

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: P456465

Luminaire Tested: **GALN-SA7D-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456465
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-SA7D-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA 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: 44108 lumens
Efficiency: N/A
Efficacy: 101.9 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

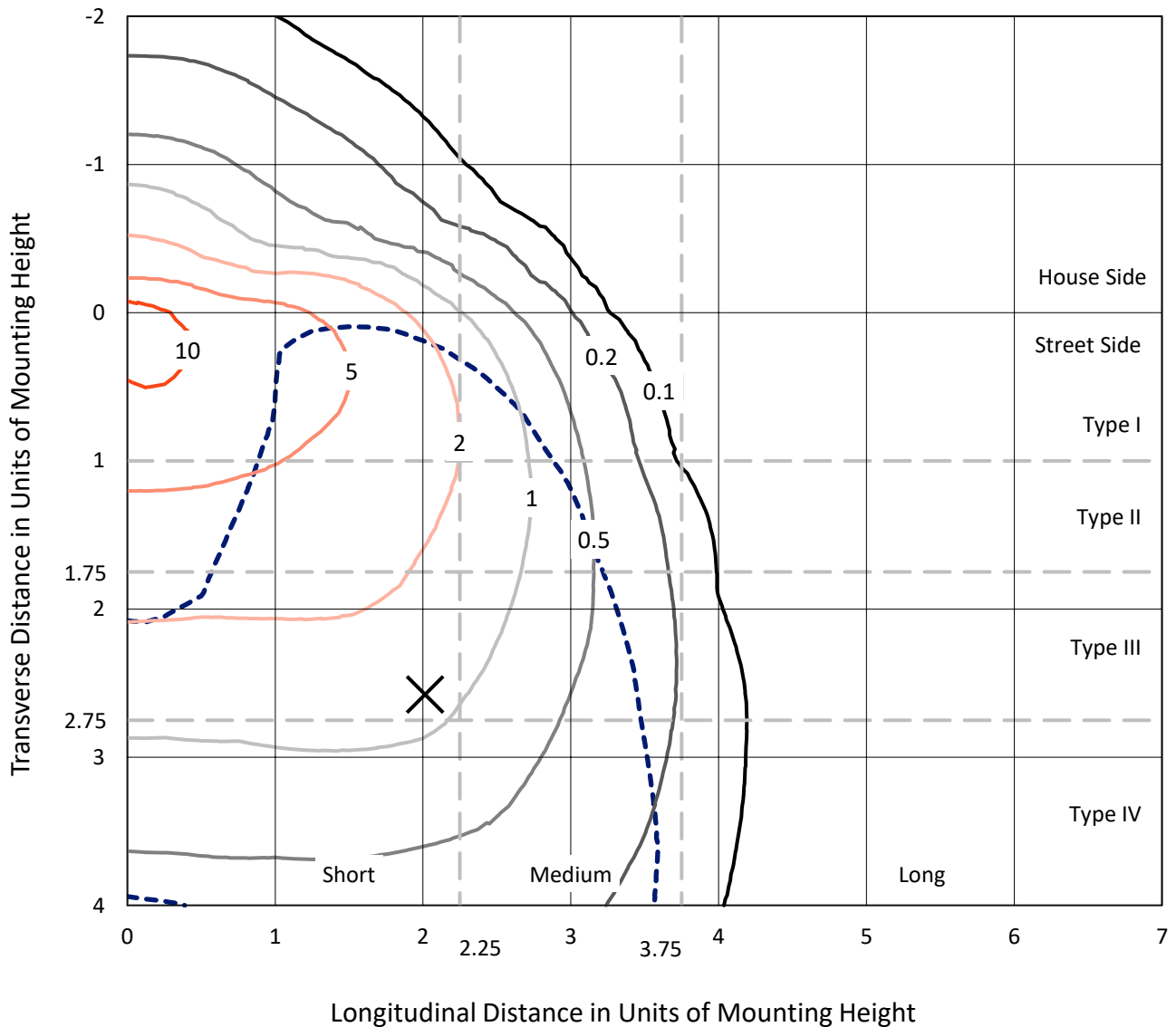
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456465
 CATALOG NUMBER: GALN-SA7D-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

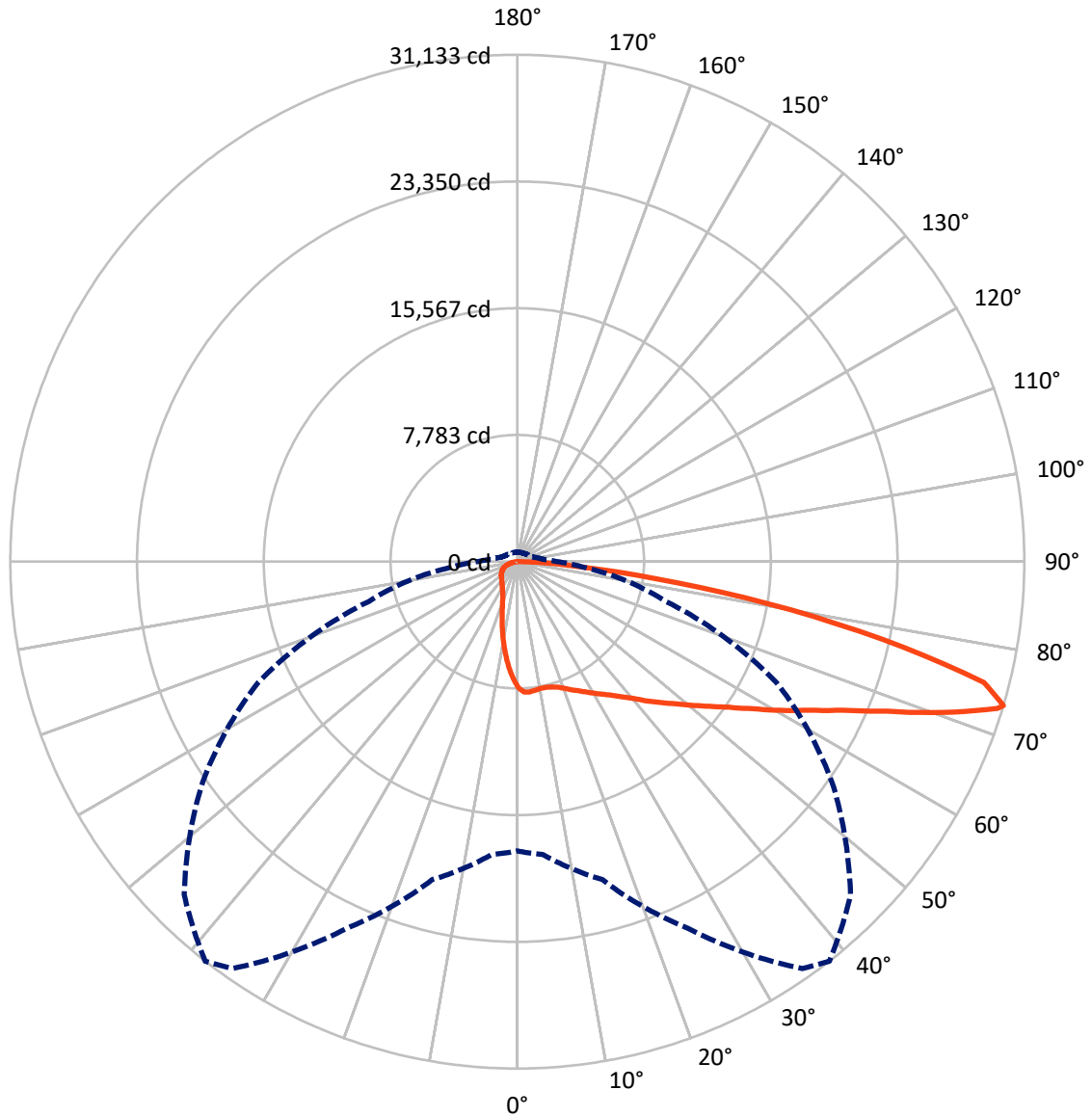
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P456465
CATALOG NUMBER: GALN-SA7D-727-U-SL4

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5929.4	0.0	5929.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	38178.6	0.0	38178.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	44108.0	0.0	44108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	676.4	1.5
10°-20°	1734.5	3.9
20°-30°	2701.0	6.1
30°-40°	3961.7	9.0
40°-50°	5876.8	13.3
50°-60°	8326.2	18.9
60°-70°	10562.1	23.9
70°-80°	8792.1	19.9
80°-90°	1477.2	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°	44108.0	100.0
0°-180°	44108.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456465

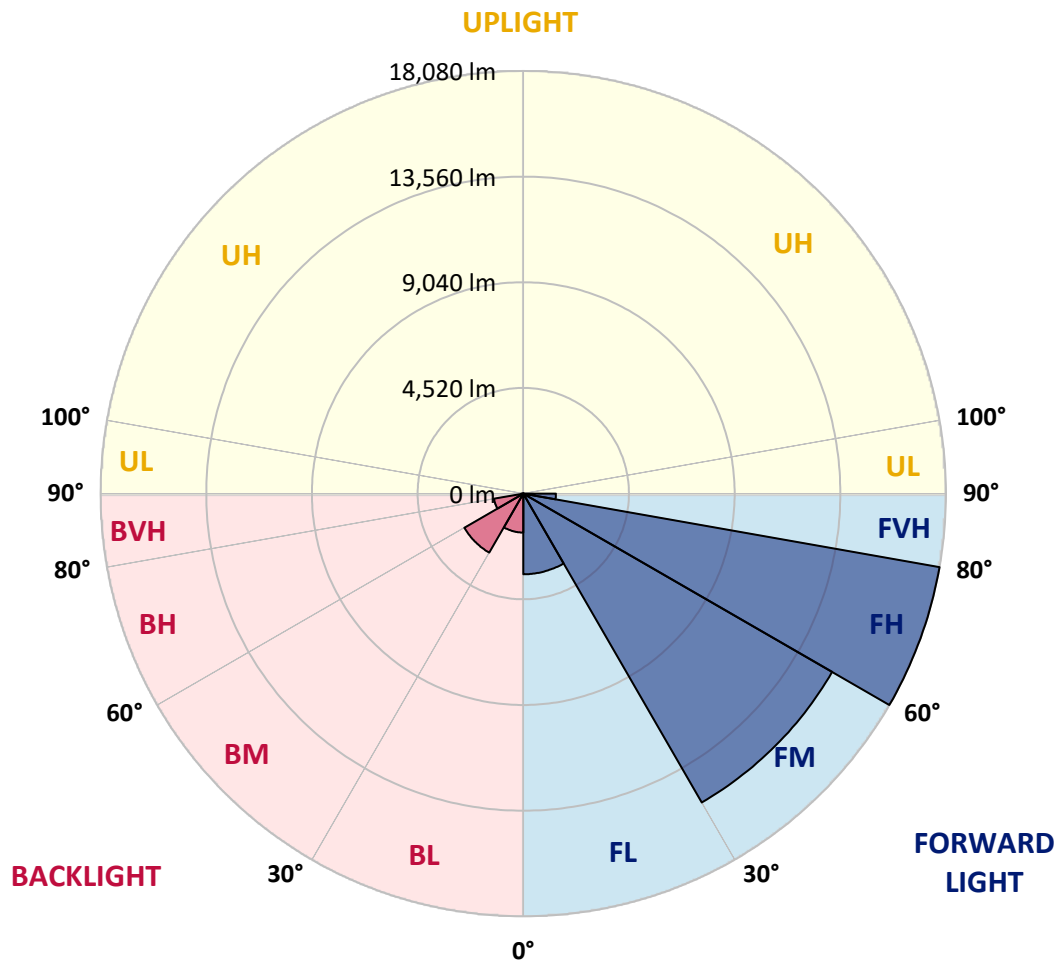
CATALOG NUMBER: GALN-SA7D-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3448.1	7.8			
FM	(30°-60°)	15253.7	34.6			
FH	(60°-80°)	18079.7	41.0			G5
FVH	(80°-90°)	1397.1	3.2			G5
BL	(0°-30°)	1663.9	3.8	B3/2500		
BM	(30°-60°)	2911.0	6.6	B3/5000		
BH	(60°-80°)	1274.5	2.9	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 IV Short





REPORT NUMBER: P456465

CATALOG NUMBER: GALN-SA7D-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0
2.5°	8060.4	8100.2	8080.3	8052.9	8035.5	8018.0	7993.1	7920.9	7863.6	7801.3	7704.2
5°	8120.2	8145.1	8127.6	8092.8	8052.9	8035.5	7988.1	7893.5	7801.3	7696.7	7552.3
7.5°	8085.3	8095.3	8075.3	8033.0	7998.1	7965.7	7910.9	7806.3	7694.2	7567.2	7377.9
10°	7960.8	7998.1	7998.1	7963.2	7928.4	7910.9	7856.1	7756.5	7654.4	7509.9	7285.7
12.5°	7858.6	7898.5	7930.9	7920.9	7918.4	7918.4	7876.1	7801.3	7681.8	7544.8	7278.3
15°	7788.9	7836.2	7906.0	7945.8	7970.7	7978.2	7960.8	7896.0	7773.9	7614.5	7308.1
17.5°	7773.9	7831.2	7958.3	8045.4	8110.2	8107.7	8102.7	8013.1	7878.6	7714.2	7345.5
20°	7841.2	7915.9	8092.8	8229.8	8324.4	8307.0	8279.6	8162.5	8005.6	7821.3	7380.4
22.5°	8042.9	8120.2	8314.5	8463.9	8556.1	8556.1	8473.9	8319.4	8152.5	7945.8	7427.7
25°	8331.9	8416.6	8623.3	8775.3	8817.6	8785.2	8703.0	8516.2	8324.4	8125.1	7527.3
27.5°	8685.6	8787.7	8979.5	9106.5	9094.1	9069.2	8984.5	8745.4	8553.6	8371.7	7696.7
30°	9126.5	9201.2	9400.5	9430.4	9385.5	9380.5	9261.0	9021.9	8842.5	8703.0	7938.3
32.5°	9542.4	9609.7	9769.1	9781.6	9701.9	9711.8	9599.7	9380.5	9278.4	9228.6	8344.3
35°	9983.3	10018.2	10155.2	10140.2	10087.9	10080.5	10035.6	9826.4	9858.8	9948.4	8919.7
37.5°	10352.0	10421.7	10498.9	10511.4	10508.9	10533.8	10563.7	10464.1	10650.9	10932.3	9674.5
40°	10690.7	10750.5	10865.1	10904.9	11002.1	11051.9	11154.0	11156.5	11587.4	12050.7	10603.5
42.5°	10919.9	11022.0	11236.2	11308.4	11545.1	11694.5	11846.5	12008.4	12633.6	13228.9	11699.5
45°	11119.1	11253.7	11609.8	11834.0	12155.3	12337.2	12658.5	12997.2	13896.4	14676.1	12812.9
47.5°	11420.5	11540.1	11948.6	12344.6	12830.4	13039.6	13520.3	14026.0	15201.6	16056.0	13879.0
50°	11839.0	11911.2	12327.2	12972.3	13592.6	13861.6	14496.7	15226.6	16596.5	17418.5	14815.6
52.5°	12374.5	12404.4	12735.7	13595.0	14412.0	14745.8	15587.7	16439.6	17817.0	18601.7	15557.8
55°	13007.2	12957.4	13216.4	14255.1	15348.6	15784.5	16688.7	17667.6	19189.5	19558.1	16098.4
57.5°	13632.4	13555.2	13761.9	15057.2	16504.4	17029.9	18083.6	18932.9	20415.0	20452.4	16477.0
60°	14295.0	14237.7	14484.3	15998.7	17921.7	18544.4	19518.3	20245.6	21600.6	21075.1	16536.7
62.5°	14975.0	14882.8	15234.0	17057.3	19518.3	20083.7	21027.7	21640.5	22763.9	21306.7	15961.4
65°	15635.1	15592.7	16135.7	18315.2	21336.6	21979.2	22895.9	23311.8	23695.4	20958.0	14534.1
67.5°	16337.5	16422.2	17289.0	19994.0	23707.9	24514.9	25503.8	25112.7	23962.0	19306.6	12240.0
70°	17408.5	17463.3	18803.4	22193.5	26764.2	27738.1	28216.3	25752.9	22676.7	16170.6	9201.2
72.5°	17869.3	18111.0	20155.9	24502.5	30236.4	30831.7	29128.0	24325.6	18890.6	10984.6	4834.7
73°	17767.2	18056.2	20218.2	24853.7	30507.9	31133.1	28933.7	23590.8	17560.5	9460.2	4144.8
75°	16494.4	16850.6	19408.7	24559.8	29979.8	29606.2	25810.2	20106.1	11866.4	4301.7	1888.1
77.5°	13014.7	13116.8	15378.5	19832.1	23608.3	22915.8	19316.5	12566.3	4847.2	1599.1	1071.1
80°	6528.5	6904.6	8668.2	11360.8	15787.0	15560.3	12192.7	5943.2	2020.1	939.0	709.9
82.5°	3141.0	3407.5	4222.0	5539.6	8722.9	8516.2	6037.8	3248.1	1282.8	548.0	418.5
85°	2022.6	2221.8	2687.6	2642.8	3586.8	3424.9	2712.5	2458.5	759.7	286.4	291.4
87.5°	1335.1	1462.1	1753.6	1402.3	1305.2	1180.7	1198.1	1384.9	149.5	109.6	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



REPORT NUMBER: P456465
 CATALOG NUMBER: GALN-SA7D-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0	7749.0
2.5°	7664.3	7632.0	7524.9	7420.2	7320.6	7225.9	7163.7	7081.5	7026.7	7041.6	7064.0
5°	7472.5	7400.3	7211.0	7026.7	6852.3	6645.6	6478.7	6344.2	6242.1	6204.7	6197.2
7.5°	7270.8	7148.7	6877.2	6560.9	6264.5	6007.9	5711.5	5564.6	5392.7	5332.9	5313.0
10°	7148.7	6984.3	6603.2	6162.4	5716.5	5290.6	4969.2	4707.7	4471.1	4426.2	4403.8
12.5°	7113.9	6897.2	6384.0	5816.1	5223.3	4700.2	4224.5	3880.7	3651.6	3599.3	3522.1
15°	7093.9	6824.9	6179.8	5467.4	4715.2	4077.5	3576.9	3175.8	2966.6	2827.1	2829.6
17.5°	7076.5	6742.7	5950.6	5086.3	4276.8	3542.0	2989.0	2627.8	2436.0	2361.3	2353.9
20°	7051.6	6645.6	5686.6	4685.3	3776.1	3053.8	2553.1	2284.1	2154.6	2092.3	2089.8
22.5°	7041.6	6550.9	5427.6	4276.8	3332.8	2677.7	2264.2	2074.9	1992.7	1950.3	1950.3
25°	7066.5	6483.7	5156.1	3888.2	2939.2	2356.3	2064.9	1935.4	1888.1	1865.6	1858.2
27.5°	7143.8	6453.8	4887.0	3499.6	2578.0	2137.1	1930.4	1840.7	1805.9	1788.4	1790.9
30°	7290.7	6451.3	4623.0	3116.1	2309.0	1970.3	1823.3	1761.0	1733.6	1723.7	1721.2
32.5°	7527.3	6506.1	4364.0	2799.7	2082.3	1830.8	1723.7	1678.8	1666.4	1658.9	1656.4
35°	7928.4	6660.5	4107.4	2510.8	1908.0	1706.2	1629.0	1606.6	1589.2	1596.6	1599.1
37.5°	8468.9	6927.0	3863.3	2284.1	1776.0	1614.1	1549.3	1529.4	1519.4	1526.9	1534.4
40°	9193.7	7310.6	3659.1	2102.3	1681.3	1536.9	1479.6	1462.1	1452.2	1464.6	1467.1
42.5°	9993.3	7754.0	3489.7	1960.3	1604.1	1472.1	1417.3	1397.4	1389.9	1397.4	1399.9
45°	10815.3	8269.6	3402.5	1858.2	1539.3	1424.8	1367.5	1345.1	1327.6	1322.6	1330.1
47.5°	11624.8	8718.0	3400.0	1795.9	1487.0	1382.4	1320.1	1295.2	1272.8	1260.4	1257.9
50°	12284.9	9074.2	3459.8	1768.5	1442.2	1335.1	1272.8	1247.9	1218.0	1193.1	1198.1
52.5°	12783.0	9305.8	3487.2	1756.0	1417.3	1285.3	1223.0	1200.6	1165.7	1133.3	1133.3
55°	13104.4	9360.6	3419.9	1743.6	1397.4	1233.0	1165.7	1145.8	1110.9	1078.5	1078.5
57.5°	13213.9	9191.2	3178.3	1713.7	1377.4	1188.1	1108.4	1091.0	1063.6	1031.2	1026.2
60°	12959.9	8618.3	2754.9	1624.0	1337.6	1140.8	1046.2	1038.7	1028.7	1001.3	998.8
62.5°	11981.0	7402.8	2294.1	1507.0	1270.3	1091.0	988.9	1001.3	1008.8	993.8	991.4
65°	10352.0	6010.4	1960.3	1345.1	1180.7	1021.2	926.6	959.0	978.9	978.9	973.9
67.5°	8396.6	4615.5	1651.4	1205.6	1068.6	926.6	856.9	881.8	896.7	891.7	904.2
70°	5968.1	3126.0	1345.1	1046.2	926.6	819.5	767.2	767.2	757.2	752.2	752.2
72.5°	2894.4	1785.9	1091.0	874.3	789.6	699.9	657.6	640.1	620.2	617.7	605.3
73°	2418.6	1601.6	1041.2	841.9	757.2	682.5	635.2	607.8	595.3	585.3	582.9
75°	1472.1	1215.5	869.3	709.9	645.1	587.8	545.5	520.6	508.1	500.7	498.2
77.5°	968.9	906.7	675.0	543.0	493.2	458.3	440.9	416.0	408.5	398.5	398.5
80°	722.3	692.5	483.2	383.6	353.7	323.8	318.8	313.8	293.9	281.5	276.5
82.5°	465.8	493.2	328.8	256.6	224.2	199.3	201.8	209.2	189.3	171.9	166.9
85°	331.3	356.2	199.3	117.1	94.7	82.2	92.2	82.2	84.7	67.3	54.8
87.5°	54.8	94.7	34.9	14.9	7.5	5.0	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)