

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: P459305

Luminaire Tested: **GALN-SA7D-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459305
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-SA7D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 49750 lumens
Efficiency: N/A
Efficacy: 114.9 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

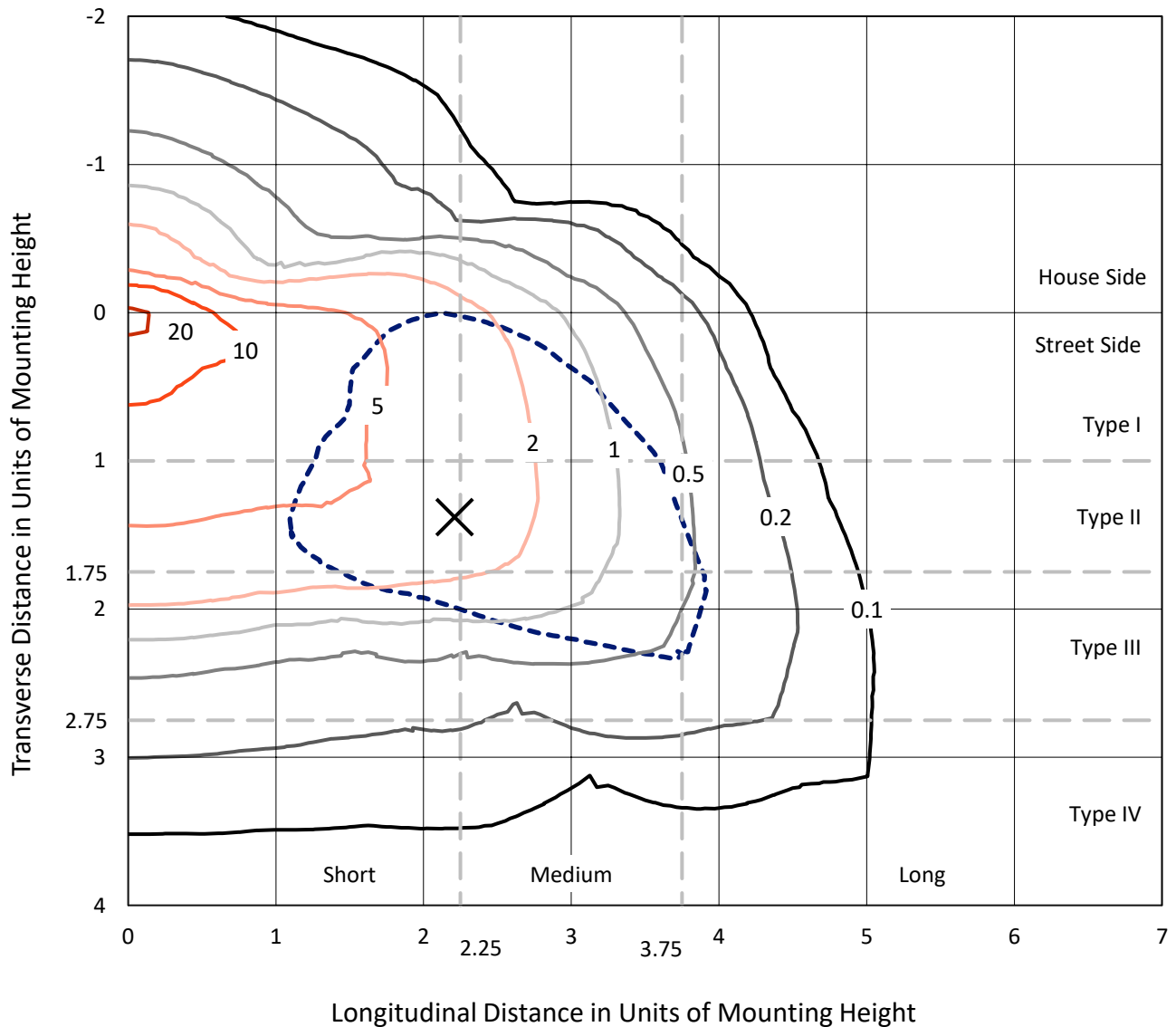
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459305
 CATALOG NUMBER: GALN-SA7D-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

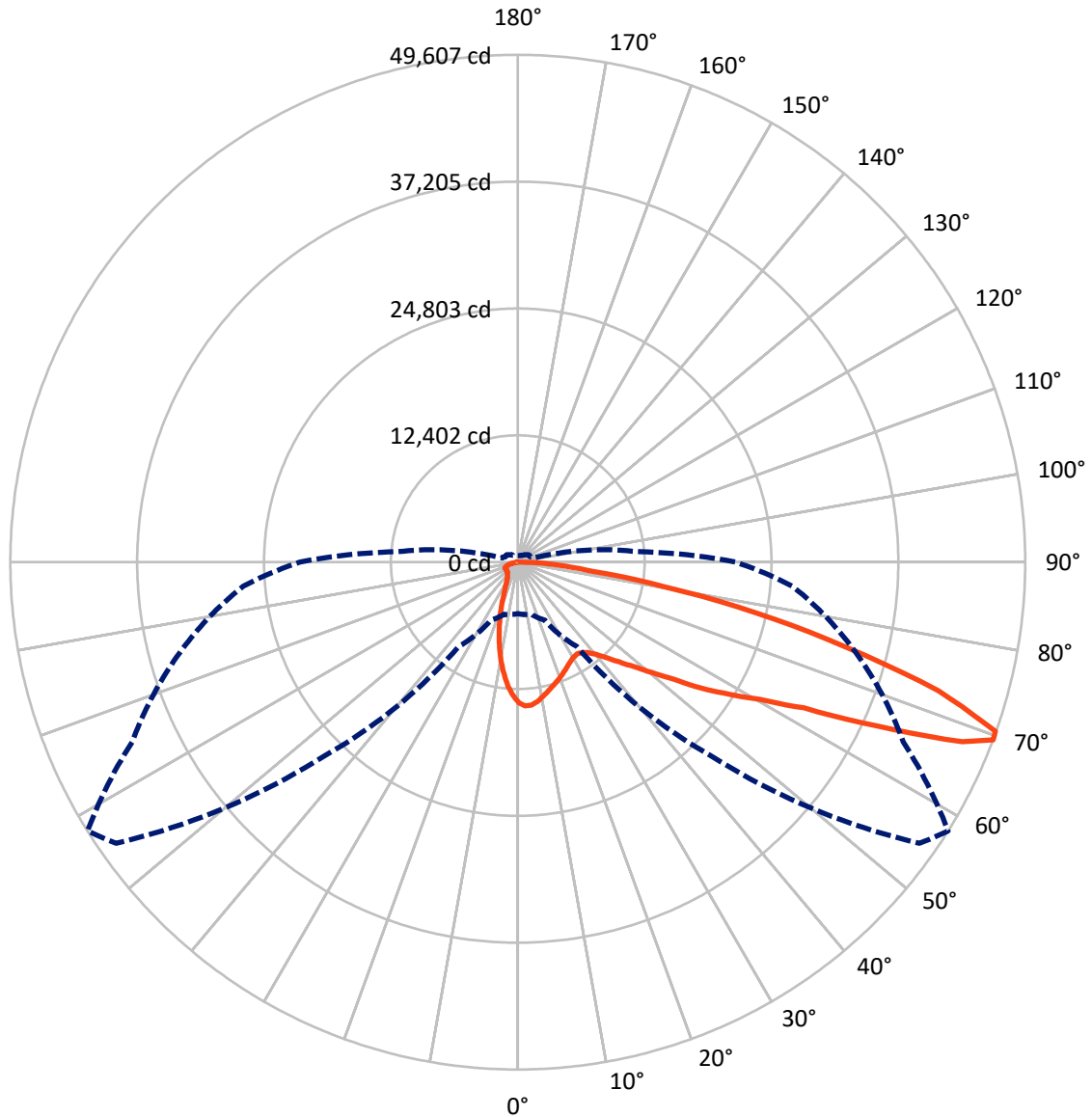
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - N/A

REPORT NUMBER: P459305
CATALOG NUMBER: GALN-SA7D-735-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459305

CATALOG NUMBER: GALN-SA7D-735-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7290.9	0.0	7290.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	42459.1	0.0	42459.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	49750.0	0.0	49750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1167.5	2.3
10°-20°	2563.7	5.2
20°-30°	3312.3	6.7
30°-40°	4302.1	8.6
40°-50°	6254.6	12.6
50°-60°	9980.4	20.1
60°-70°	13332.5	26.8
70°-80°	7685.6	15.4
80°-90°	1151.1	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°	49750.0	100.0
0°-180°	49750.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459305

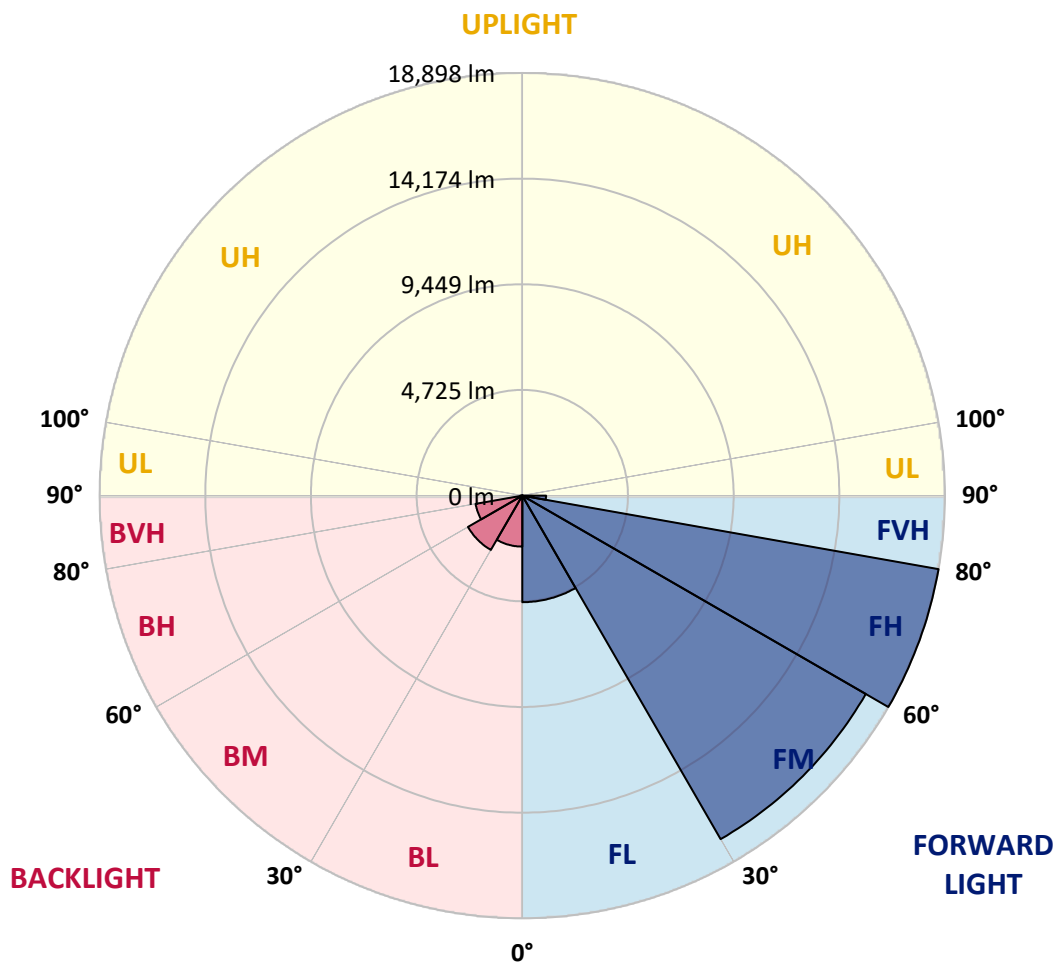
CATALOG NUMBER: GALN-SA7D-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4764.8	9.6			
FM	(30°-60°)	17733.3	35.6			
FH	(60°-80°)	18898.1	38.0			G5
FVH	(80°-90°)	1063.0	2.1			G5
BL	(0°-30°)	2278.8	4.6	B3/2500		
BM	(30°-60°)	2803.8	5.6	B3/5000		
BH	(60°-80°)	2120.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	88.2	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: P459305

CATALOG NUMBER: GALN-SA7D-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0
2.5°	14258.5	14297.4	14286.3	14272.4	14250.2	14189.1	14089.3	14072.6	14008.8	13872.8	13703.6
5°	14039.3	14072.6	14075.4	14094.8	14122.6	14111.5	14039.3	14031.0	13936.7	13753.5	13470.5
7.5°	13287.4	13331.8	13428.9	13537.1	13634.2	13725.8	13748.0	13761.9	13703.6	13492.7	13115.4
10°	12441.2	12485.6	12530.0	12690.9	12929.5	13157.0	13345.7	13370.6	13384.5	13190.3	12729.7
12.5°	11503.4	11594.9	11689.3	11927.9	12246.9	12604.9	12937.8	12990.5	13084.9	12937.8	12396.8
15°	10707.1	10801.4	10937.3	11151.0	11536.7	12052.7	12521.6	12607.6	12793.5	12718.6	12086.0
17.5°	10154.9	10188.2	10282.6	10526.7	10942.9	11486.7	12113.8	12285.8	12582.7	12563.2	11819.7
20°	9719.3	9760.9	9819.2	9969.0	10401.9	10976.2	11733.7	11955.6	12357.9	12424.5	11556.1
22.5°	9536.2	9566.7	9558.4	9638.9	9933.0	10510.1	11348.0	11611.6	12158.2	12330.2	11311.9
25°	9547.3	9575.0	9533.4	9514.0	9688.8	10099.4	10945.7	11281.4	11997.2	12266.4	11090.0
27.5°	9733.2	9752.6	9674.9	9597.2	9611.1	9844.2	10612.7	10984.5	11861.3	12294.1	10904.1
30°	9982.9	10019.0	9969.0	9874.7	9772.0	9783.1	10399.1	10765.3	11797.5	12391.2	10815.3
32.5°	10304.7	10338.0	10315.8	10240.9	10107.8	9960.7	10346.4	10684.9	11803.0	12588.2	10795.8
35°	10643.2	10709.8	10745.9	10740.4	10632.1	10376.9	10554.5	10834.7	11936.2	12918.4	10909.6
37.5°	11026.1	11081.6	11237.0	11336.9	11237.0	10940.1	11023.4	11217.6	12230.3	13395.6	11159.3
40°	11397.9	11481.2	11708.7	12019.4	11980.6	11719.8	11739.2	11866.8	12749.1	14105.9	11647.6
42.5°	11786.4	11886.3	12283.0	12743.6	12835.2	12632.6	12685.3	12799.1	13487.2	15090.9	12485.6
45°	12285.8	12405.1	12893.4	13467.8	13828.4	13703.6	13853.4	13908.9	14474.9	16372.7	13589.8
47.5°	12929.5	13068.2	13670.3	14386.1	14896.7	15010.4	15271.2	15237.9	15698.5	17890.4	15021.5
50°	14014.3	14092.0	14660.8	15390.5	16092.5	16605.8	16888.8	16941.5	17216.2	19366.5	16622.4
52.5°	15304.5	15373.9	15784.5	16422.7	17302.2	18389.8	19089.0	18917.0	18983.6	21164.4	18495.3
55°	16755.6	16872.2	17133.0	17557.5	18697.8	20298.7	21702.7	21744.3	21006.3	22884.6	20290.4
57.5°	17879.3	18076.3	18523.0	19127.9	20573.4	22421.3	24308.0	24335.7	23392.4	24721.4	22271.5
60°	17313.3	17546.4	18567.4	20040.7	23034.5	26125.3	27421.1	27262.9	25714.7	26813.4	24688.1
62.5°	14871.7	14913.3	16397.7	18700.6	23791.9	31080.7	32054.6	31385.9	28813.9	29465.9	27143.6
65°	9625.0	9896.9	11073.3	14300.1	21303.1	33830.3	40173.0	38627.5	33158.9	32476.3	29199.6
67.5°	6076.3	6006.9	6495.3	8165.6	14652.5	31408.1	47101.1	46856.9	38841.2	34376.9	28708.5
69°	5038.6	5116.3	5282.8	6259.4	10082.8	26816.2	47919.6	49606.5	41596.3	34227.1	26924.4
70°	4569.7	4605.8	4780.6	5549.1	7779.9	22460.1	46576.7	49531.6	42678.4	33600.0	25631.5
72.5°	3626.4	3623.6	3923.2	4616.9	5815.5	12821.3	38244.7	43003.0	41468.7	30681.2	21178.3
75°	2755.1	2799.5	3129.7	3906.6	5357.7	7005.8	26688.6	33117.3	33120.0	24233.1	13215.3
77.5°	1986.6	2014.3	2400.0	3279.5	5046.9	5679.5	17776.7	23753.1	22329.7	11103.8	4153.5
80°	1301.3	1317.9	1612.0	2597.0	4550.3	5357.7	10540.6	14538.7	10532.3	2946.6	1373.4
82.5°	713.1	796.3	985.0	1681.4	3651.3	4949.8	6406.5	7358.2	3951.0	1312.4	715.8
85°	357.9	380.1	554.9	982.2	2386.1	4095.3	4461.5	4220.1	2039.3	652.0	371.8
87.5°	105.4	133.2	230.3	380.1	968.3	2133.6	2483.2	2228.0	785.2	235.8	77.7
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: P459305

CATALOG NUMBER: GALN-SA7D-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0	13748.0
2.5°	13634.2	13584.3	13362.3	13162.6	12979.4	12785.2	12621.5	12477.2	12491.1	12493.9	12346.8
5°	13323.5	13209.7	12788.0	12394.0	12061.0	11639.3	11278.6	11045.6	10929.0	10773.6	10829.1
7.5°	12901.7	12682.6	12097.1	11442.3	10829.1	10282.6	9688.8	9280.9	9020.1	8767.6	8800.9
10°	12466.1	12113.8	11262.0	10396.3	9602.8	8728.8	7971.3	7322.1	6839.3	6659.0	6539.7
12.5°	12019.4	11556.1	10474.0	9322.6	8226.6	7180.6	6106.8	5410.4	4877.7	4594.7	4630.8
15°	11611.6	11048.3	9652.7	8248.8	6825.4	5579.7	4508.7	3845.6	3473.8	3396.1	3440.5
17.5°	11234.2	10496.2	8884.2	7205.6	5543.6	4184.0	3387.7	3013.2	2863.4	2821.7	2819.0
20°	10845.8	10027.3	8021.3	6090.2	4320.0	3243.5	2780.1	2605.3	2577.6	2594.2	2597.0
22.5°	10451.8	9447.4	7133.4	4983.1	3440.5	2652.5	2430.5	2383.4	2405.6	2444.4	2449.9
25°	10088.3	8936.9	6278.8	4012.0	2746.8	2330.6	2222.4	2222.4	2272.4	2330.6	2333.4
27.5°	9788.7	8443.0	5427.1	3185.2	2300.1	2097.6	2061.5	2080.9	2150.3	2194.7	2197.5
30°	9541.7	7982.4	4622.4	2552.6	2022.7	1911.7	1903.4	1936.6	1986.6	2028.2	2031.0
32.5°	9355.8	7577.3	3870.5	2144.7	1831.2	1770.2	1767.4	1792.4	1820.1	1831.2	1842.3
35°	9283.7	7241.6	3182.4	1886.7	1703.6	1664.7	1664.7	1662.0	1673.1	1678.6	1684.2
37.5°	9342.0	6983.6	2649.7	1720.2	1609.2	1581.5	1564.9	1548.2	1542.7	1542.7	1545.4
40°	9588.9	6847.6	2252.9	1612.0	1542.7	1501.0	1470.5	1451.1	1431.7	1437.2	1442.8
42.5°	10113.3	6872.6	1983.8	1539.9	1484.4	1426.1	1381.7	1359.5	1345.7	1362.3	1359.5
45°	10948.4	7122.3	1811.8	1489.9	1426.1	1351.2	1309.6	1287.4	1287.4	1312.4	1320.7
47.5°	12116.5	7599.5	1720.2	1451.1	1381.7	1292.9	1251.3	1234.7	1240.2	1281.9	1284.6
50°	13542.7	8429.1	1703.6	1431.7	1359.5	1251.3	1204.2	1187.5	1201.4	1245.8	1251.3
52.5°	15115.8	9497.3	1784.0	1434.5	1340.1	1226.4	1165.3	1140.3	1154.2	1190.3	1201.4
55°	16980.4	10834.7	1992.1	1445.6	1312.4	1212.5	1137.6	1082.1	1098.7	1123.7	1126.5
57.5°	18883.7	12521.6	2358.4	1448.3	1290.2	1187.5	1090.4	1018.3	1018.3	1034.9	1043.2
60°	21208.8	14358.4	2841.2	1451.1	1292.9	1151.4	1026.6	946.1	935.0	943.4	946.1
62.5°	23517.2	15895.5	2921.6	1442.8	1320.7	1115.4	957.2	874.0	854.6	851.8	846.2
65°	24535.5	15609.7	2394.5	1403.9	1351.2	1093.2	901.7	804.6	771.3	760.2	760.2
67.5°	22876.3	13204.2	1800.7	1351.2	1331.8	1071.0	849.0	746.4	707.5	685.3	685.3
69°	21317.0	11744.7	1617.6	1315.1	1281.9	1034.9	815.7	715.8	668.7	643.7	635.4
70°	20112.8	10740.4	1539.9	1284.6	1234.7	993.3	790.8	693.6	640.9	613.2	607.6
72.5°	16050.9	8426.4	1348.4	1168.1	1051.6	835.1	702.0	624.3	574.3	543.8	535.5
75°	9250.4	4566.9	1118.2	1015.5	846.2	649.2	593.8	543.8	505.0	477.2	468.9
77.5°	2846.7	1764.6	810.2	801.9	621.5	502.2	474.5	455.0	427.3	396.8	391.2
80°	1198.6	899.0	549.4	541.0	413.4	349.6	341.3	338.5	327.4	302.4	294.1
82.5°	657.6	507.7	382.9	332.9	249.7	202.5	210.9	213.6	205.3	180.3	163.7
85°	321.8	277.5	185.9	149.8	113.8	72.1	69.4	83.2	77.7	55.5	61.0
87.5°	63.8	77.7	49.9	22.2	11.1	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)