

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: P383444

Luminaire Tested: **GLEON-SA7C-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38601.5 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

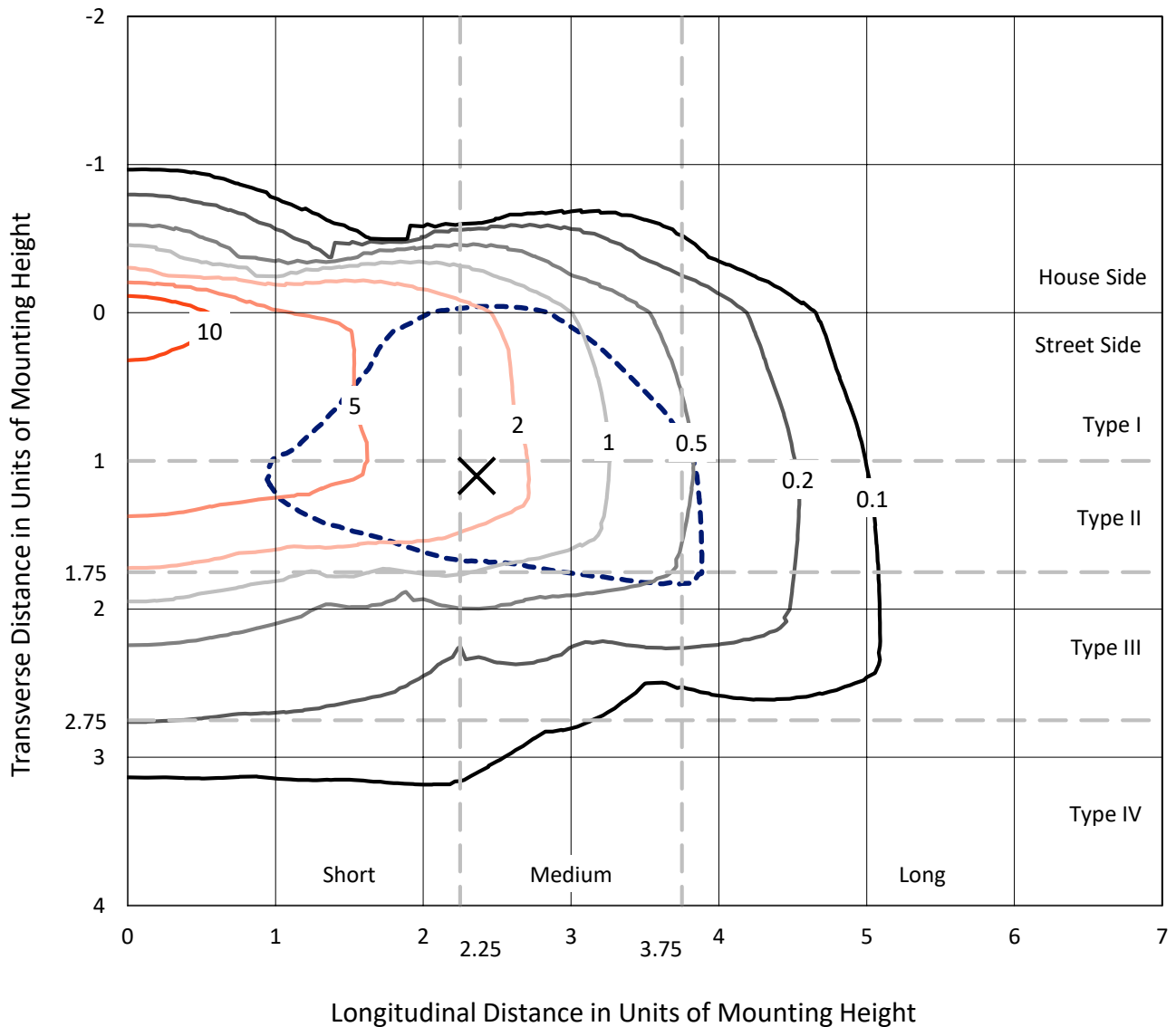
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

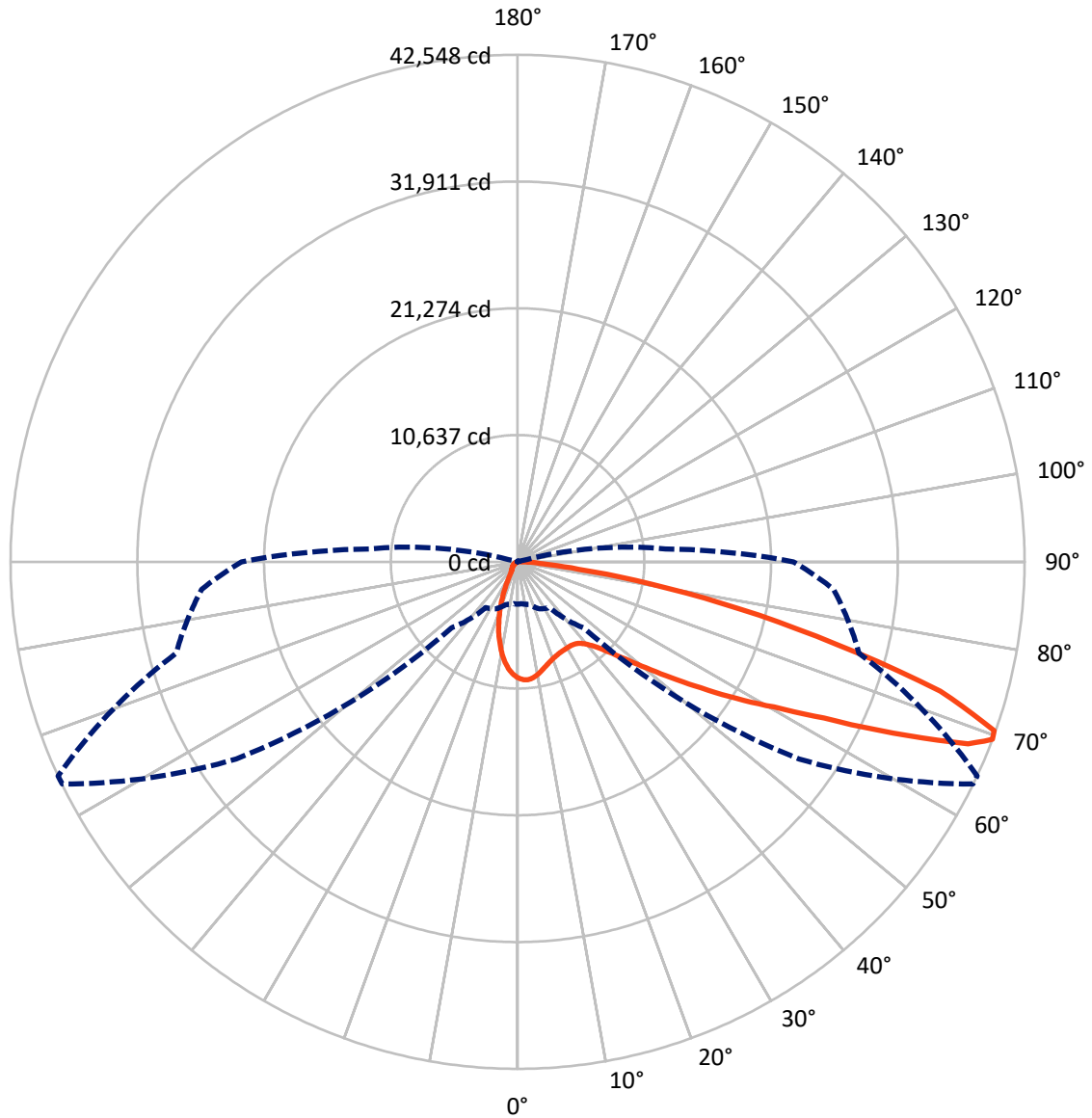
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4550.2	0.0	4550.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	34051.3	0.0	34051.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	38601.5	0.0	38601.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	815.7	2.1
10°-20°	1785.6	4.6
20°-30°	2473.1	6.4
30°-40°	3448.3	8.9
40°-50°	5359.8	13.9
50°-60°	8604.5	22.3
60°-70°	9733.1	25.2
70°-80°	5716.4	14.8
80°-90°	665.0	1.7
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°	38601.5	100.0
0°-180°	38601.5	100.0

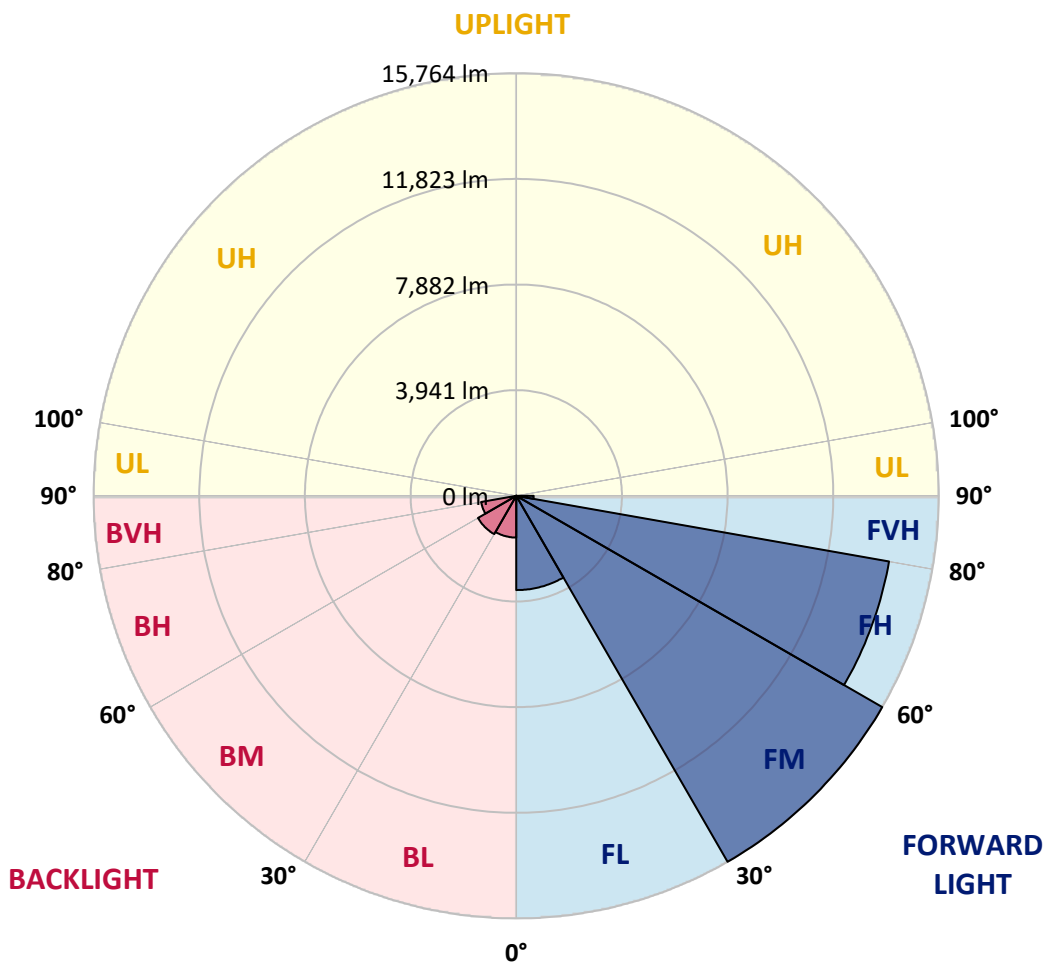


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3517.5	9.1			
FM (30°-60°)	15763.7	40.8			
FH (60°-80°)	14120.0	36.6			G5
FVH (80°-90°)	650.0	1.7			G4/750
BL (0°-30°)	1556.9	4.0	B3/2500		
BM (30°-60°)	1648.9	4.3	B2/2500		
BH (60°-80°)	1329.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	15.0	0.0			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7
2.5°	9841.2	9816.7	9836.3	9878.8	9900.0	9900.0	9916.3	9896.8	9903.3	9856.0	9787.3
5°	9225.4	9187.9	9241.8	9361.0	9508.0	9633.8	9820.0	9918.0	9927.8	9929.5	9849.4
7.5°	8562.3	8527.9	8608.1	8748.4	8937.9	9171.6	9496.6	9780.8	9797.1	9950.7	9891.8
10°	8023.2	7998.7	8091.9	8242.1	8464.2	8725.6	9124.1	9519.5	9566.8	9906.5	9885.3
12.5°	7595.3	7575.7	7663.9	7837.0	8064.1	8353.2	8769.7	9228.7	9292.4	9807.0	9852.7
15°	7283.3	7280.0	7353.5	7520.2	7771.7	8041.2	8467.6	8959.2	9032.7	9699.1	9847.8
17.5°	7120.0	7124.8	7178.8	7320.9	7536.5	7804.4	8212.7	8732.1	8812.2	9602.8	9872.3
20°	7103.6	7108.5	7138.0	7218.0	7392.8	7629.6	8005.3	8541.1	8624.4	9530.8	9911.5
22.5°	7247.3	7244.1	7252.3	7244.1	7342.1	7521.8	7868.0	8394.1	8490.4	9483.5	9942.5
25°	7523.5	7518.5	7515.3	7454.8	7389.5	7485.8	7810.9	8310.7	8402.2	9449.2	9960.5
27.5°	7907.3	7904.0	7899.2	7799.5	7603.5	7543.0	7817.5	8279.7	8356.4	9421.5	9957.2
30°	8412.0	8434.9	8428.4	8289.5	7984.0	7717.8	7886.0	8263.4	8330.4	9367.5	9922.9
32.5°	9004.9	9050.6	9086.6	8937.9	8555.7	8064.1	8044.5	8281.4	8330.4	9326.7	9860.8
35°	9620.7	9679.5	9811.8	9759.5	9256.5	8585.1	8317.2	8389.1	8429.9	9349.6	9831.5
37.5°	10226.7	10297.0	10584.4	10736.4	10174.5	9274.4	8741.9	8655.4	8676.6	9488.4	9864.1
40°	10930.7	11036.9	11473.0	11718.0	11270.4	10197.3	9377.3	9112.8	9120.9	9793.8	10016.0
42.5°	11855.2	11964.6	12436.7	12820.5	12505.3	11363.6	10239.8	9811.8	9803.7	10365.5	10373.7
45°	12982.2	13096.6	13584.9	14011.3	13869.2	12745.4	11343.9	10832.7	10822.9	11267.2	11051.6
47.5°	14259.6	14372.3	14808.4	15247.8	15401.3	14359.2	12750.3	12226.0	12203.1	12520.0	12098.6
50°	15355.6	15429.1	15830.9	16422.2	17114.8	16342.1	14499.7	13994.9	13970.4	14184.4	13635.6
52.5°	15754.1	15796.6	16204.9	17033.1	18761.2	19027.4	16797.9	16147.8	16129.8	16222.9	15682.2
55°	14947.2	15024.0	15525.5	16753.8	19653.0	22062.3	19698.8	18813.5	18677.9	18477.0	17822.0
57.5°	12748.7	12871.2	13410.2	15043.6	19236.6	24470.0	23961.9	21828.8	21629.5	20401.2	19561.6
60°	9552.1	9702.3	10150.0	11912.4	17013.5	25327.5	28620.4	25188.7	24739.5	21933.3	21160.7
62.5°	6554.8	6630.0	6933.8	8082.0	12529.8	23922.8	32517.7	29688.7	28868.7	23599.4	22890.5
65°	5006.3	5032.5	5156.7	5551.9	7461.3	19432.5	34067.8	35626.1	34634.6	25592.1	24685.5
67.5°	4034.5	4013.3	4184.8	4750.0	4996.5	11855.2	32259.6	41243.3	40779.4	28256.2	26492.1
69°	3557.6	3528.1	3702.9	4359.5	4692.8	7837.0	28839.3	42519.0	42548.4	29662.5	26616.3
70°	3201.4	3221.1	3394.2	4127.6	4589.8	6151.4	25572.5	42194.0	42425.9	30188.5	25871.4
72.5°	2138.1	2190.3	2538.3	3426.9	4413.5	4655.2	15440.5	36207.6	37099.3	29004.3	22196.3
75°	1205.4	1244.6	1657.9	2584.0	4158.6	4433.0	8155.6	26675.1	27537.5	24254.3	17116.3
77.5°	591.3	612.5	937.6	1667.7	3477.5	4224.0	4625.8	18119.3	19104.3	15830.9	9681.2
80°	249.9	261.3	468.8	1029.1	2486.0	4031.3	3435.1	11151.2	11273.7	6202.1	2579.2
82.5°	96.4	99.7	197.7	641.9	1579.5	3142.7	2873.2	5287.3	5159.9	1167.9	588.0
85°	11.5	13.0	71.9	385.5	878.7	1617.1	2334.1	2278.6	2108.7	232.0	302.2
87.5°	0.0	0.0	4.9	117.6	261.3	757.9	1213.6	945.7	852.6	75.2	156.8
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°	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7	9754.7
2.5°	9730.2	9713.8	9625.6	9498.2	9377.3	9227.1	9083.3	8996.8	8928.1	8882.4	8936.3
5°	9756.3	9684.5	9416.5	9073.6	8737.1	8358.1	8005.3	7706.4	7588.8	7458.1	7516.9
7.5°	9748.1	9612.5	9130.7	8519.8	7902.4	7263.7	6659.4	6193.9	5952.1	5715.2	5775.7
10°	9707.3	9478.6	8748.4	7843.5	6919.1	6001.1	5143.5	4491.8	4127.6	3797.6	3845.1
12.5°	9617.5	9298.9	8297.7	7069.3	5832.9	4622.5	3617.9	2783.3	2335.8	2138.1	2162.6
15°	9563.5	9124.1	7820.7	6285.3	4673.1	3219.4	2211.6	1644.8	1440.6	1375.3	1383.5
17.5°	9537.4	8955.9	7327.5	5388.5	3487.3	2049.9	1429.2	1260.9	1216.9	1205.4	1208.7
20°	9511.3	8786.1	6819.5	4501.6	2402.7	1378.6	1174.4	1125.4	1109.1	1094.4	1097.6
22.5°	9467.2	8622.7	6273.9	3603.3	1620.3	1118.9	1058.4	1011.1	976.7	958.8	962.1
25°	9413.3	8451.2	5716.9	2683.7	1182.6	998.0	940.9	873.9	833.0	800.4	802.0
27.5°	9326.7	8240.5	5142.0	1953.5	993.1	893.4	816.7	743.2	674.6	637.0	637.0
30°	9205.8	8002.0	4503.3	1398.2	890.2	790.6	697.4	606.0	532.5	498.2	494.9
32.5°	9071.9	7753.7	3858.1	1060.1	808.5	694.2	588.0	491.7	426.3	398.5	396.9
35°	8957.6	7485.8	3214.5	888.6	726.9	601.1	485.1	403.5	351.2	328.3	326.7
37.5°	8884.1	7218.0	2587.3	793.9	653.4	514.5	406.7	333.2	295.7	277.7	276.0
40°	8872.6	7018.7	2014.0	721.9	584.7	437.7	339.7	282.5	248.3	228.7	227.0
42.5°	9021.3	6904.4	1545.2	661.5	514.5	370.8	289.2	241.7	205.8	186.2	184.5
45°	9411.6	6940.3	1189.1	607.6	444.3	313.7	245.0	200.9	168.2	153.5	150.3
47.5°	10123.8	7188.6	945.7	553.7	377.3	266.2	209.0	166.6	138.8	124.2	122.5
50°	11391.3	7771.7	790.6	494.9	315.2	227.0	173.2	135.5	112.7	99.7	98.0
52.5°	13073.7	8810.6	705.6	437.7	261.3	192.7	142.1	107.8	88.2	78.4	76.8
55°	14929.3	10068.3	650.1	375.7	214.0	160.0	112.7	85.0	68.6	60.5	57.2
57.5°	16740.7	11157.7	597.9	315.2	178.0	130.7	89.8	67.0	53.9	45.7	44.1
60°	18405.1	12159.0	537.4	253.2	145.4	102.9	70.2	52.3	42.5	34.3	34.3
62.5°	20187.2	12933.2	454.1	197.7	119.2	78.4	57.2	47.3	34.3	29.4	27.8
65°	22075.3	13508.2	356.0	153.5	93.1	58.8	47.3	49.0	27.8	21.2	19.6
67.5°	23470.3	13393.9	263.0	120.9	71.9	45.7	45.7	52.3	24.5	16.3	14.7
69°	23163.2	12464.5	220.5	104.5	62.0	39.2	42.5	52.3	22.8	14.7	13.0
70°	22273.0	11435.4	194.4	93.1	55.5	36.0	40.8	50.7	21.2	14.7	13.0
72.5°	18548.9	8612.9	151.9	70.2	44.1	29.4	34.3	44.1	21.2	14.7	11.5
75°	13952.5	5512.7	116.0	50.7	32.7	22.8	26.2	32.7	21.2	13.0	11.5
77.5°	7592.0	1987.8	83.3	34.3	22.8	18.0	18.0	24.5	19.6	9.8	6.5
80°	1951.9	499.8	52.3	22.8	18.0	13.0	11.5	16.3	11.5	1.7	0.0
82.5°	481.9	112.7	27.8	16.3	13.0	4.9	4.9	8.2	4.9	0.0	0.0
85°	264.7	55.5	18.0	11.5	6.5	0.0	0.0	1.7	0.0	0.0	0.0
87.5°	135.5	16.3	4.9	3.3	1.7	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)