

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: P459276

Luminaire Tested: **GALN-SA7C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45213 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

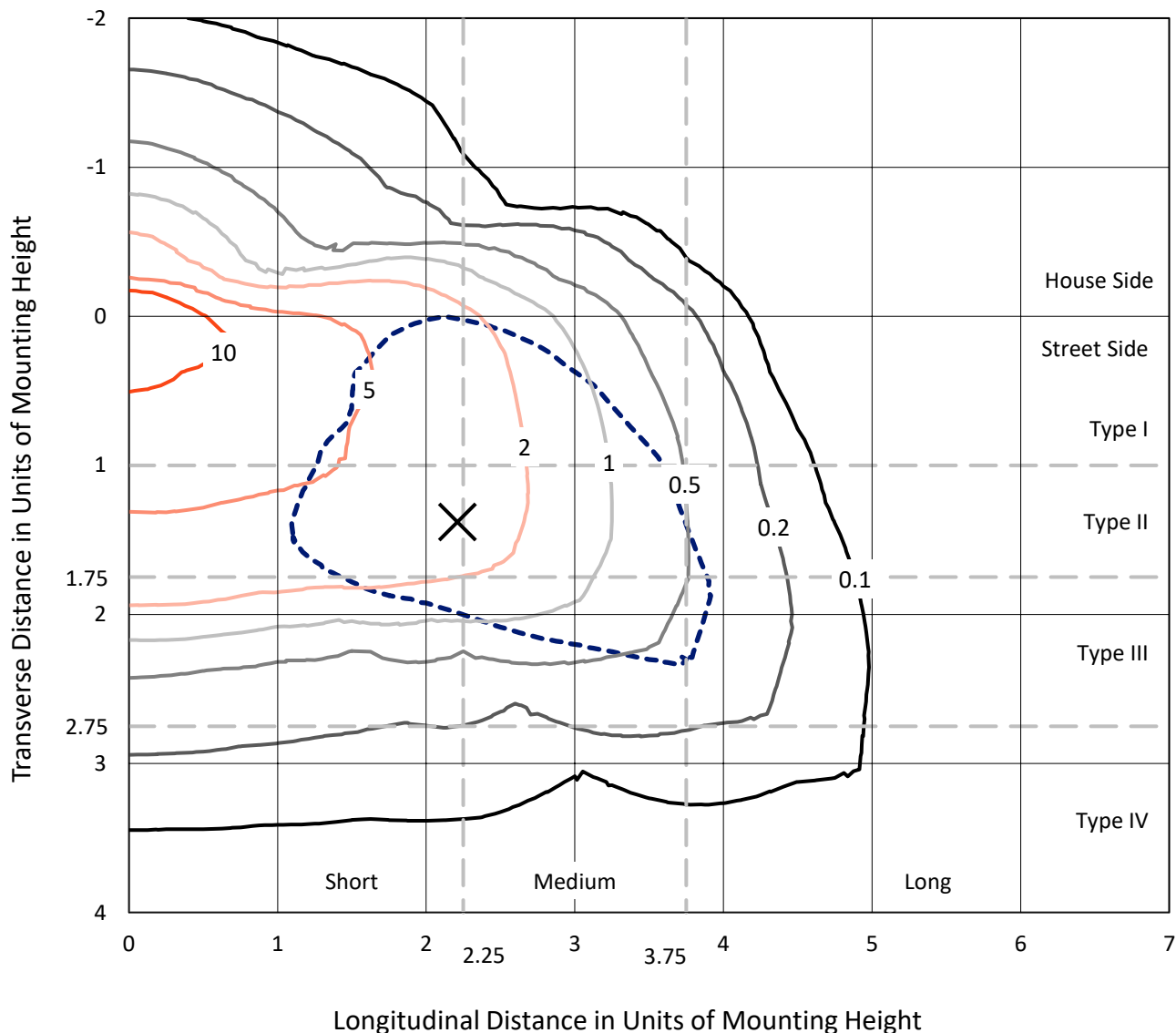
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459276
 CATALOG NUMBER: GALN-SA7C-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

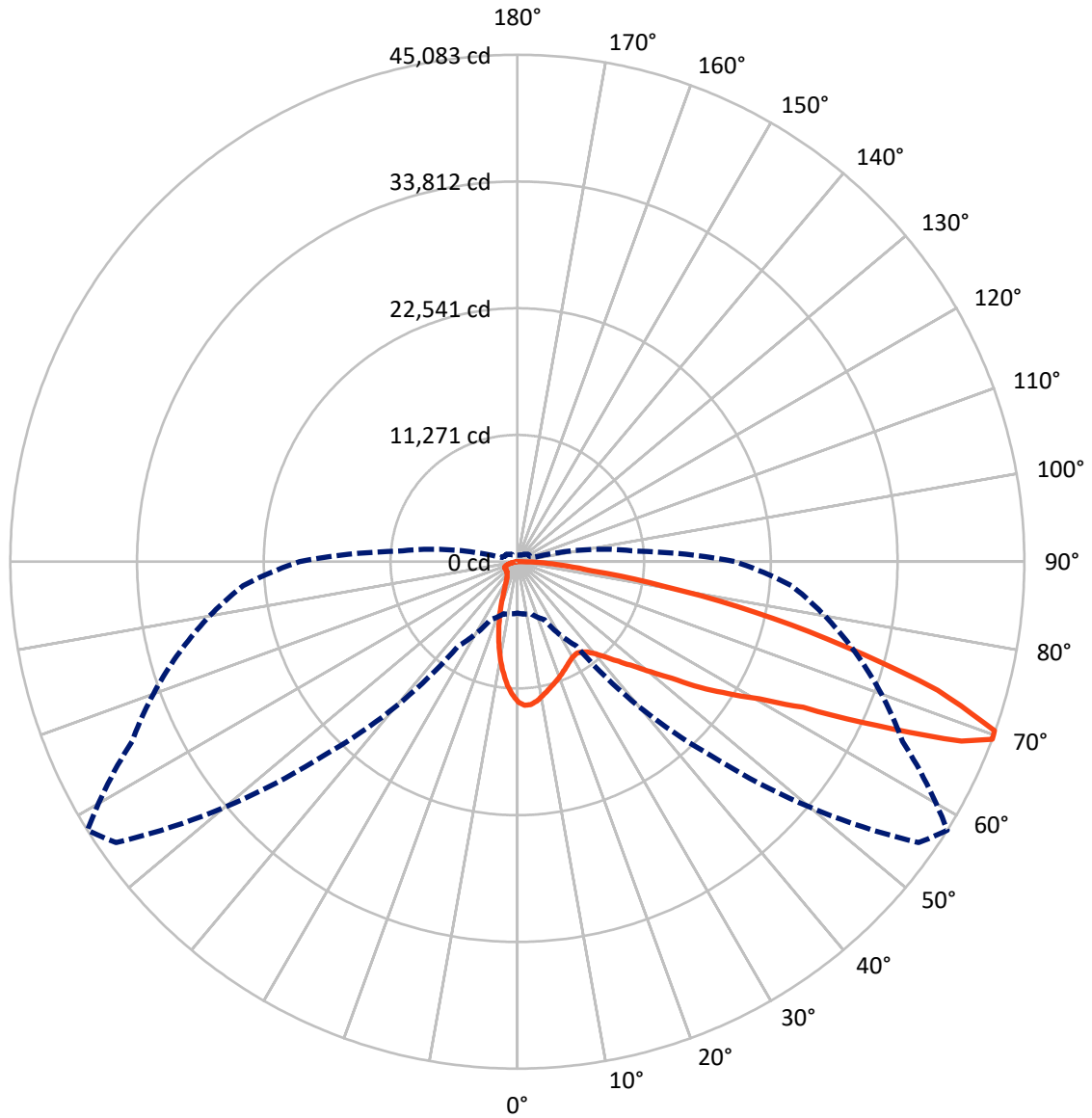
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type III - Short - N/A

REPORT NUMBER: P459276
CATALOG NUMBER: GALN-SA7C-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P459276

CATALOG NUMBER: GALN-SA7C-735-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6626.0	0.0	6626.0
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38587.0	0.0	38587.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	45213.0	0.0	45213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.1	2.3
10°-20°	2329.9	5.2
20°-30°	3010.3	6.7
30°-40°	3909.8	8.6
40°-50°	5684.2	12.6
50°-60°	9070.2	20.1
60°-70°	12116.6	26.8
70°-80°	6984.7	15.4
80°-90°	1046.2	2.3
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°	45213.0	100.0
0°-180°	45213.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459276

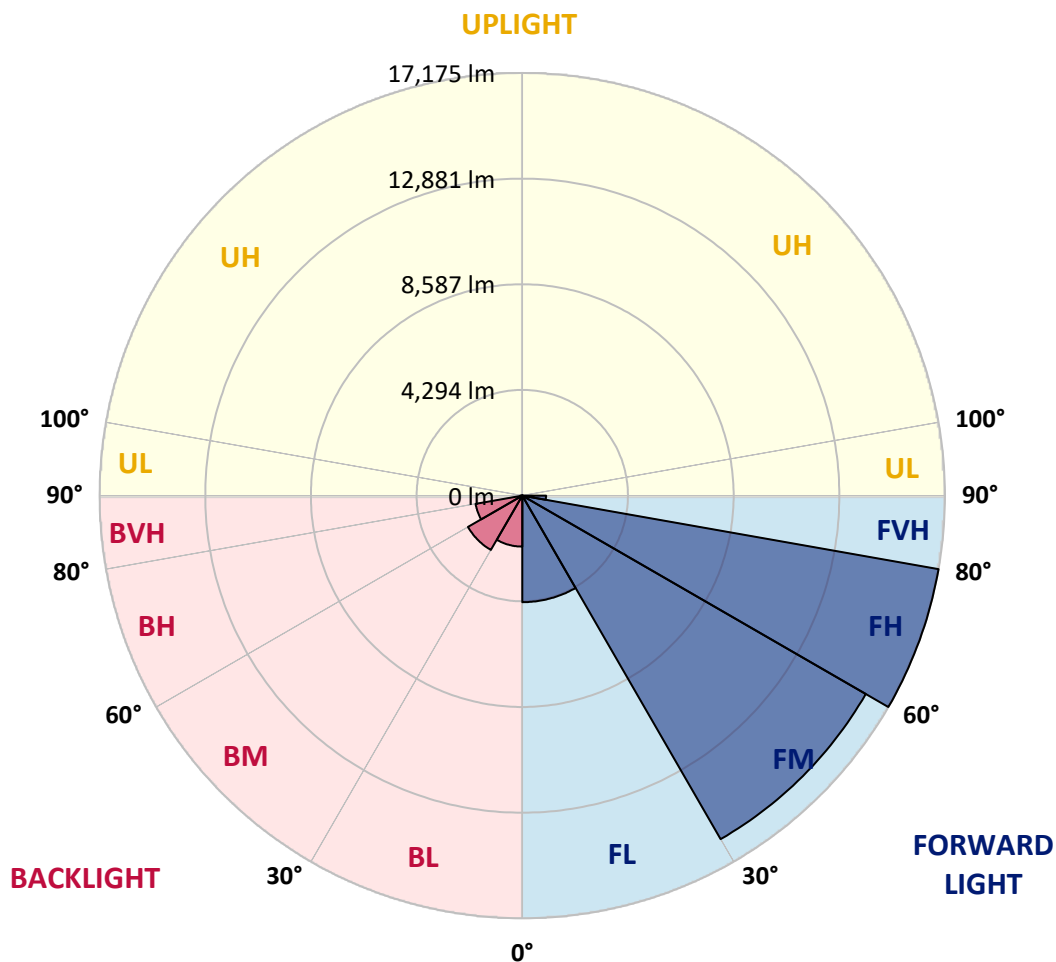
CATALOG NUMBER: GALN-SA7C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4330.3	9.6			
FM	(30°-60°)	16116.1	35.6			
FH	(60°-80°)	17174.7	38.0			G5
FVH	(80°-90°)	966.0	2.1			G5
BL	(0°-30°)	2071.0	4.6	B3/2500		
BM	(30°-60°)	2548.1	5.6	B3/5000		
BH	(60°-80°)	1926.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	80.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P459276

CATALOG NUMBER: GALN-SA7C-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2
2.5°	12958.2	12993.5	12983.4	12970.8	12950.6	12895.2	12804.4	12789.2	12731.3	12607.7	12453.9
5°	12759.0	12789.2	12791.8	12809.4	12834.6	12824.5	12759.0	12751.4	12665.7	12499.3	12242.1
7.5°	12075.7	12116.0	12204.2	12302.6	12390.8	12474.1	12494.2	12506.8	12453.9	12262.2	11919.3
10°	11306.6	11346.9	11387.3	11533.5	11750.4	11957.1	12128.6	12151.3	12163.9	11987.4	11568.8
12.5°	10454.3	10537.5	10623.2	10840.1	11130.1	11455.4	11757.9	11805.8	11891.6	11757.9	11266.2
15°	9730.6	9816.4	9939.9	10134.1	10484.6	10953.6	11379.7	11457.9	11626.8	11558.7	10983.8
17.5°	9228.8	9259.1	9344.8	9566.7	9945.0	10439.2	11009.0	11165.4	11435.2	11417.5	10741.8
20°	8833.0	8870.8	8923.7	9059.9	9453.3	9975.2	10663.6	10865.3	11230.9	11291.5	10502.2
22.5°	8666.5	8694.3	8686.7	8759.8	9027.1	9551.6	10313.1	10552.6	11049.4	11205.7	10280.3
25°	8676.6	8701.8	8664.0	8646.4	8805.2	9178.4	9947.5	10252.6	10903.1	11147.7	10078.6
27.5°	8845.6	8863.2	8792.6	8722.0	8734.6	8946.4	9644.9	9982.8	10779.6	11172.9	9909.6
30°	9072.5	9105.3	9059.9	8974.2	8880.9	8890.9	9450.7	9783.6	10721.6	11261.2	9829.0
32.5°	9365.0	9395.3	9375.1	9307.0	9186.0	9052.3	9402.8	9710.4	10726.6	11440.2	9811.3
35°	9672.6	9733.1	9765.9	9760.9	9662.5	9430.6	9591.9	9846.6	10847.7	11740.3	9914.7
37.5°	10020.6	10071.0	10212.2	10303.0	10212.2	9942.4	10018.1	10194.6	11114.9	12174.0	10141.6
40°	10358.5	10434.1	10640.9	10923.3	10888.0	10651.0	10668.6	10784.6	11586.5	12819.5	10585.4
42.5°	10711.5	10802.3	11162.9	11581.4	11664.6	11480.6	11528.5	11631.9	12257.2	13714.7	11346.9
45°	11165.4	11273.8	11717.6	12239.6	12567.4	12453.9	12590.0	12640.5	13154.9	14879.6	12350.5
47.5°	11750.4	11876.4	12423.6	13074.2	13538.1	13641.5	13878.6	13848.3	14266.9	16258.9	13651.6
50°	12736.3	12806.9	13323.8	13987.0	14624.9	15091.4	15348.6	15396.5	15646.2	17600.3	15106.5
52.5°	13908.8	13971.8	14345.0	14925.0	15724.3	16712.8	17348.2	17191.9	17252.4	19234.3	16808.6
55°	15227.6	15333.5	15570.5	15956.3	16992.7	18447.6	19723.5	19761.3	19090.6	20797.7	18440.0
57.5°	16248.8	16427.8	16833.8	17383.5	18697.2	20376.6	22091.2	22116.4	21259.1	22466.9	20240.4
60°	15734.4	15946.2	16874.1	18213.1	20933.8	23742.8	24920.4	24776.6	23369.6	24368.2	22436.7
62.5°	13515.4	13553.3	14902.3	16995.2	21622.2	28246.3	29131.3	28523.7	26186.2	26778.7	24668.2
65°	8747.2	8994.3	10063.5	12996.0	19360.4	30745.1	36509.4	35104.9	30134.9	29514.6	26536.7
67.5°	5522.2	5459.1	5902.9	7420.9	13316.2	28543.8	42805.6	42583.8	35299.0	31241.9	26090.4
69°	4579.1	4649.7	4801.0	5688.6	9163.3	24370.7	43549.5	45082.6	37802.9	31105.7	24469.0
70°	4153.0	4185.8	4344.6	5043.1	7070.4	20411.9	42329.1	45014.5	38786.3	30535.8	23294.0
72.5°	3295.7	3293.1	3565.5	4195.8	5285.1	11652.0	34756.9	39081.3	37686.9	27883.2	19246.9
75°	2503.9	2544.2	2844.3	3550.3	4869.1	6366.9	24254.7	30097.1	30099.6	22023.1	12010.1
77.5°	1805.4	1830.6	2181.1	2980.5	4586.7	5161.6	16155.5	21586.9	20293.3	10091.2	3774.7
80°	1182.6	1197.7	1465.0	2360.2	4135.3	4869.1	9579.3	13212.9	9571.8	2677.9	1248.2
82.5°	648.0	723.7	895.1	1528.1	3318.3	4498.4	5822.2	6687.1	3590.7	1192.7	650.6
85°	325.3	345.5	504.3	892.6	2168.5	3721.8	4054.6	3835.3	1853.3	592.6	337.9
87.5°	95.8	121.0	209.3	345.5	880.0	1939.1	2256.8	2024.8	713.6	214.3	70.6
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: P459276
 CATALOG NUMBER: GALN-SA7C-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2	12494.2
2.5°	12390.8	12345.5	12143.7	11962.2	11795.8	11619.3	11470.5	11339.4	11352.0	11354.5	11220.8
5°	12108.4	12005.0	11621.8	11263.7	10961.1	10577.9	10250.1	10038.2	9932.3	9791.1	9841.6
7.5°	11725.2	11526.0	10993.9	10398.8	9841.6	9344.8	8805.2	8434.5	8197.5	7968.1	7998.3
10°	11329.3	11009.0	10234.9	9448.2	8727.0	7932.8	7244.4	6654.3	6215.6	6051.7	5943.3
12.5°	10923.3	10502.2	9518.8	8472.4	7476.4	6525.7	5549.9	4917.0	4432.9	4175.7	4208.4
15°	10552.6	10040.8	8772.4	7496.5	6203.0	5070.8	4097.5	3494.9	3157.0	3086.4	3126.7
17.5°	10209.7	9539.0	8074.0	6548.4	5038.0	3802.5	3078.8	2738.4	2602.2	2564.4	2561.9
20°	9856.7	9112.8	7289.8	5534.8	3926.0	2947.7	2526.6	2367.7	2342.5	2357.6	2360.2
22.5°	9498.6	8585.8	6482.9	4528.7	3126.7	2410.6	2208.9	2166.0	2186.2	2221.5	2226.5
25°	9168.3	8121.9	5706.2	3646.1	2496.3	2118.1	2019.8	2019.8	2065.1	2118.1	2120.6
27.5°	8896.0	7673.0	4932.1	2894.7	2090.4	1906.3	1873.5	1891.2	1954.2	1994.5	1997.1
30°	8671.6	7254.5	4200.9	2319.8	1838.2	1737.3	1729.8	1760.0	1805.4	1843.2	1845.8
32.5°	8502.6	6886.3	3517.5	1949.1	1664.2	1608.7	1606.2	1628.9	1654.1	1664.2	1674.3
35°	8437.1	6581.2	2892.2	1714.6	1548.2	1512.9	1512.9	1510.4	1520.5	1525.5	1530.6
37.5°	8490.0	6346.7	2408.1	1563.4	1462.5	1437.3	1422.1	1407.0	1402.0	1402.0	1404.5
40°	8714.4	6223.2	2047.5	1465.0	1402.0	1364.2	1336.4	1318.8	1301.1	1306.2	1311.2
42.5°	9191.0	6245.9	1802.9	1399.5	1349.0	1296.1	1255.7	1235.6	1222.9	1238.1	1235.6
45°	9950.0	6472.8	1646.6	1354.1	1296.1	1228.0	1190.2	1170.0	1170.0	1192.7	1200.3
47.5°	11011.6	6906.5	1563.4	1318.8	1255.7	1175.0	1137.2	1122.1	1127.1	1165.0	1167.5
50°	12307.6	7660.4	1548.2	1301.1	1235.6	1137.2	1094.3	1079.2	1091.8	1132.2	1137.2
52.5°	13737.3	8631.2	1621.3	1303.6	1217.9	1114.5	1059.0	1036.4	1049.0	1081.7	1091.8
55°	15431.8	9846.6	1810.5	1313.7	1192.7	1101.9	1033.8	983.4	998.5	1021.2	1023.7
57.5°	17161.6	11379.7	2143.3	1316.2	1172.5	1079.2	991.0	925.4	925.4	940.5	948.1
60°	19274.6	13049.0	2582.1	1318.8	1175.0	1046.4	933.0	859.8	849.8	857.3	859.8
62.5°	21372.6	14445.9	2655.2	1311.2	1200.3	1013.7	869.9	794.3	776.6	774.1	769.1
65°	22298.0	14186.2	2176.1	1275.9	1228.0	993.5	819.5	731.2	701.0	690.9	690.9
67.5°	20790.1	12000.0	1636.5	1228.0	1210.3	973.3	771.6	678.3	643.0	622.8	622.8
69°	19373.0	10673.7	1470.1	1195.2	1165.0	940.5	741.3	650.6	607.7	585.0	577.4
70°	18278.6	9760.9	1399.5	1167.5	1122.1	902.7	718.6	630.4	582.5	557.3	552.2
72.5°	14587.1	7657.9	1225.5	1061.6	955.7	759.0	637.9	567.3	522.0	494.2	486.7
75°	8406.8	4150.5	1016.2	922.9	769.1	590.0	539.6	494.2	458.9	433.7	426.1
77.5°	2587.1	1603.7	736.3	728.7	564.8	456.4	431.2	413.5	388.3	360.6	355.5
80°	1089.3	817.0	499.3	491.7	375.7	317.7	310.1	307.6	297.5	274.8	267.3
82.5°	597.6	461.4	348.0	302.6	226.9	184.1	191.6	194.2	186.6	163.9	148.8
85°	292.5	252.2	168.9	136.2	103.4	65.6	63.0	75.6	70.6	50.4	55.5
87.5°	58.0	70.6	45.4	20.2	10.1	0.0	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)