

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: P459249

Luminaire Tested: **GALN-SA7B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36139 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

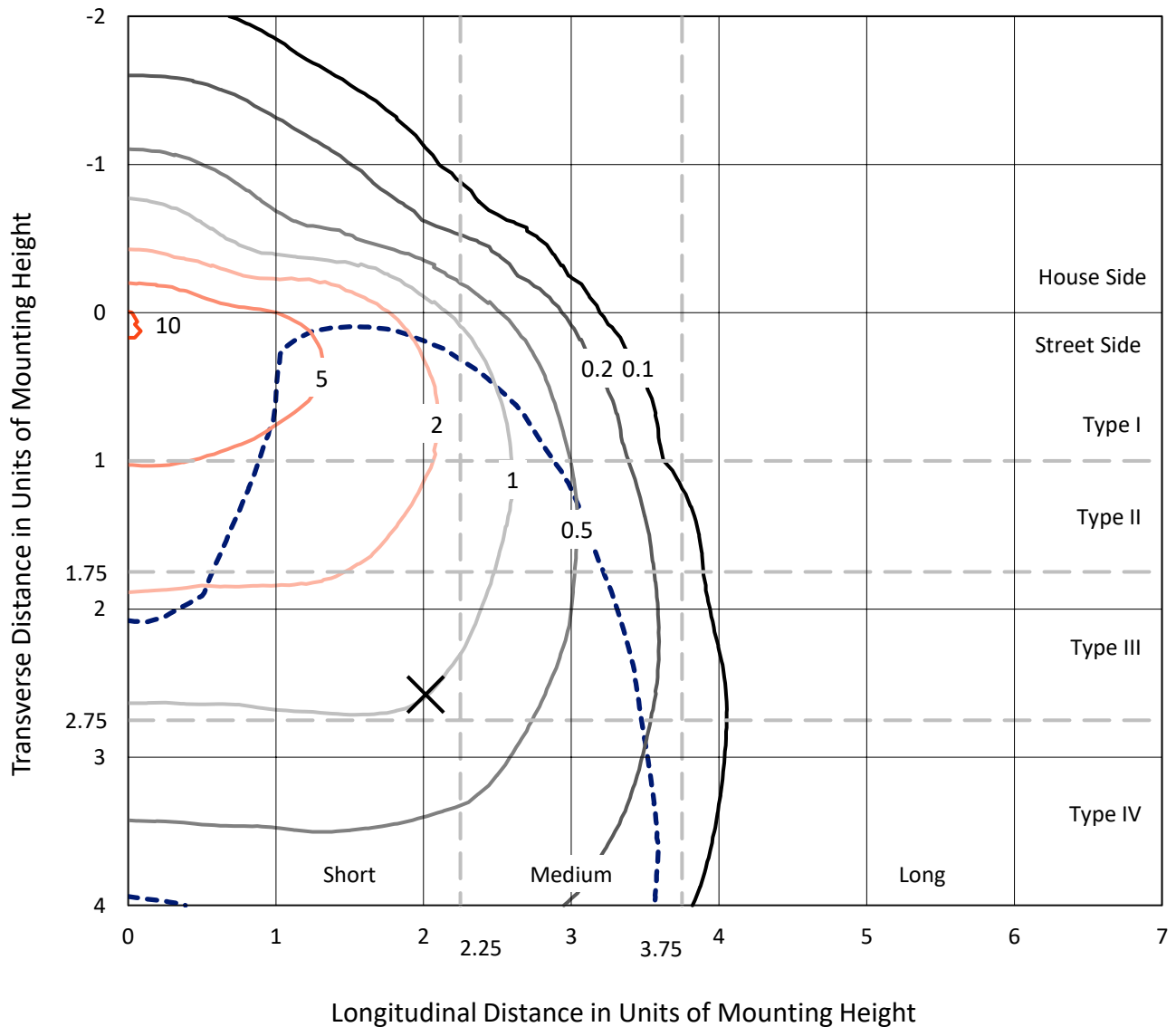
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459249
 CATALOG NUMBER: GALN-SA7B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

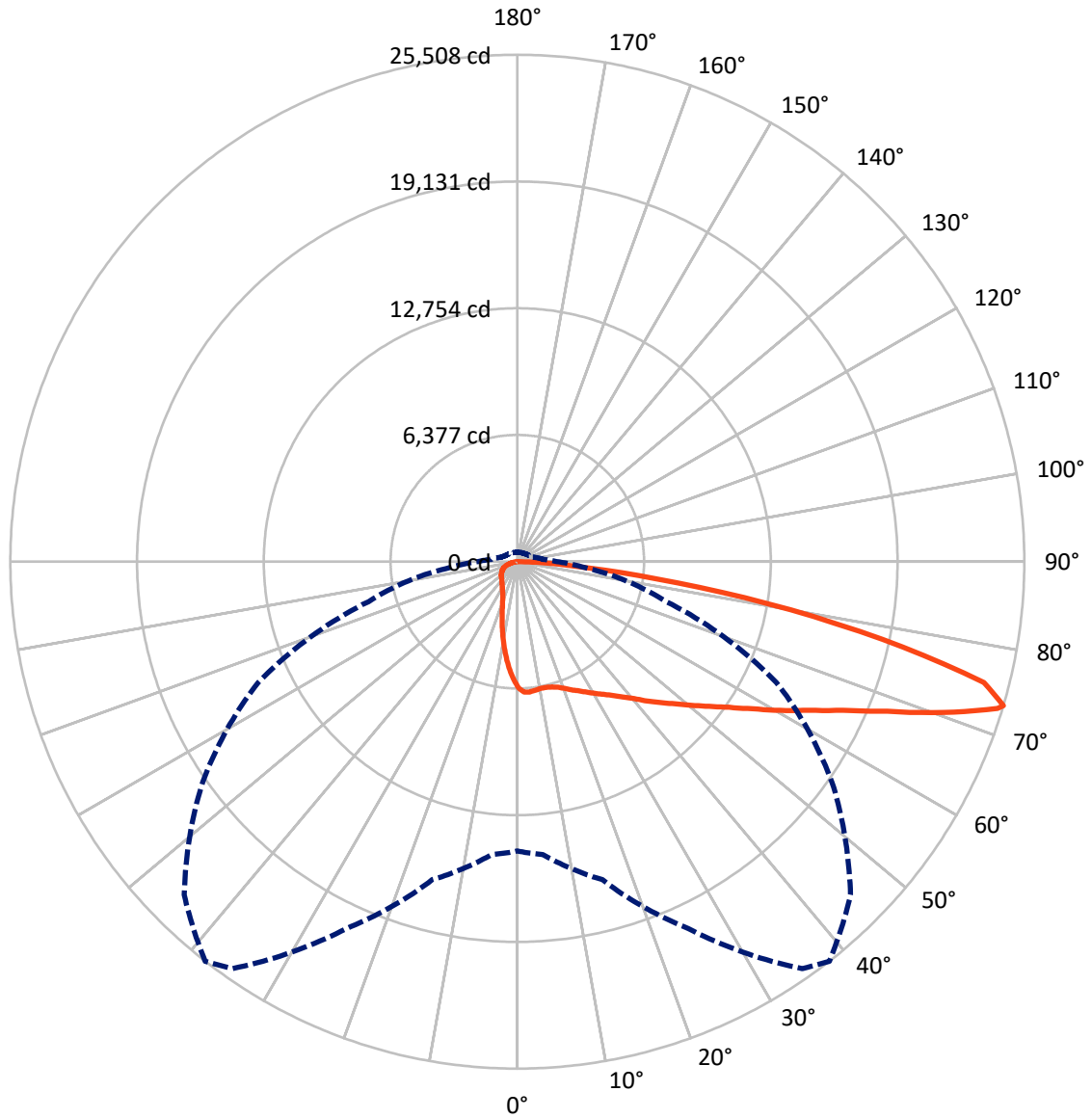
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P459249
CATALOG NUMBER: GALN-SA7B-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P459249

CATALOG NUMBER: GALN-SA7B-735-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4858.1	0.0	4858.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31280.8	0.0	31280.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	36139.0	0.0	36139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.2	1.5
10°-20°	1421.1	3.9
20°-30°	2213.0	6.1
30°-40°	3246.0	9.0
40°-50°	4815.0	13.3
50°-60°	6821.9	18.9
60°-70°	8653.8	23.9
70°-80°	7203.6	19.9
80°-90°	1210.3	3.3
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°	36139.0	100.0
0°-180°	36139.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459249

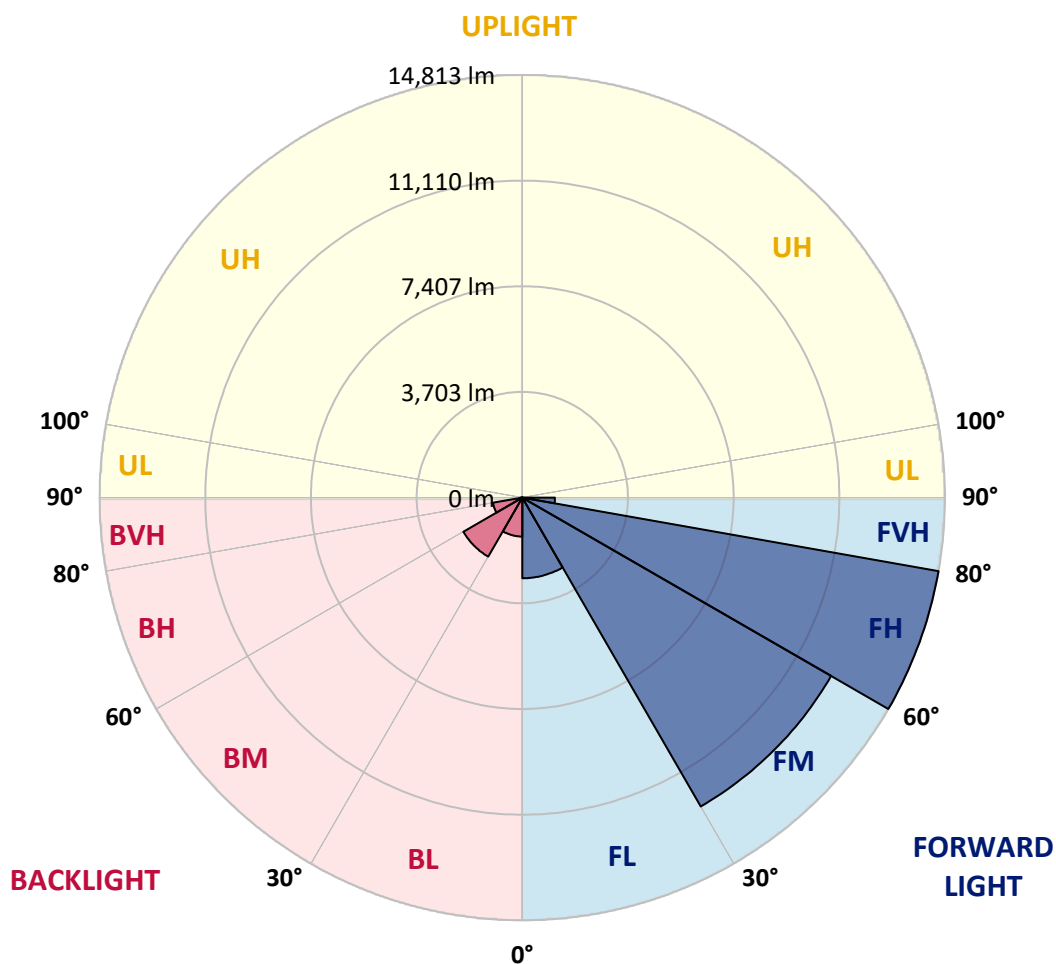
CATALOG NUMBER: GALN-SA7B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.1	7.8			
FM	(30°-60°)	12497.8	34.6			
FH	(60°-80°)	14813.2	41.0			G5
FVH	(80°-90°)	1144.7	3.2			G5
BL	(0°-30°)	1363.2	3.8	B3/2500		
BM	(30°-60°)	2385.1	6.6	B2/2500		
BH	(60°-80°)	1044.2	2.9	B3/2500		G3/2500
BVH	(80°-90°)	65.6	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 IV Short





REPORT NUMBER: P459249

CATALOG NUMBER: GALN-SA7B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0
2.5°	6604.1	6636.8	6620.4	6598.0	6583.7	6569.4	6549.0	6489.8	6442.9	6391.9	6312.3
5°	6653.1	6673.5	6659.2	6630.6	6598.0	6583.7	6544.9	6467.4	6391.9	6306.2	6187.8
7.5°	6624.5	6632.7	6616.4	6581.7	6553.1	6526.6	6481.7	6395.9	6304.1	6200.0	6044.9
10°	6522.5	6553.1	6553.1	6524.5	6495.9	6481.7	6436.8	6355.1	6271.5	6153.1	5969.4
12.5°	6438.8	6471.5	6498.0	6489.8	6487.8	6487.8	6453.1	6391.9	6293.9	6181.7	5963.3
15°	6381.7	6420.4	6477.6	6510.2	6530.6	6536.8	6522.5	6469.4	6369.4	6238.8	5987.8
17.5°	6369.4	6416.4	6520.4	6591.9	6644.9	6642.9	6638.8	6565.3	6455.1	6320.4	6018.4
20°	6424.5	6485.7	6630.6	6742.9	6820.4	6806.2	6783.7	6687.8	6559.2	6408.2	6047.0
22.5°	6589.8	6653.1	6812.3	6934.7	7010.2	7010.2	6942.9	6816.4	6679.6	6510.2	6085.7
25°	6826.6	6896.0	7065.3	7189.8	7224.5	7198.0	7130.6	6977.6	6820.4	6657.2	6167.4
27.5°	7116.4	7200.0	7357.2	7461.3	7451.1	7430.6	7361.3	7165.3	7008.2	6859.2	6306.2
30°	7477.6	7538.8	7702.1	7726.6	7689.8	7685.8	7587.8	7391.9	7244.9	7130.6	6504.1
32.5°	7818.4	7873.5	8004.1	8014.3	7949.0	7957.2	7865.3	7685.8	7602.1	7561.3	6836.8
35°	8179.6	8208.2	8320.4	8308.2	8265.3	8259.2	8222.5	8051.1	8077.6	8151.1	7308.2
37.5°	8481.7	8538.8	8602.1	8612.3	8610.2	8630.7	8655.1	8573.5	8726.6	8957.2	7926.6
40°	8759.2	8808.2	8902.1	8934.7	9014.3	9055.1	9138.8	9140.9	9493.9	9873.5	8687.8
42.5°	8947.0	9030.7	9206.2	9265.4	9459.2	9581.7	9706.2	9838.8	10351.1	10838.8	9585.8
45°	9110.2	9220.5	9512.3	9696.0	9959.2	10108.2	10371.5	10649.0	11385.8	12024.5	10498.0
47.5°	9357.2	9455.1	9789.8	10114.3	10512.3	10683.7	11077.6	11491.9	12455.2	13155.2	11371.5
50°	9700.0	9759.2	10100.0	10628.6	11136.8	11357.2	11877.6	12475.6	13598.0	14271.5	12138.8
52.5°	10138.8	10163.3	10434.7	11138.8	11808.2	12081.7	12771.5	13469.5	14598.0	15240.9	12747.0
55°	10657.2	10616.4	10828.6	11679.6	12575.6	12932.7	13673.5	14475.6	15722.5	16024.6	13189.9
57.5°	11169.4	11106.2	11275.6	12336.8	13522.5	13953.1	14816.4	15512.3	16726.6	16757.2	13500.1
60°	11712.3	11665.4	11867.4	13108.2	14683.7	15193.9	15991.9	16587.8	17698.0	17267.4	13549.0
62.5°	12269.4	12193.9	12481.7	13975.6	15991.9	16455.2	17228.7	17730.7	18651.1	17457.2	13077.6
65°	12810.3	12775.6	13220.5	15006.2	17481.7	18008.2	18759.3	19100.1	19414.4	17171.5	11908.2
67.5°	13385.8	13455.2	14165.4	16381.7	19424.6	20085.8	20896.0	20575.6	19632.7	15818.4	10028.6
70°	14263.3	14308.2	15406.2	18183.8	21928.7	22726.6	23118.5	21100.1	18579.7	13249.0	7538.8
72.5°	14640.9	14838.8	16514.4	20075.6	24773.6	25261.3	23865.4	19930.7	15477.6	9000.0	3961.2
73°	14557.2	14793.9	16565.4	20363.4	24996.0	25508.3	23706.2	19328.7	14387.8	7751.1	3395.9
75°	13514.4	13806.2	15902.1	20122.5	24563.4	24257.3	21147.0	16473.5	9722.5	3524.5	1546.9
77.5°	10663.3	10747.0	12600.1	16249.1	19342.9	18775.6	15826.6	10296.0	3971.4	1310.2	877.6
80°	5349.0	5657.2	7102.1	9308.2	12934.8	12749.0	9989.8	4869.4	1655.1	769.4	581.6
82.5°	2573.5	2791.9	3459.2	4538.8	7147.0	6977.6	4947.0	2661.2	1051.0	449.0	342.9
85°	1657.2	1820.4	2202.1	2165.3	2938.8	2806.1	2222.5	2014.3	622.5	234.7	238.8
87.5°	1093.9	1198.0	1436.7	1149.0	1069.4	967.4	981.6	1134.7	122.4	89.8	32.7
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: P459249
 CATALOG NUMBER: GALN-SA7B-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0	6349.0
2.5°	6279.6	6253.1	6165.3	6079.6	5998.0	5920.4	5869.4	5802.1	5757.2	5769.4	5787.8
5°	6122.5	6063.3	5908.2	5757.2	5614.3	5444.9	5308.2	5198.0	5114.3	5083.7	5077.6
7.5°	5957.2	5857.2	5634.7	5375.5	5132.7	4922.5	4679.6	4559.2	4418.4	4369.4	4353.1
10°	5857.2	5722.5	5410.2	5049.0	4683.7	4334.7	4071.4	3857.2	3663.3	3626.5	3608.2
12.5°	5828.6	5651.0	5230.6	4765.3	4279.6	3851.0	3461.2	3179.6	2991.9	2949.0	2885.7
15°	5812.3	5591.9	5063.3	4479.6	3863.3	3340.8	2930.6	2602.1	2430.6	2316.3	2318.4
17.5°	5798.0	5524.5	4875.5	4167.4	3504.1	2902.1	2449.0	2153.1	1995.9	1934.7	1928.6
20°	5777.6	5444.9	4659.2	3838.8	3093.9	2502.1	2091.8	1871.4	1765.3	1714.3	1712.3
22.5°	5769.4	5367.4	4447.0	3504.1	2730.6	2193.9	1855.1	1700.0	1632.7	1598.0	1598.0
25°	5789.8	5312.3	4224.5	3185.7	2408.2	1930.6	1691.8	1585.7	1546.9	1528.6	1522.5
27.5°	5853.1	5287.8	4004.1	2867.4	2112.3	1751.0	1581.6	1508.2	1479.6	1465.3	1467.4
30°	5973.5	5285.7	3787.8	2553.1	1891.8	1614.3	1493.9	1442.9	1420.4	1412.3	1410.2
32.5°	6167.4	5330.6	3575.5	2293.9	1706.1	1500.0	1412.3	1375.5	1365.3	1359.2	1357.1
35°	6495.9	5457.2	3365.3	2057.2	1563.3	1398.0	1334.7	1316.3	1302.0	1308.2	1310.2
37.5°	6938.8	5675.5	3165.3	1871.4	1455.1	1322.5	1269.4	1253.1	1244.9	1251.0	1257.1
40°	7532.7	5989.8	2998.0	1722.5	1377.6	1259.2	1212.3	1198.0	1189.8	1200.0	1202.0
42.5°	8187.8	6353.1	2859.2	1606.1	1314.3	1206.1	1161.2	1144.9	1138.8	1144.9	1146.9
45°	8861.3	6775.5	2787.8	1522.5	1261.2	1167.4	1120.4	1102.0	1087.8	1083.7	1089.8
47.5°	9524.5	7142.9	2785.7	1471.4	1218.4	1132.7	1081.6	1061.2	1042.9	1032.7	1030.6
50°	10065.4	7434.7	2834.7	1449.0	1181.6	1093.9	1042.9	1022.5	998.0	977.6	981.6
52.5°	10473.5	7624.5	2857.2	1438.8	1161.2	1053.1	1002.0	983.7	955.1	928.6	928.6
55°	10736.8	7669.4	2802.1	1428.6	1144.9	1010.2	955.1	938.8	910.2	883.7	883.7
57.5°	10826.6	7530.6	2604.1	1404.1	1128.6	973.5	908.2	893.9	871.4	844.9	840.8
60°	10618.4	7061.3	2257.2	1330.6	1095.9	934.7	857.1	851.0	842.9	820.4	818.4
62.5°	9816.4	6065.3	1879.6	1234.7	1040.8	893.9	810.2	820.4	826.5	814.3	812.2
65°	8481.7	4924.5	1606.1	1102.0	967.4	836.7	759.2	785.7	802.0	802.0	798.0
67.5°	6879.6	3781.7	1353.1	987.8	875.5	759.2	702.0	722.5	734.7	730.6	740.8
70°	4889.8	2561.2	1102.0	857.1	759.2	671.4	628.6	628.6	620.4	616.3	616.3
72.5°	2371.4	1463.3	893.9	716.3	646.9	573.5	538.8	524.5	508.2	506.1	495.9
73°	1981.6	1312.3	853.1	689.8	620.4	559.2	520.4	498.0	487.8	479.6	477.6
75°	1206.1	995.9	712.2	581.6	528.6	481.6	446.9	426.5	416.3	410.2	408.2
77.5°	793.9	742.9	553.1	444.9	404.1	375.5	361.2	340.8	334.7	326.5	326.5
80°	591.8	567.3	395.9	314.3	289.8	265.3	261.2	257.1	240.8	230.6	226.5
82.5°	381.6	404.1	269.4	210.2	183.7	163.3	165.3	171.4	155.1	140.8	136.7
85°	271.4	291.8	163.3	95.9	77.6	67.3	75.5	67.3	69.4	55.1	44.9
87.5°	44.9	77.6	28.6	12.2	6.1	4.1	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)