

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: P457737

Luminaire Tested: **GALN-SA9A-760-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457737
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-SA9A-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 41383 lumens
Efficiency: N/A
Efficacy: 151.0 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

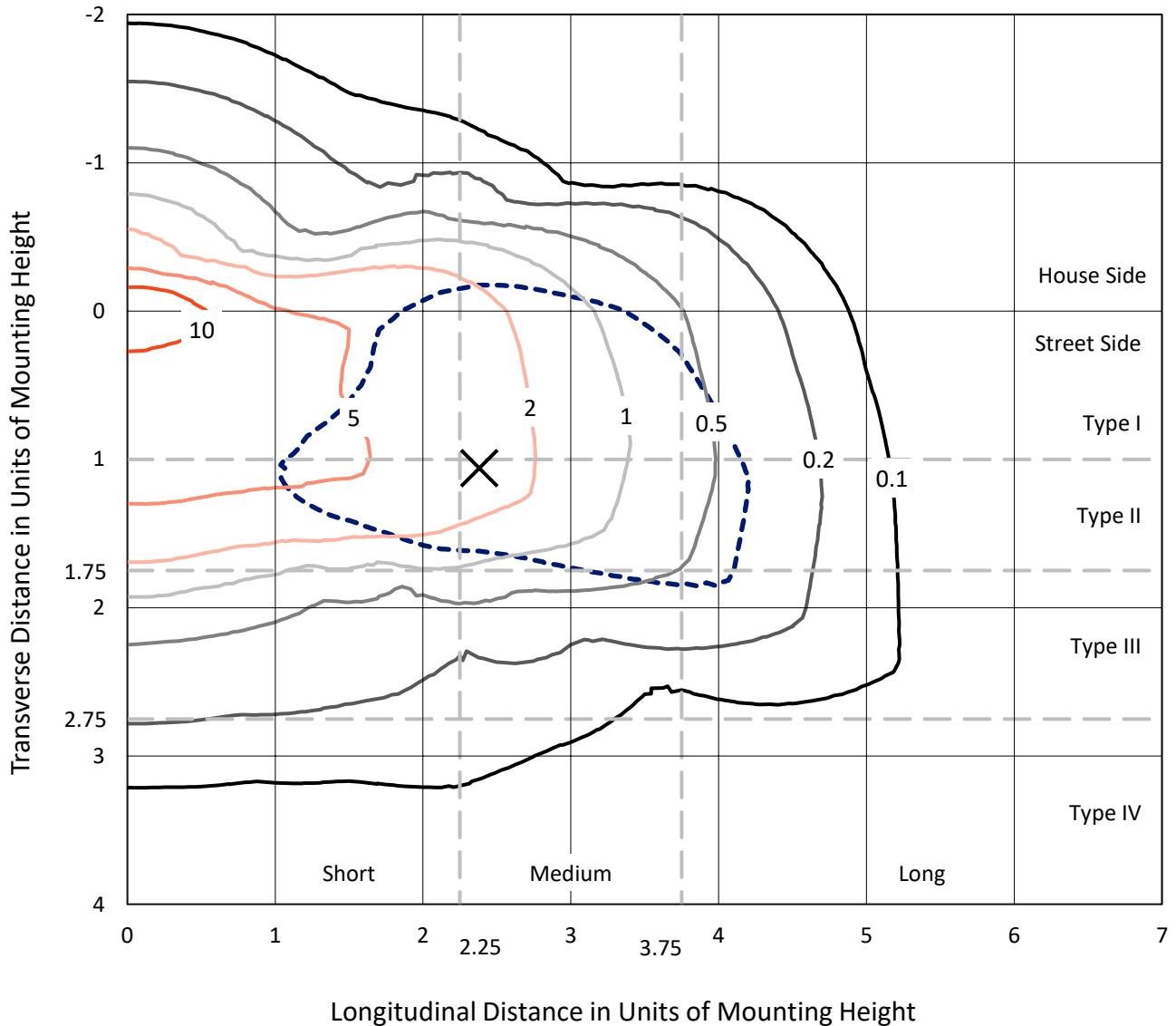
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

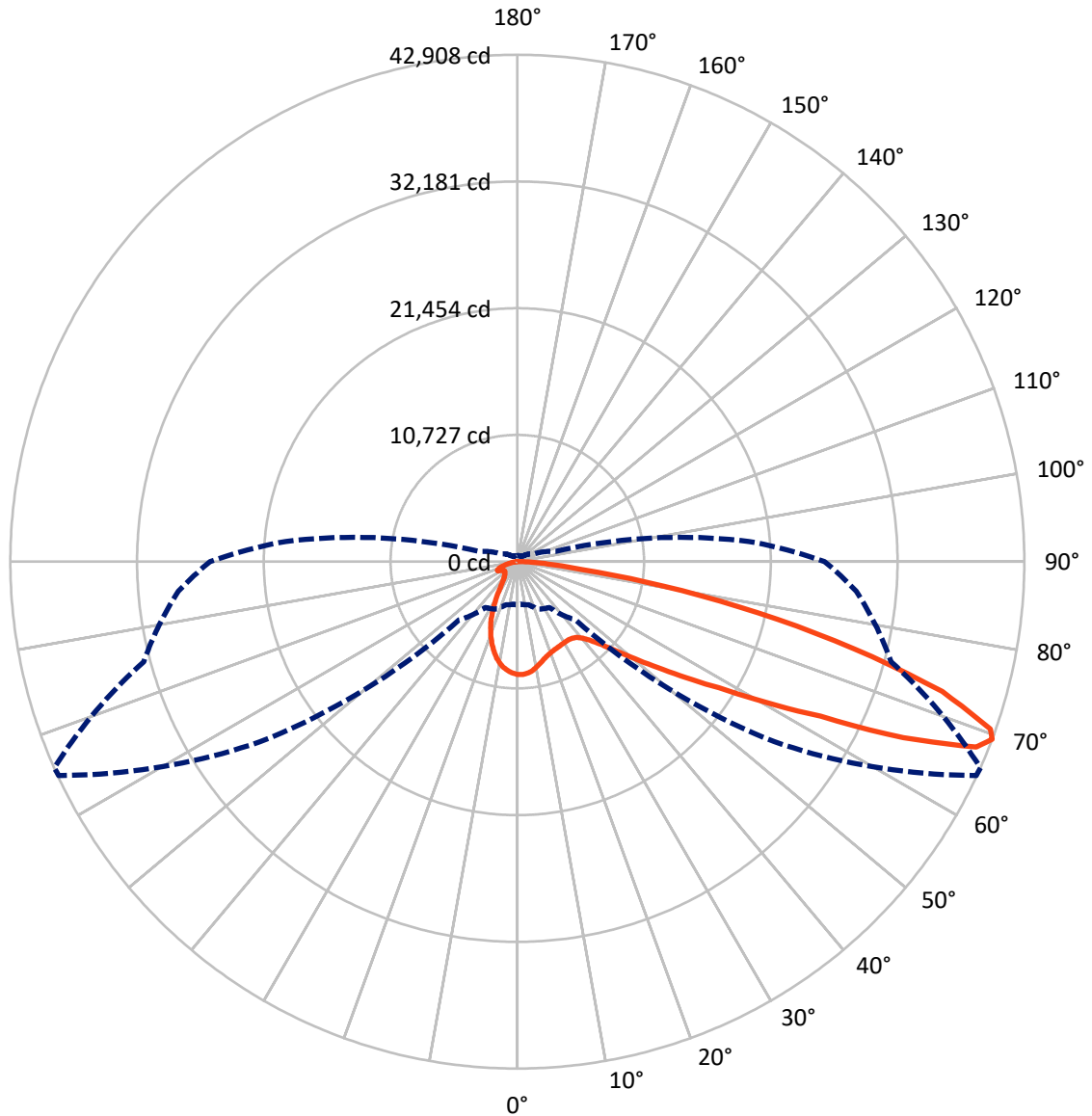
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7782.6	0.0	7782.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	33600.4	0.0	33600.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	41383.0	0.0	41383.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	829.9	2.0
10°-20°	1968.4	4.8
20°-30°	2679.7	6.5
30°-40°	3601.0	8.7
40°-50°	5376.8	13.0
50°-60°	8552.7	20.7
60°-70°	10519.4	25.4
70°-80°	6844.4	16.5
80°-90°	1010.7	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°	41383.0	100.0
0°-180°	41383.0	100.0



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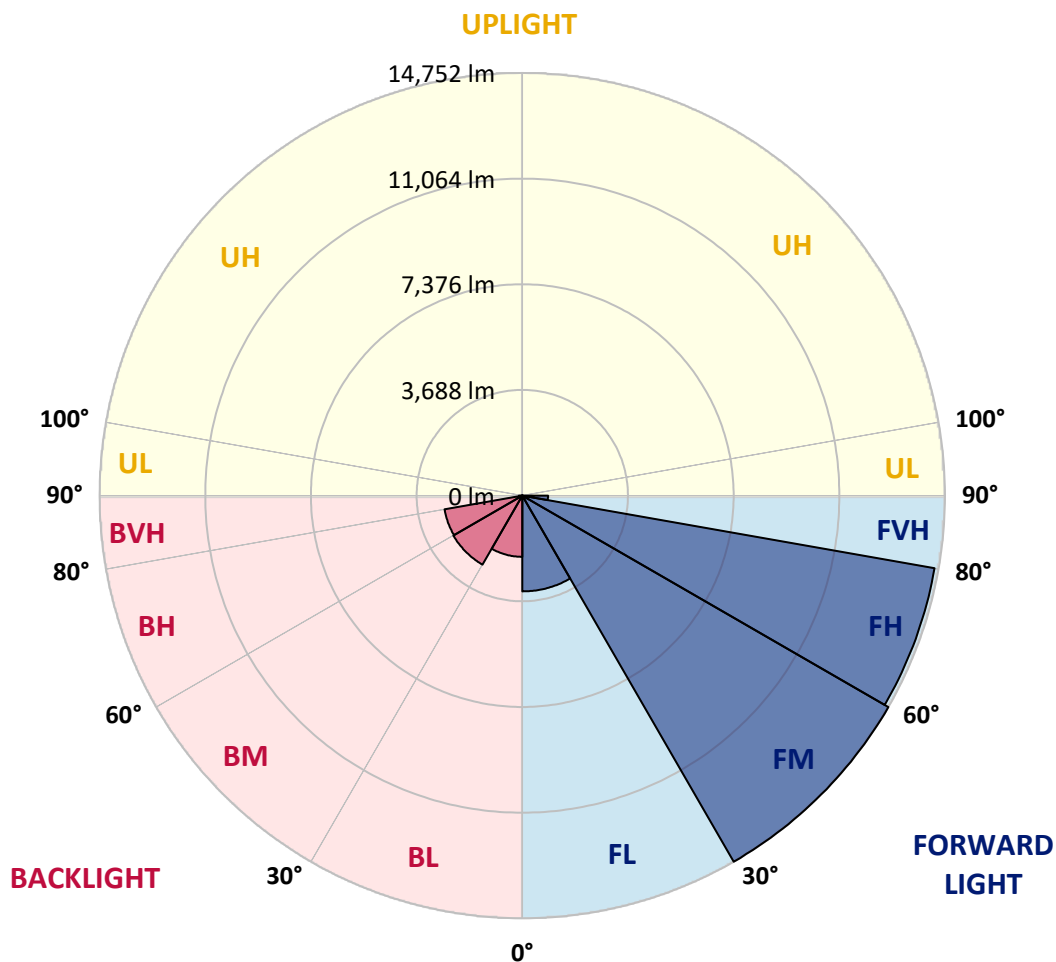
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3341.6	8.1			
FM	(30°-60°)	14751.8	35.6			
FH	(60°-80°)	14608.4	35.3			G5
FVH	(80°-90°)	898.6	2.2			G5
BL	(0°-30°)	2136.4	5.2	B3/2500		
BM	(30°-60°)	2778.7	6.7	B3/5000		
BH	(60°-80°)	2755.4	6.7	B4/5000		G4/5000
BVH	(80°-90°)	112.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5
2.5°	9221.9	9258.6	9299.8	9345.6	9432.7	9480.9	9515.2	9554.2	9558.8	9579.4	9563.4
5°	8541.3	8584.8	8646.7	8733.8	8864.4	9068.3	9279.2	9451.1	9471.7	9567.9	9595.4
7.5°	7972.9	7998.1	8048.5	8188.3	8374.0	8600.8	8907.9	9256.3	9306.7	9535.9	9616.1
10°	7510.0	7535.2	7594.8	7739.1	7922.5	8206.7	8543.5	9001.9	9043.1	9437.3	9620.7
12.5°	7163.9	7186.8	7251.0	7393.1	7603.9	7869.8	8241.0	8726.9	8786.5	9306.7	9577.1
15°	6900.4	6943.9	6996.6	7113.5	7335.8	7592.5	7952.3	8474.8	8522.9	9169.2	9547.3
17.5°	6788.1	6808.7	6845.4	6953.1	7115.8	7367.9	7730.0	8277.7	8335.0	9072.9	9540.4
20°	6792.7	6813.3	6820.2	6879.8	6996.6	7214.3	7571.9	8121.9	8190.6	8988.1	9551.9
22.5°	6948.5	6950.8	6925.6	6905.0	6950.8	7131.8	7459.6	8005.0	8085.2	8951.5	9561.1
25°	7189.1	7230.4	7193.7	7097.5	7012.7	7099.8	7416.0	7940.8	8016.4	8898.8	9549.6
27.5°	7578.7	7585.6	7555.8	7425.2	7205.2	7141.0	7397.7	7892.7	7956.9	8859.8	9492.3
30°	8101.2	8080.6	8053.1	7908.7	7562.7	7299.1	7436.6	7849.2	7915.6	8802.5	9423.6
32.5°	8630.6	8694.8	8669.6	8500.0	8050.8	7606.2	7562.7	7844.6	7899.6	8759.0	9347.9
35°	9192.1	9221.9	9341.1	9254.0	8793.3	8103.5	7798.7	7915.6	7959.2	8761.3	9295.2
37.5°	9632.1	9712.3	9991.9	10067.5	9634.4	8761.3	8181.5	8117.3	8135.6	8873.6	9315.9
40°	10163.8	10301.3	10661.1	10970.5	10686.3	9616.1	8832.3	8490.8	8513.8	9144.0	9451.1
42.5°	10837.6	10933.8	11417.4	11836.7	11790.9	10745.9	9620.7	9102.7	9114.2	9682.5	9829.2
45°	11625.9	11763.4	12306.6	12936.8	13044.5	12024.7	10759.6	10028.6	10021.7	10519.0	10535.1
47.5°	12634.3	12719.1	13257.6	13945.1	14380.6	13631.2	12141.5	11357.8	11284.4	11738.2	11607.6
50°	13562.4	13695.3	14103.3	14854.9	15938.9	15512.7	13958.9	13081.2	12909.3	13333.2	13113.2
52.5°	13952.0	14091.8	14435.6	15368.3	17275.0	17946.5	16266.6	15136.8	14850.4	15175.8	15095.6
55°	13276.0	13457.0	13777.8	14912.2	17861.7	20753.8	19378.8	17513.3	17304.8	17165.0	17187.9
57.5°	11458.6	11630.5	12063.6	13314.9	17160.4	22791.2	23822.5	20568.2	20121.3	19477.4	19587.4
60°	8722.3	8830.0	9054.6	10441.1	15081.8	23320.6	28868.8	24429.8	24145.6	21780.5	21858.5
62.5°	6194.5	6316.0	6471.8	7163.9	11041.5	21828.7	32819.8	29822.2	28807.0	24166.2	24090.6
65°	5030.3	4947.8	5135.8	5458.9	6478.7	16917.5	33709.0	37307.0	35909.0	27308.2	26258.6
67.5°	4136.6	4049.5	4235.1	4810.3	4927.2	9820.0	30505.1	42165.4	41885.8	30725.1	28460.9
69°	3662.2	3616.3	3779.1	4434.5	4730.1	6973.7	26574.8	42841.5	42907.9	32739.6	28800.1
70°	3300.1	3318.4	3476.5	4244.3	4640.7	5749.9	22713.3	41908.7	42472.5	33745.6	28433.4
72.5°	2429.2	2468.2	2688.2	3515.5	4555.9	4879.1	13516.6	36605.7	37602.6	33805.2	26011.1
75°	1698.2	1679.8	1874.6	2646.9	4303.9	4835.5	7938.5	28309.7	29439.5	29219.5	21856.2
77.5°	1111.5	1141.3	1297.1	1870.0	3620.9	4798.9	5174.7	20084.7	20818.0	19541.5	12927.6
80°	783.8	781.5	868.6	1276.5	2685.9	4610.9	4237.4	12659.5	12473.8	7679.6	3834.1
82.5°	449.2	481.3	582.1	898.4	1796.7	4058.6	3898.2	6054.7	5527.6	2188.6	1294.8
85°	249.8	261.3	346.1	543.1	1049.6	3057.2	3403.2	2754.7	2598.8	914.4	556.9
87.5°	80.2	87.1	144.4	275.0	476.7	1443.8	1927.3	1271.9	1173.4	330.0	224.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5	9556.5
2.5°	9570.2	9597.7	9524.4	9453.4	9389.2	9299.8	9219.6	9153.1	9107.3	9100.4	9077.5
5°	9602.3	9604.6	9464.8	9276.9	9093.6	8891.9	8683.3	8534.4	8394.6	8316.7	8277.7
7.5°	9625.2	9604.6	9352.5	9047.7	8694.8	8328.1	7961.4	7668.1	7441.2	7351.8	7386.2
10°	9616.1	9551.9	9182.9	8694.8	8181.5	7633.7	7106.6	6694.1	6316.0	6121.2	6125.8
12.5°	9565.7	9460.2	8930.8	8298.3	7544.4	6811.0	6004.3	5447.4	5009.7	4750.7	4670.5
15°	9522.1	9338.8	8635.2	7759.8	6822.5	5775.1	4792.0	4104.5	3737.8	3533.8	3531.5
17.5°	9476.3	9221.9	8312.1	7189.1	5992.9	4645.3	3614.0	3089.2	2917.4	2938.0	2903.6
20°	9428.1	9084.4	7975.2	6554.3	4982.2	3465.1	2706.5	2493.4	2541.5	2635.5	2649.2
22.5°	9373.1	8937.7	7613.1	5855.4	3918.8	2608.0	2195.5	2163.4	2287.1	2433.8	2454.4
25°	9288.4	8754.4	7157.1	5124.3	3022.8	2101.5	1922.8	1945.7	2067.1	2190.9	2204.6
27.5°	9169.2	8527.5	6696.4	4212.2	2271.1	1803.6	1757.8	1787.5	1847.1	1922.8	1941.1
30°	9008.8	8270.8	6167.0	3423.8	1819.6	1654.6	1636.3	1652.3	1686.7	1718.8	1728.0
32.5°	8848.3	8023.3	5633.1	2621.7	1622.5	1556.1	1537.7	1537.7	1537.7	1542.3	1544.6
35°	8699.4	7789.6	5060.1	2041.9	1519.4	1478.2	1453.0	1425.5	1420.9	1404.8	1404.8
37.5°	8616.9	7576.4	4450.5	1709.6	1443.8	1414.0	1379.6	1333.8	1308.6	1310.9	1306.3
40°	8632.9	7436.6	3895.9	1521.7	1381.9	1349.8	1297.1	1244.4	1228.4	1228.4	1223.8
42.5°	8814.0	7390.8	3364.2	1423.2	1322.3	1285.7	1219.2	1171.1	1161.9	1159.6	1164.2
45°	9231.1	7503.1	2887.6	1359.0	1271.9	1216.9	1150.4	1106.9	1097.7	1097.7	1095.4
47.5°	10044.6	7867.5	2546.1	1317.7	1235.2	1164.2	1095.4	1051.9	1035.9	1031.3	1031.3
50°	11309.7	8658.1	2291.7	1281.1	1189.4	1116.1	1045.0	994.6	969.4	967.1	964.8
52.5°	13067.4	9891.1	2193.2	1253.6	1139.0	1065.7	987.7	939.6	907.5	900.6	896.1
55°	15123.1	11612.2	2328.4	1232.9	1086.3	1008.4	928.1	877.7	847.9	834.2	831.9
57.5°	17504.2	13679.3	2841.7	1205.4	1038.2	946.5	868.6	818.1	786.1	770.0	765.4
60°	19642.4	15803.7	3737.8	1189.4	996.9	880.0	799.8	754.0	724.2	708.1	705.9
62.5°	21991.4	17829.6	4808.0	1232.9	978.6	815.9	735.6	694.4	669.2	653.1	653.1
65°	24500.8	19857.8	5516.2	1379.6	1006.1	765.4	666.9	632.5	609.6	598.1	595.8
67.5°	26192.1	20559.0	4544.5	1530.9	1074.8	710.4	600.4	572.9	559.2	547.7	547.7
69°	26008.8	19672.1	3352.8	1569.8	1095.4	682.9	563.8	543.1	524.8	520.2	515.6
70°	25429.0	18661.5	2809.7	1544.6	1079.4	657.7	540.8	515.6	499.6	495.0	492.7
72.5°	22649.1	16184.1	2092.3	1342.9	919.0	570.6	479.0	456.1	442.3	435.4	435.4
75°	18817.3	13227.8	1634.0	1067.9	719.6	481.3	410.2	391.9	380.4	375.8	373.6
77.5°	10546.5	7386.2	1173.4	836.5	545.4	389.6	343.8	327.7	316.3	311.7	311.7
80°	2938.0	2110.7	689.8	552.3	371.3	295.6	272.7	261.3	245.2	233.8	240.6
82.5°	1106.9	914.4	394.2	332.3	236.0	197.1	190.2	181.0	174.2	158.1	158.1
85°	538.6	444.6	252.1	176.5	130.6	103.1	98.5	94.0	89.4	77.9	80.2
87.5°	185.6	197.1	110.0	64.2	39.0	25.2	20.6	11.5	11.5	11.5	11.5
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)