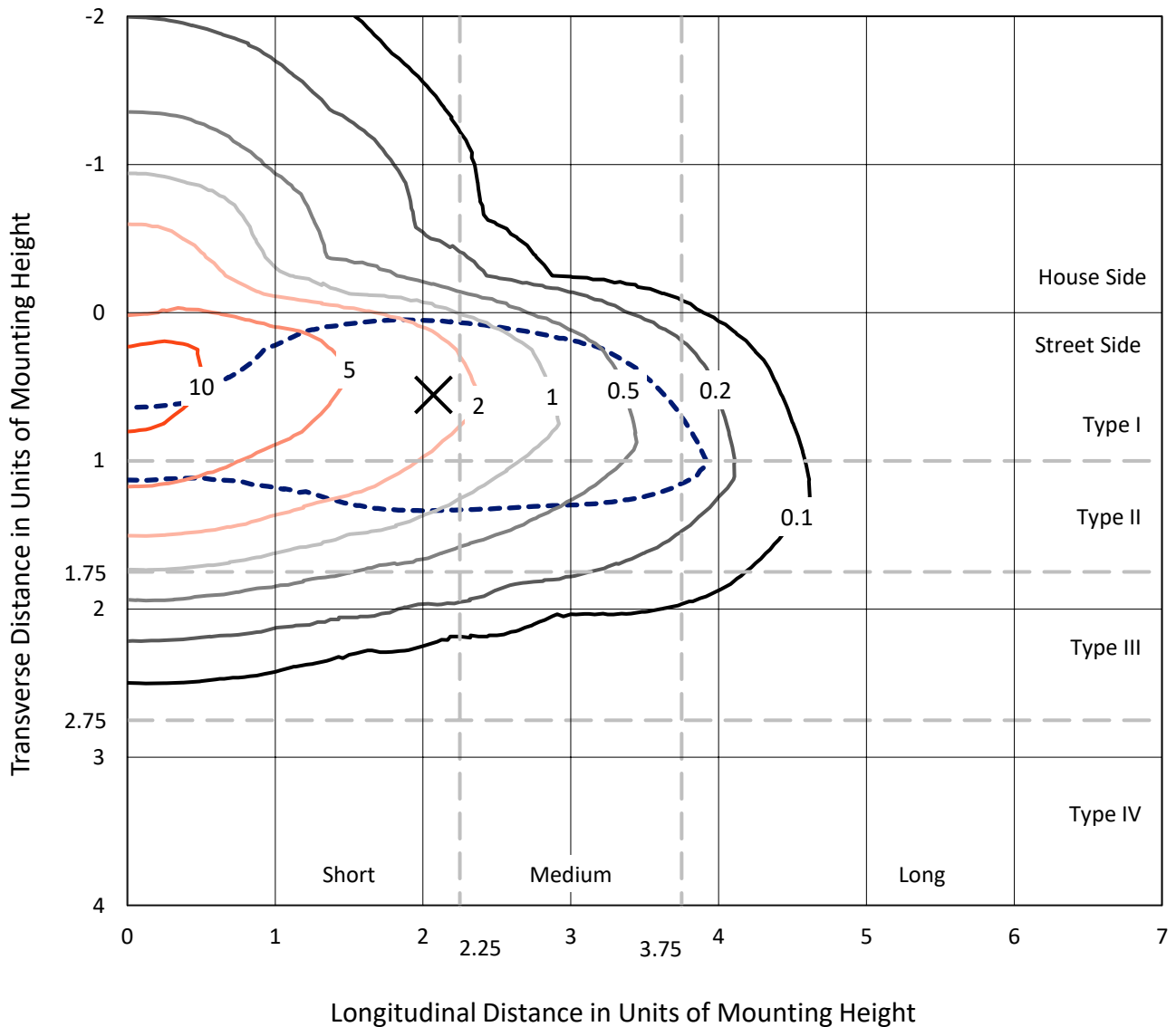
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

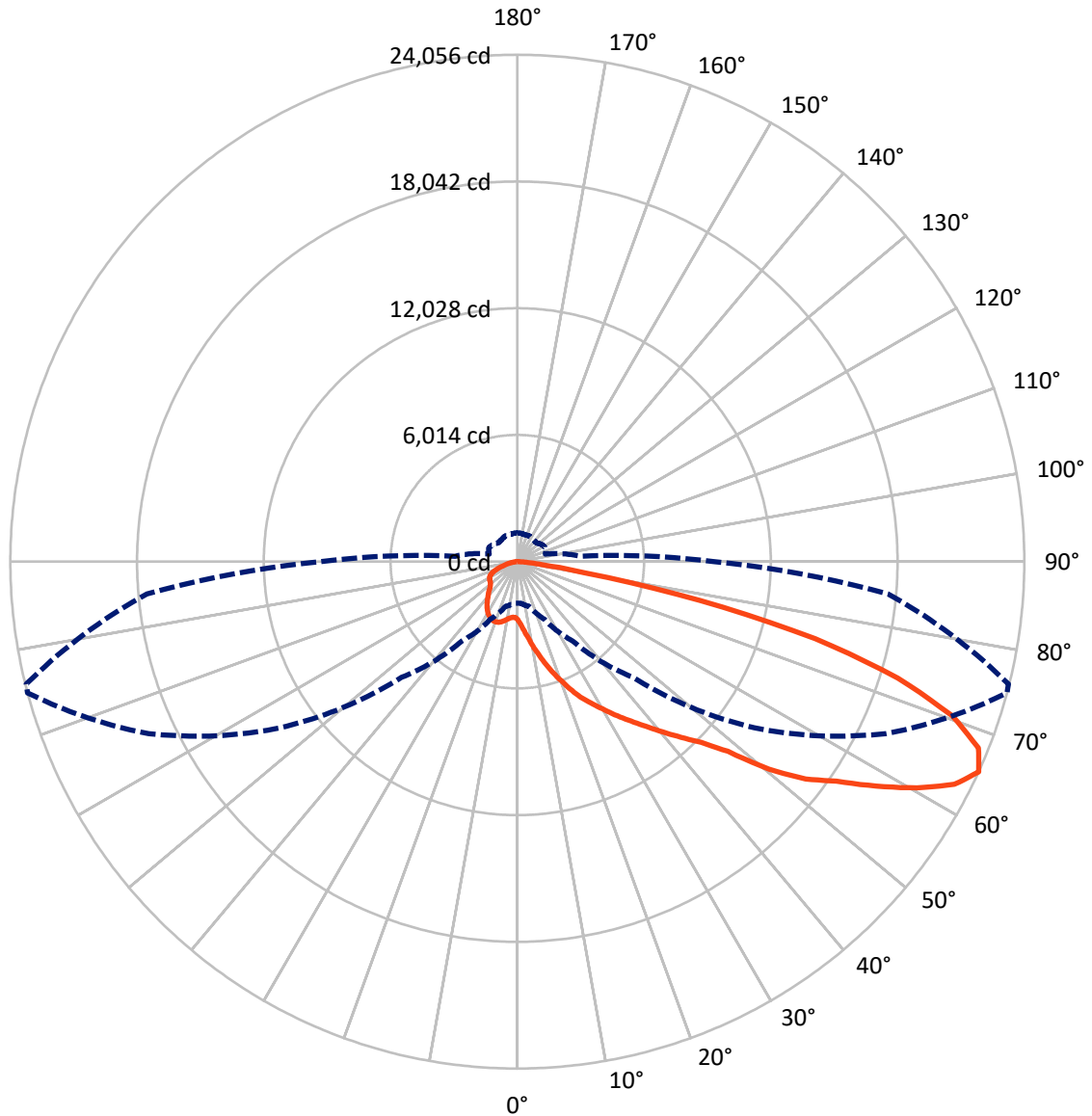
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4970.1	0.0	4970.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24593.9	0.0	24593.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	29564.0	0.0	29564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.1
10°-20°	1307.2	4.4
20°-30°	2525.1	8.5
30°-40°	4101.5	13.9
40°-50°	5641.9	19.1
50°-60°	6661.2	22.5
60°-70°	5836.3	19.7
70°-80°	2786.3	9.4
80°-90°	370.7	1.3
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°	29564.0	100.0
0°-180°	29564.0	100.0

Coefficient of Utilization



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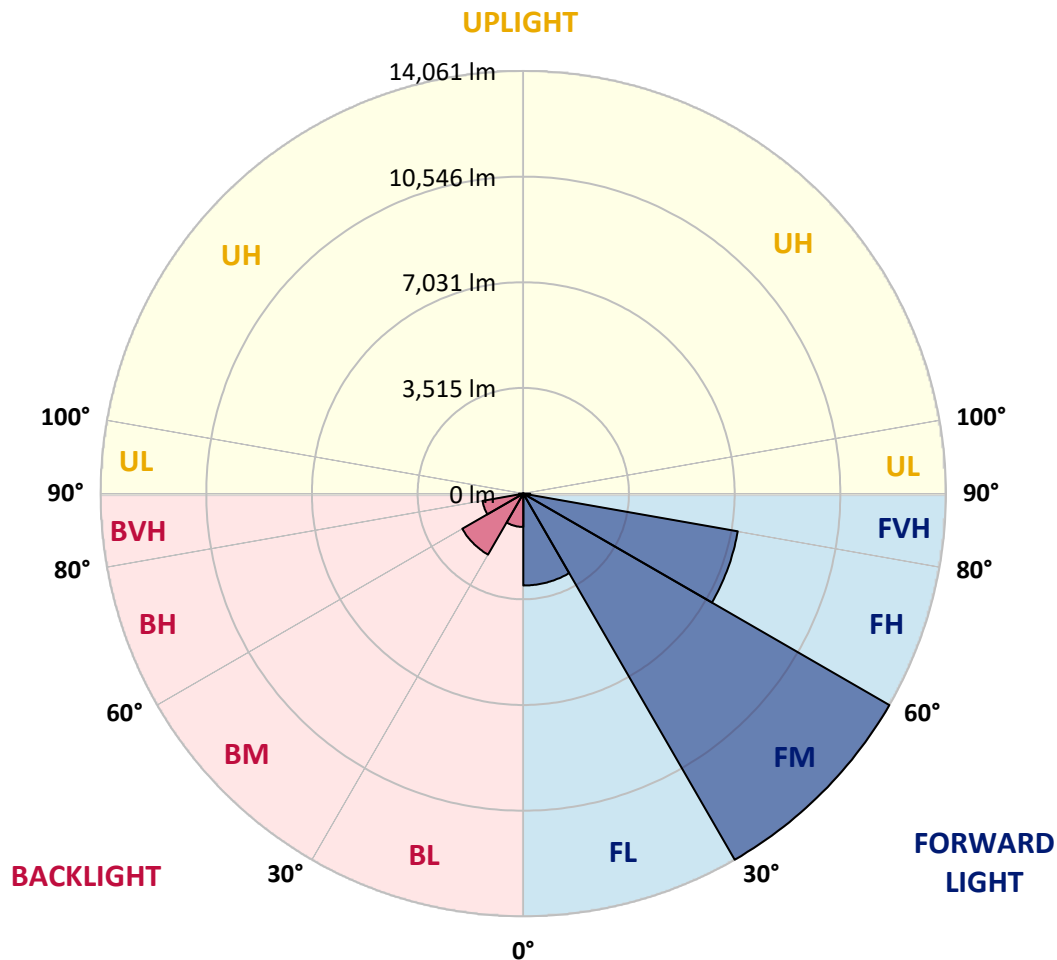
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3056.4	10.3			
FM	(30°-60°)	14061.3	47.6			
FH	(60°-80°)	7244.5	24.5			G3/7500
FVH	(80°-90°)	231.7	0.8			G3/500
BL	(0°-30°)	1109.6	3.8	B3/2500		
BM	(30°-60°)	2343.4	7.9	B2/2500		
BH	(60°-80°)	1378.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	139.1	0.5			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°	65°	75°	76°	85°
0°	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9
2.5°	3649.7	3625.6	3600.0	3529.4	3454.0	3369.0	3247.2	3130.1	2974.6	2969.8	2854.3
5°	4661.5	4645.5	4531.6	4465.9	4291.1	4058.6	3861.3	3555.1	3271.2	3237.6	3013.1
7.5°	5591.6	5529.0	5485.7	5367.1	5193.9	4895.6	4514.0	4100.3	3625.6	3580.7	3208.7
10°	6292.3	6285.9	6263.4	6160.8	6030.9	5734.3	5310.9	4717.6	4074.6	3986.4	3446.0
12.5°	6816.7	6821.5	6818.3	6816.7	6723.7	6471.9	6013.3	5387.9	4528.4	4465.9	3720.2
15°	7161.4	7209.5	7228.8	7308.9	7317.0	7148.6	6754.1	6035.7	5039.9	4946.9	4015.3
17.5°	7389.1	7413.2	7503.0	7639.3	7749.9	7719.5	7368.3	6635.5	5562.7	5407.1	4321.5
20°	7607.2	7648.9	7717.9	7903.9	8099.5	8189.3	7942.3	7249.6	6080.6	5981.2	4659.9
22.5°	8061.0	8120.3	8144.4	8239.0	8405.8	8564.5	8452.3	7838.1	6648.3	6513.6	5019.1
25°	8829.1	8891.6	8824.3	8801.8	8856.4	8934.9	8910.9	8392.9	7183.9	6991.4	5359.0
27.5°	9829.7	9837.7	9706.2	9581.2	9446.5	9406.4	9332.6	8885.2	7648.9	7488.5	5700.6
30°	10904.1	10865.6	10647.5	10421.4	10193.7	9969.2	9757.6	9359.9	8166.8	7982.4	6035.7
32.5°	11901.5	11880.6	11638.5	11287.3	10902.5	10690.8	10262.7	9839.3	8721.7	8543.7	6380.5
35°	12648.7	12679.2	12413.0	12029.8	11609.7	11422.0	10881.6	10342.9	9295.7	9101.7	6755.7
37.5°	13179.5	13163.5	12927.8	12595.8	12227.0	12063.5	11604.8	10892.9	9913.1	9727.1	7166.2
40°	13368.7	13359.1	13184.3	12942.2	12708.1	12650.3	12361.7	11486.2	10620.3	10402.2	7660.1
42.5°	13248.5	13269.3	13153.9	13088.1	13044.8	13086.5	13113.8	12263.9	11391.6	11191.1	8195.7
45°	12879.7	12868.4	12852.4	12959.8	13203.6	13477.8	13857.8	12998.3	12230.2	12069.9	8914.1
47.5°	12220.6	12300.8	12340.9	12637.5	13169.9	13819.3	14714.1	13982.9	13447.3	13307.8	10009.3
50°	11298.6	11362.7	11600.0	12127.6	12921.3	13947.6	15551.2	15592.9	15477.4	15216.0	11199.1
52.5°	9858.6	9958.0	10447.1	11414.0	12411.4	13894.7	16057.9	16973.5	17125.8	16930.2	12371.3
55°	8247.0	8386.5	8902.9	10171.3	11709.1	13606.1	16407.5	17773.7	18381.4	18200.2	13500.2
57.5°	6669.1	6816.7	7347.4	8575.7	10484.0	12967.9	16636.8	18665.2	20090.8	19855.1	14904.9
60°	4998.2	5152.2	5607.6	6872.8	8739.3	11720.3	16481.2	19438.1	21798.6	21697.5	16311.2
62.5°	3224.7	3394.7	3790.8	4837.9	6717.2	10015.7	15649.0	19864.7	23277.0	23155.2	17337.5
65°	1964.3	1983.6	2201.7	3003.4	4597.4	7754.7	13745.6	19298.6	24056.4	24019.5	17650.2
67.5°	1270.0	1300.5	1399.9	1799.2	2756.5	5386.3	10990.7	17430.5	23600.9	23588.1	17004.0
70°	1072.8	1082.4	1127.3	1213.9	1601.9	3266.4	7717.9	14452.7	21870.7	21870.7	15450.1
72.5°	958.9	971.7	987.8	1015.0	1143.3	1850.5	4605.4	11250.5	18883.3	19008.4	13150.7
75°	870.7	867.5	877.1	881.9	975.0	1209.1	2381.3	8320.8	14608.3	14358.1	9523.4
77.5°	745.6	750.5	745.6	766.5	861.1	920.4	1209.1	5583.5	8853.2	8529.2	4780.2
80°	612.6	620.6	628.6	641.4	736.0	699.1	726.4	2544.8	3274.4	3205.5	1476.9
82.5°	460.2	471.4	484.3	514.7	578.9	461.8	458.6	1087.2	1181.8	1082.4	543.6
85°	186.0	219.7	331.9	362.4	364.0	253.4	282.2	453.8	482.7	471.4	213.3
87.5°	43.3	51.3	107.4	162.0	149.1	94.6	104.2	147.5	168.4	155.5	72.2
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°	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9	2746.9
2.5°	2801.4	2745.3	2649.1	2575.3	2522.4	2475.9	2447.0	2429.4	2423.0	2421.3	2423.0
5°	2896.0	2796.6	2644.2	2548.0	2495.1	2464.6	2447.0	2445.4	2447.0	2448.6	2443.8
7.5°	3025.9	2883.2	2684.3	2594.5	2554.4	2532.0	2524.0	2520.8	2522.4	2520.8	2520.8
10°	3199.1	3003.4	2762.9	2669.9	2636.2	2610.6	2597.7	2589.7	2583.3	2576.9	2573.7
12.5°	3389.9	3136.5	2847.9	2758.1	2710.0	2669.9	2641.0	2620.2	2605.8	2591.3	2588.1
15°	3603.2	3277.6	2942.5	2817.4	2748.5	2689.1	2639.4	2605.8	2580.1	2559.3	2557.7
17.5°	3806.8	3410.7	3006.6	2844.7	2743.7	2660.3	2594.5	2548.0	2516.0	2488.7	2485.5
20°	4024.9	3537.4	3035.5	2827.0	2695.6	2594.5	2507.9	2451.8	2414.9	2384.5	2379.7
22.5°	4244.6	3644.9	3032.3	2770.9	2612.2	2493.5	2402.1	2342.8	2299.5	2269.0	2257.8
25°	4454.6	3731.4	2992.2	2681.1	2496.7	2373.2	2280.2	2225.7	2187.2	2150.4	2150.4
27.5°	4643.9	3782.8	2916.8	2572.1	2378.1	2248.2	2174.4	2124.7	2089.4	2065.4	2050.9
30°	4829.9	3806.8	2814.2	2434.2	2253.0	2142.3	2083.0	2054.1	2022.1	1994.8	1991.6
32.5°	4996.6	3802.0	2685.9	2299.5	2134.3	2055.7	2031.7	2009.2	1975.6	1937.1	1927.5
35°	5158.6	3769.9	2533.6	2152.0	2034.9	2004.4	2010.8	1978.8	1917.8	1869.7	1861.7
37.5°	5335.0	3712.2	2366.8	2031.7	1951.5	1980.4	1996.4	1925.9	1826.4	1751.1	1733.4
40°	5538.6	3646.5	2193.6	1911.4	1885.8	1957.9	1957.9	1828.0	1691.7	1645.2	1632.4
42.5°	5777.6	3591.9	2049.3	1810.4	1831.2	1903.4	1895.4	1698.2	1642.0	1618.0	1611.6
45°	6156.0	3572.7	1900.2	1722.2	1786.3	1839.3	1773.5	1653.3	1621.2	1601.9	1595.5
47.5°	6754.1	3595.1	1768.7	1656.5	1735.0	1775.1	1637.2	1622.8	1600.3	1573.1	1569.9
50°	7308.9	3574.3	1675.7	1619.6	1690.1	1698.2	1581.1	1585.9	1573.1	1542.6	1536.2
52.5°	7762.8	3508.6	1616.4	1600.3	1651.6	1563.5	1528.2	1545.8	1541.0	1502.5	1496.1
55°	8261.5	3468.5	1587.5	1600.3	1626.0	1446.4	1478.5	1504.1	1497.7	1470.4	1468.8
57.5°	8866.0	3476.5	1566.7	1605.1	1600.3	1387.1	1428.8	1459.2	1457.6	1449.6	1449.6
60°	9485.0	3479.7	1534.6	1603.5	1569.9	1340.6	1377.4	1420.7	1423.9	1428.8	1428.8
62.5°	9690.2	3340.2	1472.1	1574.7	1502.5	1295.7	1329.3	1388.7	1385.5	1398.3	1399.9
65°	9307.0	2953.7	1379.0	1508.9	1415.9	1263.6	1292.5	1347.0	1329.3	1363.0	1369.4
67.5°	8471.5	2443.8	1234.7	1390.3	1319.7	1229.9	1268.4	1289.2	1257.2	1322.9	1324.5
70°	7321.8	1908.2	1051.9	1221.9	1210.7	1194.6	1249.2	1217.1	1172.2	1252.4	1236.3
72.5°	6122.3	1457.6	840.3	999.0	1064.8	1141.7	1215.5	1124.1	1061.5	1085.6	1056.7
75°	4599.0	1077.6	675.1	782.5	886.8	1066.4	1185.0	1011.8	915.6	893.2	886.8
77.5°	2344.4	704.0	505.1	585.3	665.5	963.7	1143.3	880.3	758.5	723.2	707.2
80°	837.0	437.8	356.0	404.1	449.0	829.0	999.0	728.0	588.5	582.1	588.5
82.5°	388.1	282.2	238.9	264.6	266.2	553.2	761.7	543.6	447.4	679.9	574.1
85°	166.8	141.1	134.7	131.5	121.9	246.9	428.1	291.8	455.4	203.6	187.6
87.5°	49.7	56.1	49.7	36.9	27.3	27.3	43.3	16.0	11.2	8.0	8.0
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)