

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: P457186

Luminaire Tested: **GALN-SA8C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51608 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

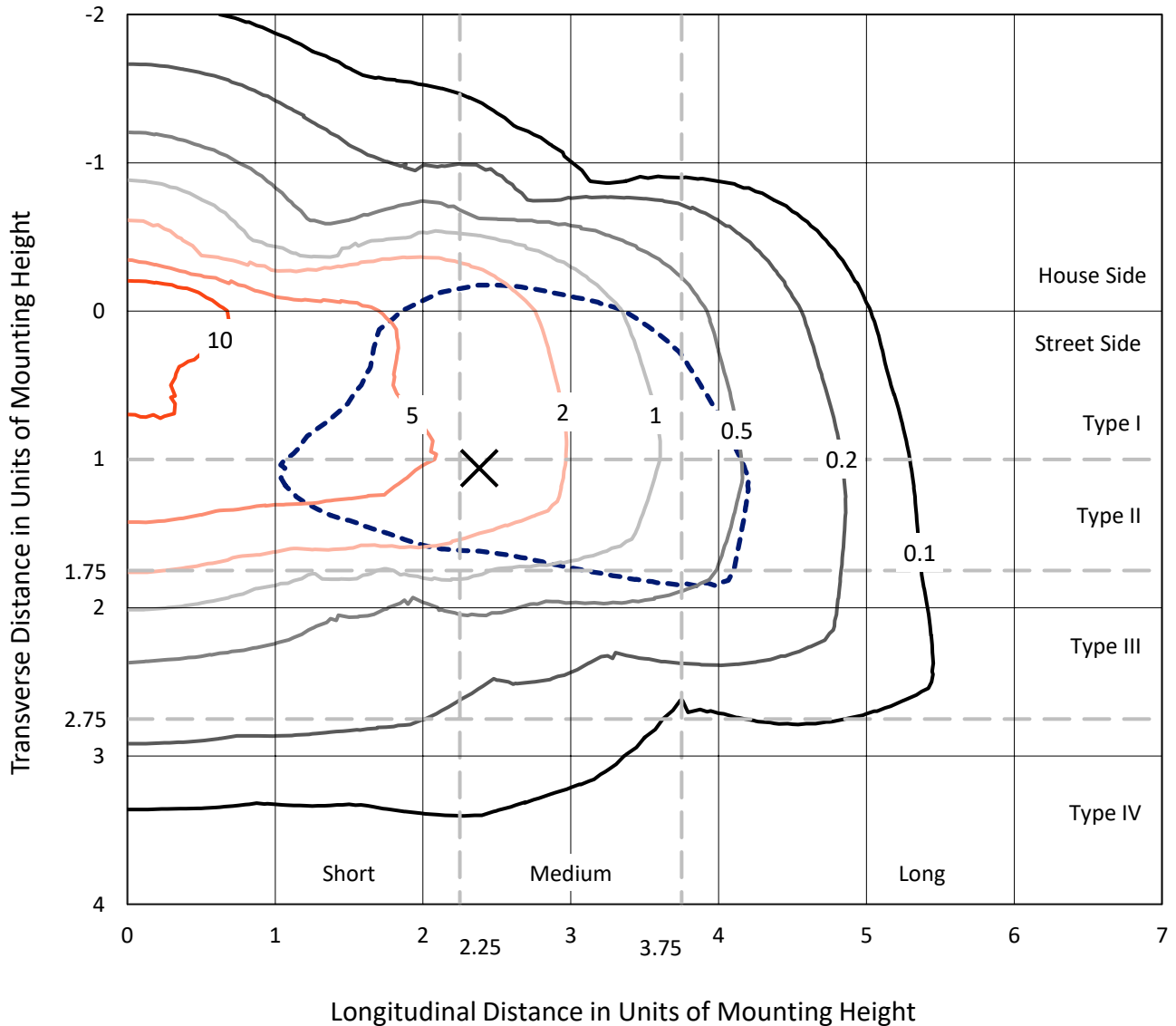
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457186
 CATALOG NUMBER: GALN-SA8C-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

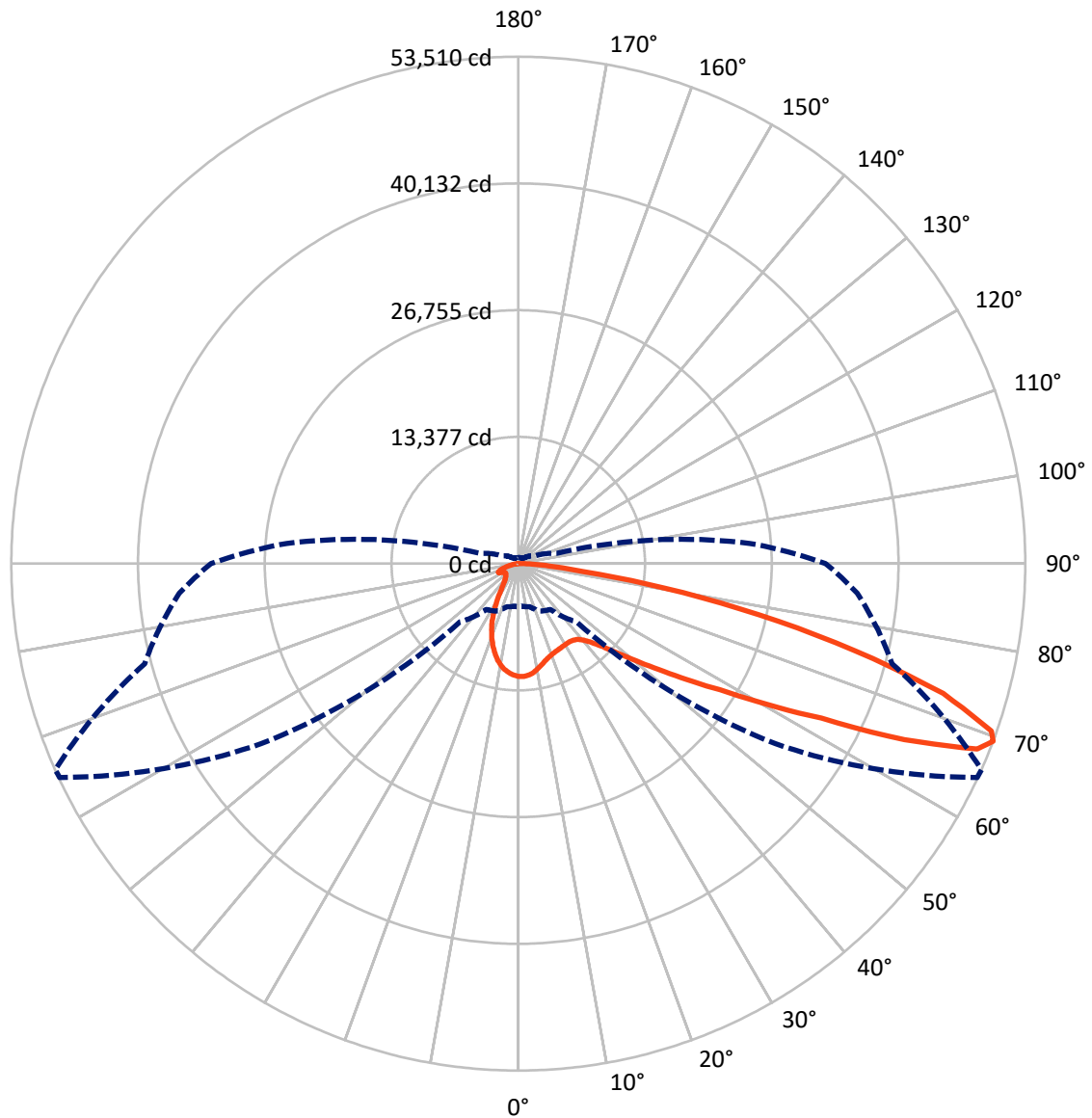
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P457186
CATALOG NUMBER: GALN-SA8C-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P457186

CATALOG NUMBER: GALN-SA8C-730-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9705.5	0.0	9705.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41902.5	0.0	41902.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	51608.0	0.0	51608.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.9	2.0
10°-20°	2454.7	4.8
20°-30°	3341.8	6.5
30°-40°	4490.7	8.7
40°-50°	6705.3	13.0
50°-60°	10666.0	20.7
60°-70°	13118.5	25.4
70°-80°	8535.5	16.5
80°-90°	1260.4	2.4
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°	51608.0	100.0
0°-180°	51608.0	100.0



REPORT NUMBER: P457186

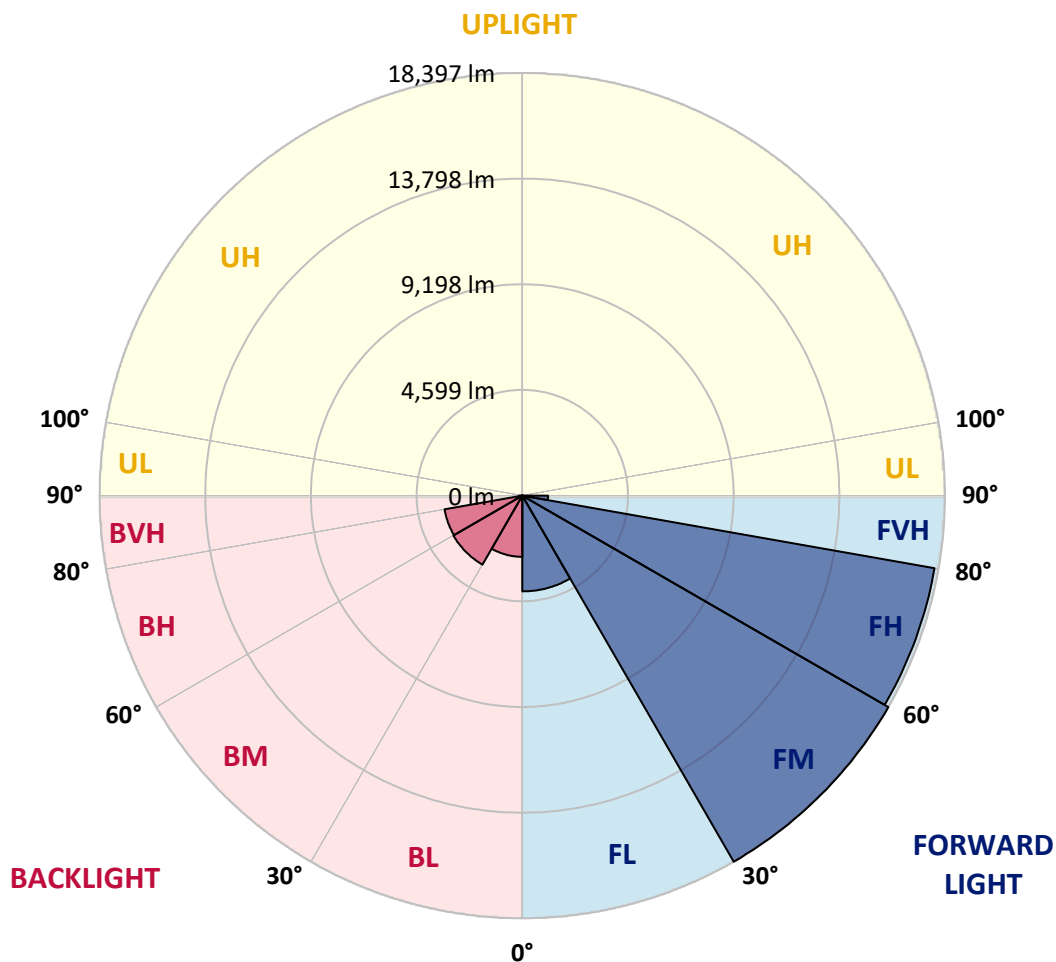
CATALOG NUMBER: GALN-SA8C-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4167.3	8.1			
FM	(30°-60°)	18396.7	35.6			
FH	(60°-80°)	18217.9	35.3			G5
FVH	(80°-90°)	1120.6	2.2			G5
BL	(0°-30°)	2664.2	5.2	B4/5000		
BM	(30°-60°)	3465.3	6.7	B3/5000		
BH	(60°-80°)	3436.2	6.7	B4/5000		G4/5000
BVH	(80°-90°)	139.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





REPORT NUMBER: P457186

CATALOG NUMBER: GALN-SA8C-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7
2.5°	11500.5	11546.2	11597.6	11654.8	11763.4	11823.4	11866.3	11914.9	11920.6	11946.3	11926.3
5°	10651.6	10705.9	10783.1	10891.7	11054.6	11309.0	11571.9	11786.3	11812.0	11932.0	11966.3
7.5°	9942.9	9974.3	10037.2	10211.5	10443.0	10725.9	11108.9	11543.3	11606.2	11892.0	11992.0
10°	9365.6	9397.0	9471.3	9651.4	9880.0	10234.4	10654.5	11226.1	11277.5	11769.1	11997.7
12.5°	8934.0	8962.6	9042.6	9219.8	9482.7	9814.3	10277.2	10883.1	10957.4	11606.2	11943.4
15°	8605.3	8659.6	8725.4	8871.1	9148.4	9468.4	9917.1	10568.8	10628.8	11434.7	11906.3
17.5°	8465.3	8491.0	8536.7	8671.1	8874.0	9188.4	9639.9	10323.0	10394.4	11314.7	11897.7
20°	8471.0	8496.7	8505.3	8579.6	8725.4	8996.9	9442.7	10128.6	10214.4	11208.9	11912.0
22.5°	8665.4	8668.2	8636.8	8611.1	8668.2	8894.0	9302.7	9982.9	10082.9	11163.2	11923.4
25°	8965.4	9016.9	8971.2	8851.1	8745.4	8854.0	9248.4	9902.9	9997.2	11097.5	11909.1
27.5°	9451.3	9459.9	9422.7	9259.8	8985.4	8905.4	9225.5	9842.8	9922.9	11048.9	11837.7
30°	10102.9	10077.2	10042.9	9862.8	9431.3	9102.6	9274.1	9788.5	9871.4	10977.5	11752.0
32.5°	10763.1	10843.1	10811.7	10600.2	10040.0	9485.6	9431.3	9782.8	9851.4	10923.1	11657.6
35°	11463.3	11500.5	11649.1	11540.5	10966.0	10105.8	9725.7	9871.4	9925.7	10926.0	11591.9
37.5°	12012.0	12112.1	12460.7	12555.0	12014.9	10926.0	10202.9	10122.9	10145.8	11066.0	11617.6
40°	12675.1	12846.6	13295.3	13681.1	13326.7	11992.0	11014.6	10588.8	10617.3	11403.3	11786.3
42.5°	13515.3	13635.4	14238.4	14761.4	14704.2	13401.0	11997.7	11351.8	11366.1	12074.9	12257.8
45°	14498.5	14669.9	15347.3	16133.2	16267.5	14995.8	13418.2	12506.5	12497.9	13118.1	13138.1
47.5°	15756.0	15861.7	16533.3	17390.7	17933.7	16999.2	15141.5	14164.1	14072.6	14638.5	14475.6
50°	16913.4	17079.2	17587.9	18525.3	19877.2	19345.6	17407.9	16313.3	16098.9	16627.7	16353.3
52.5°	17399.3	17573.6	18002.3	19165.5	21543.4	22380.7	20285.8	18876.9	18519.6	18925.5	18825.4
55°	16556.2	16782.0	17182.1	18596.8	22275.0	25881.7	24167.0	21840.6	21580.5	21406.2	21434.8
57.5°	14289.8	14504.2	15044.3	16604.8	21400.5	28422.5	29708.6	25650.3	25092.9	24289.9	24427.0
60°	10877.4	11011.7	11291.8	13020.9	18808.3	29082.7	36001.8	30465.9	30111.5	27162.1	27259.3
62.5°	7725.1	7876.6	8070.9	8934.0	13769.7	27222.1	40928.9	37190.7	35924.6	30137.3	30042.9
65°	6273.2	6170.4	6404.7	6807.7	8079.5	21097.5	42037.8	46524.8	44781.5	34055.5	32746.6
67.5°	5158.6	5050.0	5281.5	5998.9	6144.6	12246.4	38042.4	52583.7	52235.1	38316.8	35493.1
69°	4567.0	4509.9	4712.8	5530.2	5898.8	8696.8	33141.0	53426.8	53509.7	40828.9	35916.1
70°	4115.5	4138.3	4335.5	5293.0	5787.4	7170.6	28325.3	52263.6	52966.7	42083.6	35458.8
72.5°	3029.4	3078.0	3352.4	4384.1	5681.6	6084.6	16856.3	45650.3	46893.5	42157.9	32437.9
75°	2117.8	2094.9	2337.8	3301.0	5367.3	6030.3	9900.0	35304.5	36713.4	36439.1	27256.4
77.5°	1386.1	1423.3	1617.6	2332.1	4515.6	5984.6	6453.3	25047.2	25961.8	24369.9	16121.8
80°	977.4	974.6	1083.2	1591.9	3349.5	5750.2	5284.4	15787.4	15555.9	9577.0	4781.4
82.5°	560.2	600.2	725.9	1120.3	2240.6	5061.5	4861.4	7550.7	6893.4	2729.4	1614.8
85°	311.5	325.8	431.6	677.3	1308.9	3812.5	4244.1	3435.3	3240.9	1140.3	694.5
87.5°	100.0	108.6	180.1	343.0	594.5	1800.5	2403.5	1586.2	1463.3	411.5	280.1
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: P457186
 CATALOG NUMBER: GALN-SA8C-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7	11917.7
2.5°	11934.9	11969.2	11877.7	11789.1	11709.1	11597.6	11497.6	11414.7	11357.6	11349.0	11320.4
5°	11974.9	11977.7	11803.4	11569.0	11340.4	11088.9	10828.8	10643.1	10468.7	10371.6	10323.0
7.5°	12003.5	11977.7	11663.4	11283.3	10843.1	10385.9	9928.6	9562.8	9279.8	9168.4	9211.2
10°	11992.0	11912.0	11451.9	10843.1	10202.9	9519.9	8862.6	8348.1	7876.6	7633.6	7639.3
12.5°	11929.2	11797.7	11137.5	10348.7	9408.4	8493.9	7487.9	6793.4	6247.5	5924.6	5824.5
15°	11874.9	11646.2	10768.8	9677.1	8508.2	7202.1	5976.0	5118.6	4661.3	4407.0	4404.1
17.5°	11817.7	11500.5	10365.8	8965.4	7473.6	5793.1	4507.0	3852.5	3638.2	3663.9	3621.0
20°	11757.7	11329.0	9945.7	8173.8	6213.2	4321.2	3375.3	3109.5	3169.5	3286.7	3303.8
22.5°	11689.1	11146.1	9494.2	7302.1	4887.1	3252.4	2737.9	2697.9	2852.3	3035.2	3060.9
25°	11583.3	10917.4	8925.4	6390.4	3769.7	2620.8	2397.8	2426.4	2577.9	2732.2	2749.4
27.5°	11434.7	10634.5	8351.0	5252.9	2832.2	2249.2	2192.1	2229.2	2303.5	2397.8	2420.7
30°	11234.7	10314.4	7690.8	4269.8	2269.2	2063.5	2040.6	2060.6	2103.5	2143.5	2154.9
32.5°	11034.6	10005.7	7024.9	3269.5	2023.4	1940.6	1917.7	1917.7	1917.7	1923.4	1926.3
35°	10848.8	9714.2	6310.4	2546.4	1894.8	1843.4	1812.0	1777.7	1771.9	1751.9	1751.9
37.5°	10746.0	9448.4	5550.2	2132.0	1800.5	1763.4	1720.5	1663.3	1631.9	1634.8	1629.0
40°	10766.0	9274.1	4858.5	1897.7	1723.4	1683.3	1617.6	1551.9	1531.9	1531.9	1526.2
42.5°	10991.7	9216.9	4195.5	1774.8	1649.0	1603.3	1520.4	1460.4	1449.0	1446.1	1451.8
45°	11511.9	9357.0	3601.0	1694.8	1586.2	1517.6	1434.7	1380.4	1369.0	1369.0	1366.1
47.5°	12526.5	9811.4	3175.2	1643.3	1540.4	1451.8	1366.1	1311.8	1291.8	1286.1	1286.1
50°	14104.1	10797.4	2858.0	1597.6	1483.3	1391.8	1303.2	1240.4	1208.9	1206.1	1203.2
52.5°	16296.1	12335.0	2735.1	1563.3	1420.4	1329.0	1231.8	1171.8	1131.8	1123.2	1117.5
55°	18859.7	14481.3	2903.7	1537.6	1354.7	1257.5	1157.5	1094.6	1057.4	1040.3	1037.4
57.5°	21829.1	17059.2	3543.9	1503.3	1294.7	1180.3	1083.2	1020.3	980.3	960.3	954.6
60°	24495.6	19708.5	4661.3	1483.3	1243.2	1097.5	997.4	940.3	903.1	883.1	880.3
62.5°	27425.0	22235.0	5996.0	1537.6	1220.4	1017.4	917.4	866.0	834.5	814.5	814.5
65°	30554.5	24764.3	6879.1	1720.5	1254.6	954.6	831.7	788.8	760.2	745.9	743.1
67.5°	32663.7	25638.8	5667.3	1909.1	1340.4	886.0	748.8	714.5	697.3	683.1	683.1
69°	32435.1	24532.8	4181.2	1957.7	1366.1	851.7	703.1	677.3	654.5	648.8	643.0
70°	31712.0	23272.4	3503.9	1926.3	1346.1	820.2	674.5	643.0	623.0	617.3	614.5
72.5°	28245.3	20183.0	2609.3	1674.8	1146.0	711.6	597.3	568.7	551.6	543.0	543.0
75°	23466.8	16496.2	2037.7	1331.8	897.4	600.2	511.6	488.7	474.4	468.7	465.8
77.5°	13152.4	9211.2	1463.3	1043.2	680.2	485.9	428.7	408.7	394.4	388.7	388.7
80°	3663.9	2632.2	860.2	688.8	463.0	368.7	340.1	325.8	305.8	291.5	300.1
82.5°	1380.4	1140.3	491.6	414.4	294.4	245.8	237.2	225.8	217.2	197.2	197.2
85°	671.6	554.4	314.4	220.1	162.9	128.6	122.9	117.2	111.5	97.2	100.0
87.5°	231.5	245.8	137.2	80.0	48.6	31.4	25.7	14.3	14.3	14.3	14.3
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)