

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: P455347

Luminaire Tested: **GALN-SA6C-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38853 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

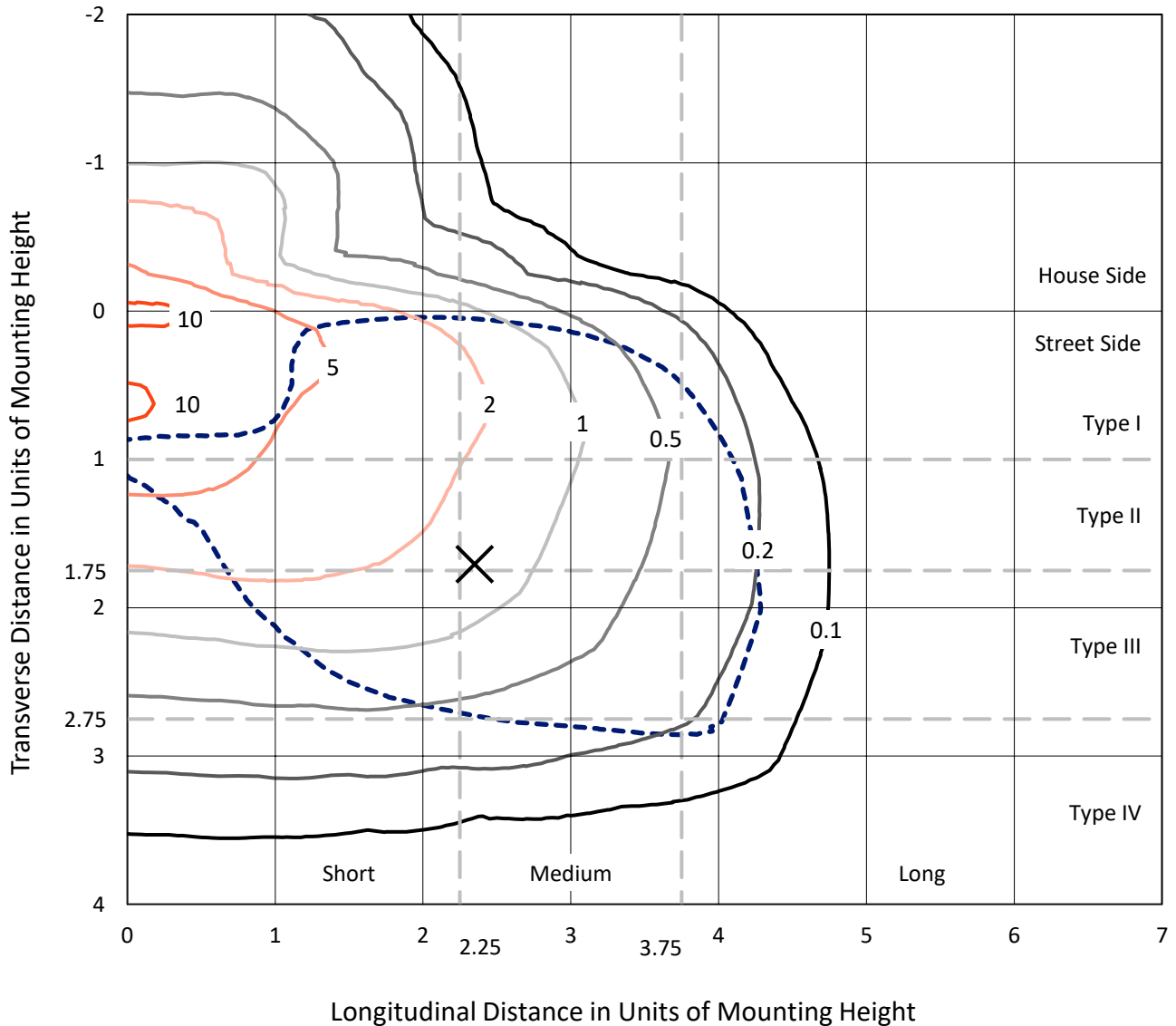
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

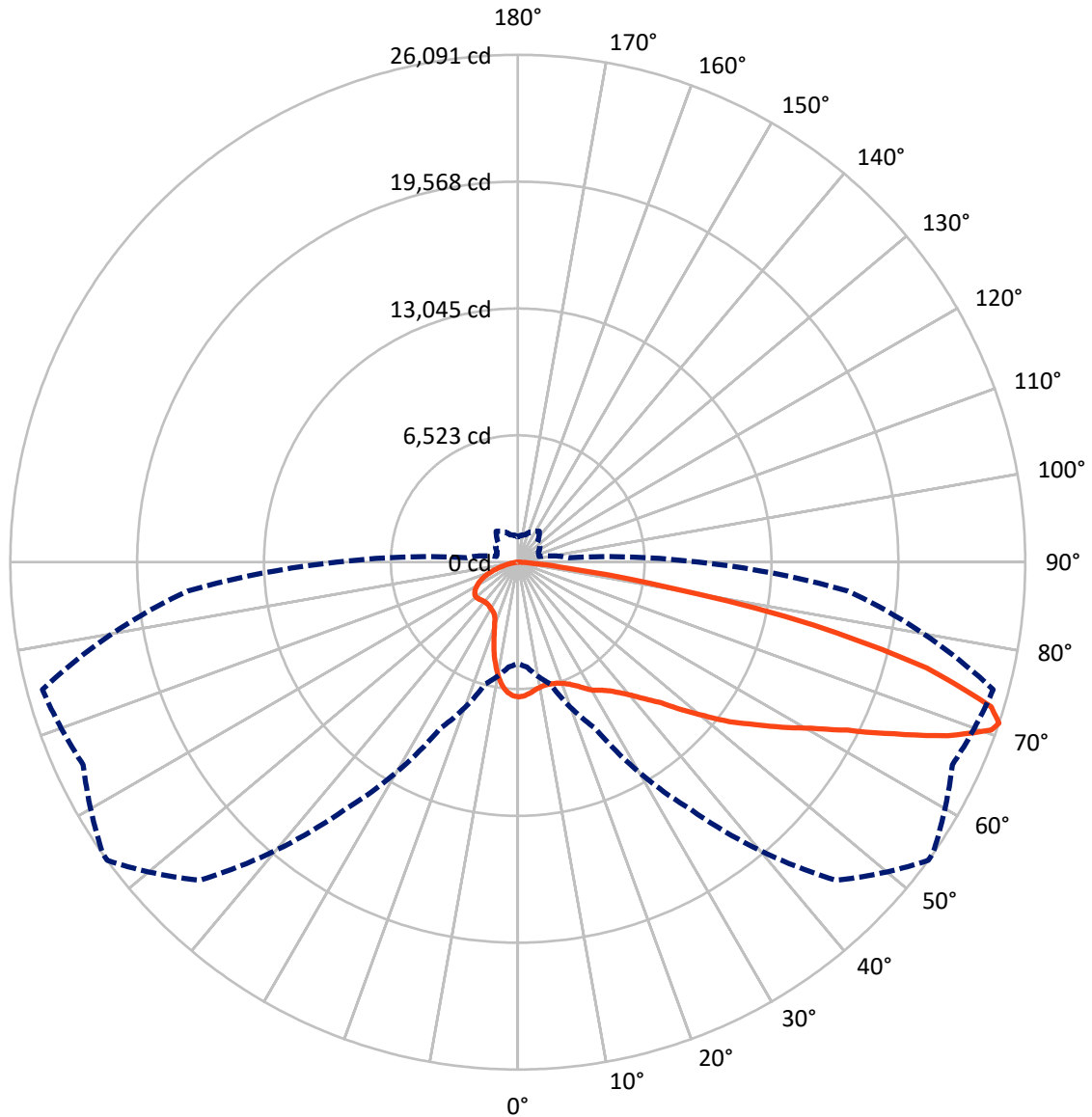
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7014.7	0.0	7014.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	31838.3	0.0	31838.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	38853.0	0.0	38853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.7	1.6
10°-20°	1631.1	4.2
20°-30°	2715.9	7.0
30°-40°	4016.0	10.3
40°-50°	5656.6	14.6
50°-60°	7574.5	19.5
60°-70°	9547.0	24.6
70°-80°	6520.6	16.8
80°-90°	573.4	1.5
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°	38853.0	100.0
0°-180°	38853.0	100.0

Coefficient of Utilization



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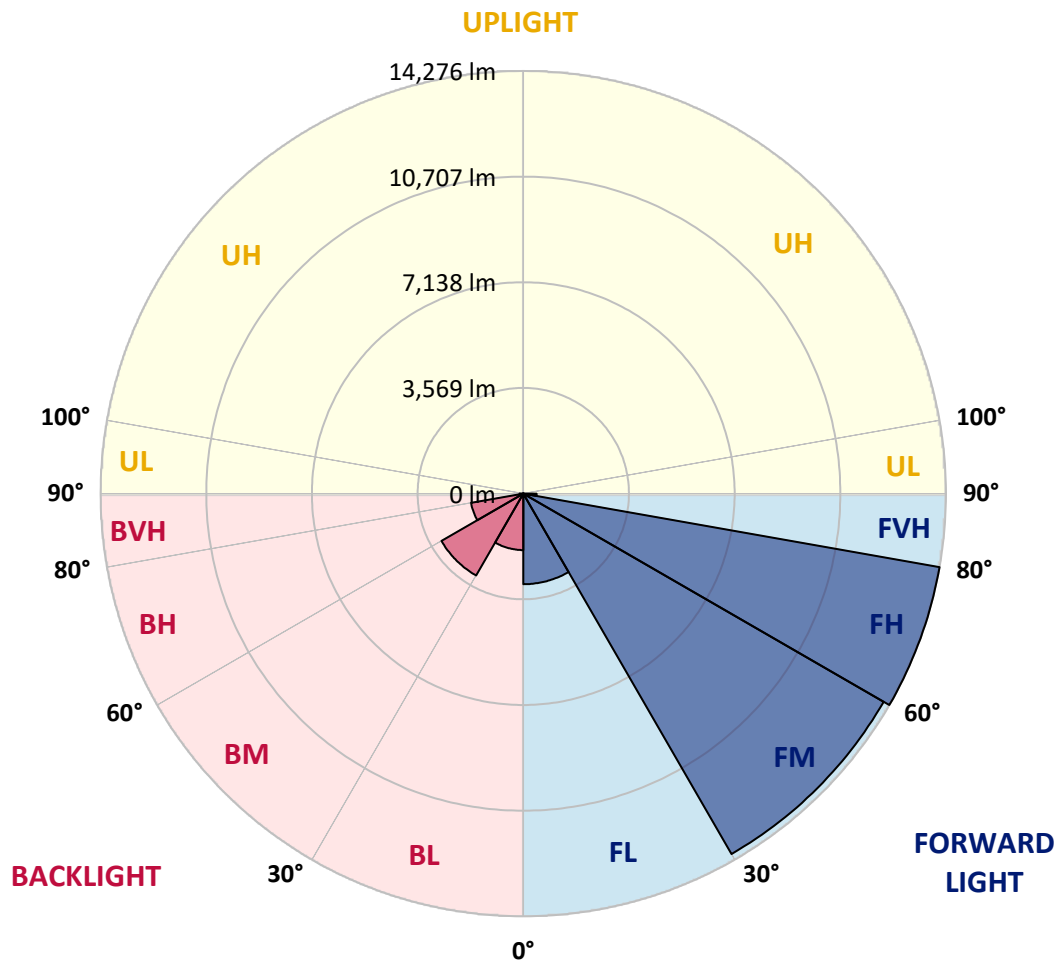
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3058.4	7.9			
FM	(30°-60°)	14055.6	36.2			
FH	(60°-80°)	14276.1	36.7			G5
FVH	(80°-90°)	448.2	1.2			G3/500
BL	(0°-30°)	1906.5	4.9	B3/2500		
BM	(30°-60°)	3191.5	8.2	B3/5000		
BH	(60°-80°)	1791.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	125.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0
2.5°	6696.9	6728.4	6736.8	6757.8	6801.8	6837.5	6873.2	6869.0	6919.4	6940.3	6959.2
5°	6398.9	6407.3	6438.8	6480.7	6558.4	6657.0	6753.6	6755.7	6879.5	6978.1	7026.4
7.5°	6180.6	6207.9	6228.9	6273.0	6354.8	6461.8	6615.0	6627.6	6848.0	7043.2	7146.0
10°	6037.9	6069.4	6092.5	6147.0	6228.9	6348.5	6514.3	6537.4	6824.9	7146.0	7326.5
12.5°	5907.8	5939.3	5960.3	6031.6	6138.6	6285.6	6472.3	6499.6	6833.3	7265.6	7523.8
15°	5987.5	6012.7	6004.3	6025.3	6096.7	6264.6	6489.1	6516.4	6864.8	7381.1	7719.0
17.5°	6342.2	6363.2	6294.0	6214.2	6180.6	6304.4	6541.6	6571.0	6927.8	7500.7	7918.3
20°	6864.8	6921.5	6770.4	6592.0	6430.4	6447.2	6650.7	6682.2	7015.9	7620.3	8121.9
22.5°	7544.8	7586.7	7402.1	7108.2	6810.2	6657.0	6814.4	6833.3	7148.1	7775.6	8344.4
25°	8344.4	8369.5	8113.5	7735.7	7305.5	7015.9	7039.0	7072.6	7366.4	7951.9	8541.6
27.5°	9120.9	9200.6	8904.7	8443.0	7876.4	7393.7	7347.5	7368.5	7603.5	8050.5	8678.1
30°	10042.2	10035.9	9723.2	9188.0	8461.9	7805.0	7639.2	7635.0	7731.5	8098.8	8776.7
32.5°	10776.7	10862.8	10556.4	9972.9	9131.4	8231.0	7840.7	7832.3	7830.2	8182.8	8923.6
35°	11612.0	11624.6	11343.4	10755.8	9855.4	8766.2	8121.9	8079.9	8031.7	8363.3	9123.0
37.5°	12359.1	12417.9	12159.8	11500.8	10566.9	9322.4	8508.1	8480.8	8333.9	8676.0	9442.0
40°	12942.6	12986.7	12831.3	12203.8	11267.8	9922.6	8999.2	8948.8	8770.4	9188.0	9868.0
42.5°	13133.6	13223.8	13284.7	12976.2	12073.7	10634.0	9603.6	9540.6	9404.2	9964.5	10359.1
45°	13148.3	13291.0	13612.1	13626.7	12883.8	11486.1	10308.7	10264.7	10254.2	10959.3	11049.6
47.5°	13037.0	13181.8	13721.2	14012.9	13605.8	12346.6	11326.6	11257.3	11263.6	12189.2	11824.0
50°	12768.4	12940.5	13595.3	14260.6	14170.3	13240.6	12401.1	12378.0	12508.2	13593.2	12627.8
52.5°	12262.6	12470.4	13465.2	14415.9	14590.0	14010.8	13622.6	13557.5	13887.0	15116.8	13507.1
55°	10862.8	11175.5	12988.8	14501.9	14988.8	14747.4	14722.3	14839.8	15276.3	16779.0	14474.6
57.5°	10132.4	10367.5	11954.1	14516.6	15492.5	15603.7	16006.7	16036.0	16800.0	18544.0	15568.0
60°	9733.7	9941.5	11387.5	14420.1	16195.5	16663.5	17320.4	17425.4	18287.9	20455.9	16701.3
62.5°	9385.3	9563.7	11047.5	14086.4	16988.8	18235.5	19022.5	19072.8	19977.4	22567.1	17819.9
65°	8564.7	8768.3	10363.3	13752.7	17673.0	20199.8	21280.6	21221.9	21775.9	24388.8	18520.9
67.5°	7458.7	7716.9	9085.2	12600.5	18010.9	22346.8	23824.3	23750.8	23551.4	25582.9	18722.4
70°	6046.3	6184.8	7450.3	10608.8	16661.4	23473.8	25832.7	25755.0	24651.1	25740.3	17769.6
71°	5202.6	5418.8	6487.0	9423.1	15538.7	23129.6	26090.8	26069.8	24653.2	25305.9	17051.8
72.5°	4061.0	4193.2	5137.6	7301.3	13207.0	21173.6	25452.8	25532.6	24118.1	24099.2	15572.2
75°	2568.8	2627.6	3223.6	4298.1	7246.8	14995.1	21727.7	21943.8	21415.0	19725.5	11580.5
77.5°	1492.2	1567.7	1930.8	2533.1	3131.2	8138.7	15547.0	15782.1	14879.7	10860.7	4740.9
80°	868.9	952.8	1271.8	1471.2	1437.6	3020.0	7916.2	8317.1	6443.0	2743.0	1330.6
82.5°	482.7	539.4	894.0	896.1	766.0	986.4	2491.1	2606.6	1838.4	1106.0	543.6
85°	350.5	396.7	577.1	522.6	367.3	423.9	866.8	908.7	742.9	465.9	176.3
87.5°	123.8	176.3	316.9	251.8	100.7	88.1	249.7	203.6	188.9	130.1	39.9
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°	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0	6932.0
2.5°	6969.7	6973.9	6952.9	6915.2	6877.4	6829.1	6774.5	6732.6	6713.7	6711.6	6709.5
5°	7045.3	7055.8	6976.0	6858.5	6728.4	6568.9	6432.5	6277.2	6237.3	6174.3	6193.2
7.5°	7167.0	7160.7	7003.3	6753.6	6449.3	6111.4	5825.9	5660.1	5488.1	5439.8	5441.9
10°	7341.2	7301.3	7003.3	6539.5	6031.6	5530.0	5131.3	4879.4	4743.0	4629.7	4587.7
12.5°	7525.9	7425.1	6936.1	6239.4	5494.4	4879.4	4451.3	4111.3	4023.2	3930.8	3932.9
15°	7702.2	7534.3	6803.9	5817.5	4915.1	4184.8	3769.2	3565.7	3538.4	3548.9	3546.8
17.5°	7861.7	7611.9	6602.5	5347.4	4239.3	3588.7	3368.4	3383.1	3456.5	3509.0	3515.3
20°	8023.3	7658.1	6302.3	4717.8	3601.3	3227.8	3236.2	3351.6	3462.8	3534.2	3544.7
22.5°	8176.5	7679.1	5949.8	4109.2	3139.6	3074.6	3198.4	3322.2	3431.3	3500.6	3511.1
25°	8277.2	7630.8	5450.3	3473.3	2913.0	3020.0	3150.1	3255.1	3347.4	3418.8	3435.5
27.5°	8304.5	7475.5	4831.2	2959.1	2808.0	2967.5	3087.2	3164.8	3236.2	3303.3	3315.9
30°	8289.8	7246.8	4151.2	2656.9	2747.2	2906.7	2999.0	3055.7	3141.7	3194.2	3204.7
32.5°	8266.7	6980.2	3441.8	2495.3	2696.8	2850.0	2904.6	2954.9	2952.8	2931.9	2946.6
35°	8275.1	6661.2	2866.8	2398.8	2652.7	2808.0	2854.2	2791.2	2610.8	2602.4	2594.0
37.5°	8319.2	6346.4	2449.2	2331.6	2629.7	2801.7	2826.9	2537.3	2377.8	2304.4	2285.5
40°	8432.5	5979.1	2174.2	2281.3	2627.6	2850.0	2703.1	2409.3	2102.9	1960.2	1949.7
42.5°	8583.6	5618.2	2006.3	2249.8	2652.7	2923.5	2652.7	2228.8	1895.1	1811.2	1798.6
45°	8808.2	5204.7	1914.0	2235.1	2690.5	2950.7	2635.9	2096.6	1811.2	1744.0	1744.0
47.5°	9062.1	4810.2	1863.6	2224.6	2738.8	2931.9	2486.9	2054.6	1771.3	1779.7	1819.6
50°	9314.0	4468.1	1825.9	2201.5	2780.8	2921.4	2426.1	2052.5	1781.8	1888.8	1960.2
52.5°	9605.7	4226.7	1779.7	2163.7	2780.8	2854.2	2407.2	2094.5	1811.2	1842.6	1874.1
55°	9958.3	4151.2	1720.9	2081.9	2730.4	2686.3	2396.7	2155.3	1832.2	1758.7	1771.3
57.5°	10424.2	4272.9	1664.3	1979.1	2615.0	2512.1	2392.5	2172.1	1783.9	1723.0	1710.4
60°	10965.6	4514.3	1647.5	1874.1	2457.6	2363.1	2367.3	2123.9	1716.7	1653.8	1664.3
62.5°	11345.5	4659.1	1637.0	1794.4	2285.5	2199.4	2306.5	2065.1	1687.3	1632.8	1643.3
65°	11345.5	4482.8	1540.4	1672.7	2063.0	2002.1	2233.0	1991.7	1649.6	1586.6	1576.1
67.5°	10915.3	3968.6	1393.5	1490.1	1817.5	1777.6	2130.2	1903.5	1592.9	1544.6	1519.4
70°	9794.6	3009.5	1208.8	1276.0	1506.9	1542.5	1997.9	1783.9	1498.5	1439.7	1401.9
71°	9301.4	2621.3	1131.2	1166.9	1387.2	1439.7	1935.0	1733.5	1456.5	1372.5	1305.4
72.5°	8350.7	2207.8	1013.7	1028.4	1185.8	1280.2	1802.8	1637.0	1376.7	1257.1	1181.6
75°	6344.3	1611.8	816.4	808.0	877.2	1015.8	1525.7	1458.6	1206.7	1045.1	1001.1
77.5°	2740.9	877.2	610.7	617.0	596.0	770.2	1200.4	1252.9	1034.7	850.0	810.1
80°	831.1	505.8	417.6	426.0	398.7	516.3	845.8	982.2	831.1	661.1	606.5
82.5°	426.0	302.2	285.4	281.2	253.9	291.7	512.1	671.6	593.9	413.4	365.2
85°	184.7	161.6	140.6	136.4	119.6	104.9	182.6	335.8	314.8	230.9	220.4
87.5°	46.2	42.0	27.3	25.2	14.7	2.1	0.0	0.0	0.0	0.0	0.0
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)