

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: P383416

Luminaire Tested: **GLEON-SA7B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383416
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-SA7B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 31188.2 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

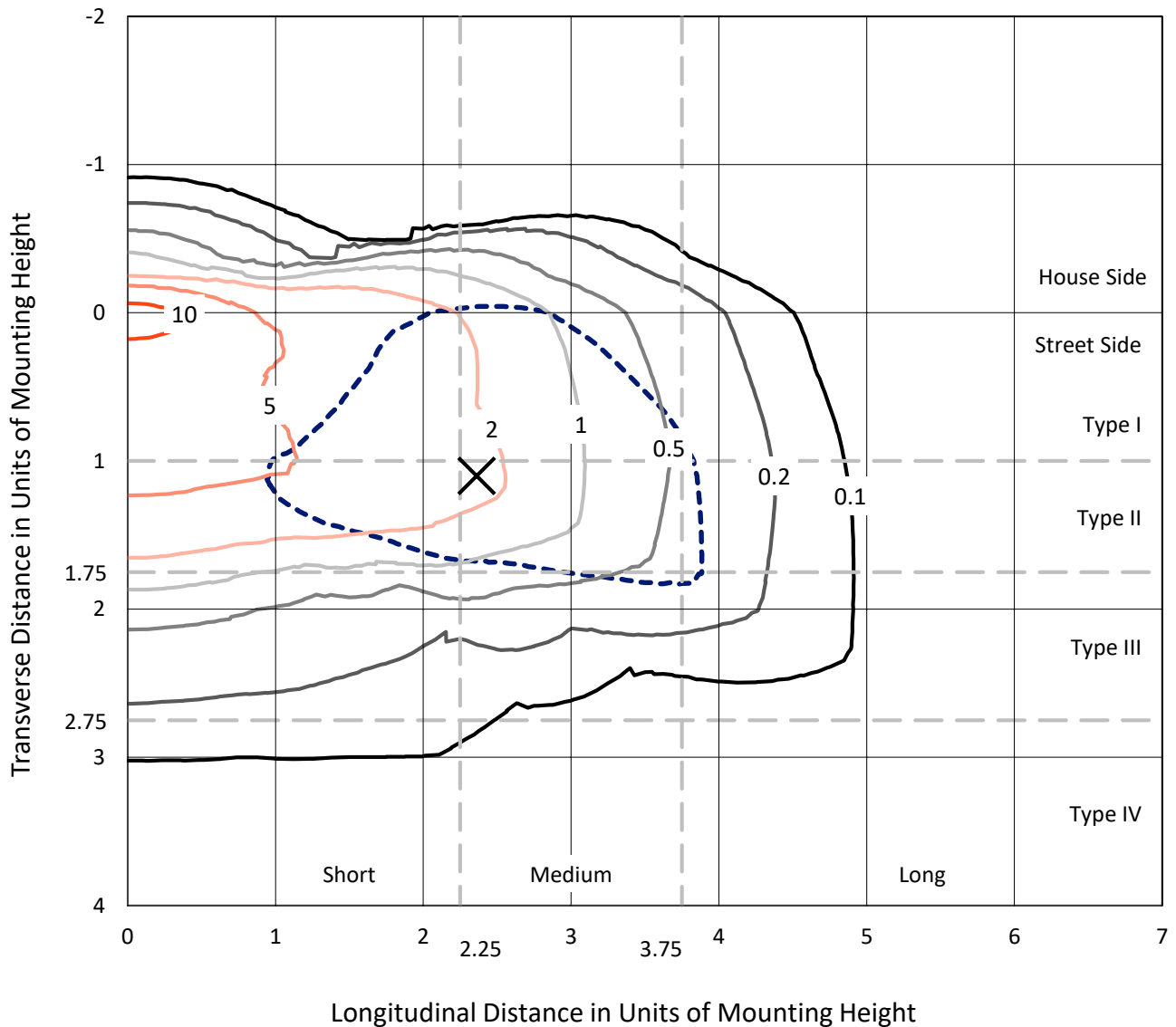
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

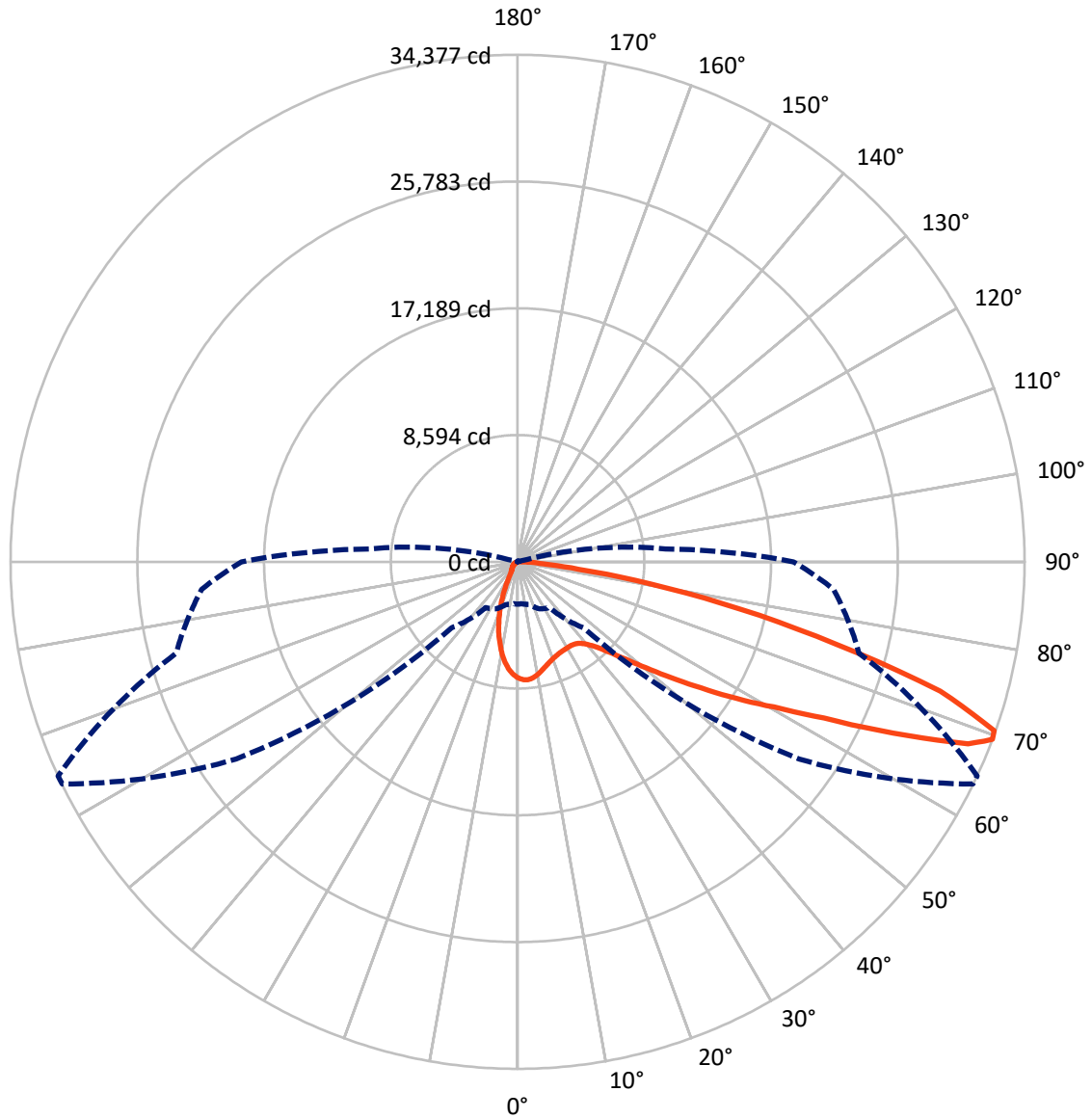
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	3676.4	0.0	3676.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	27511.9	0.0	27511.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	31188.2	0.0	31188.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.0	2.1
10°-20°	1442.7	4.6
20°-30°	1998.2	6.4
30°-40°	2786.1	8.9
40°-50°	4330.5	13.9
50°-60°	6952.1	22.3
60°-70°	7863.9	25.2
70°-80°	4618.6	14.8
80°-90°	537.3	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°	31188.2	100.0
0°-180°	31188.2	100.0

Coefficient of Utilization

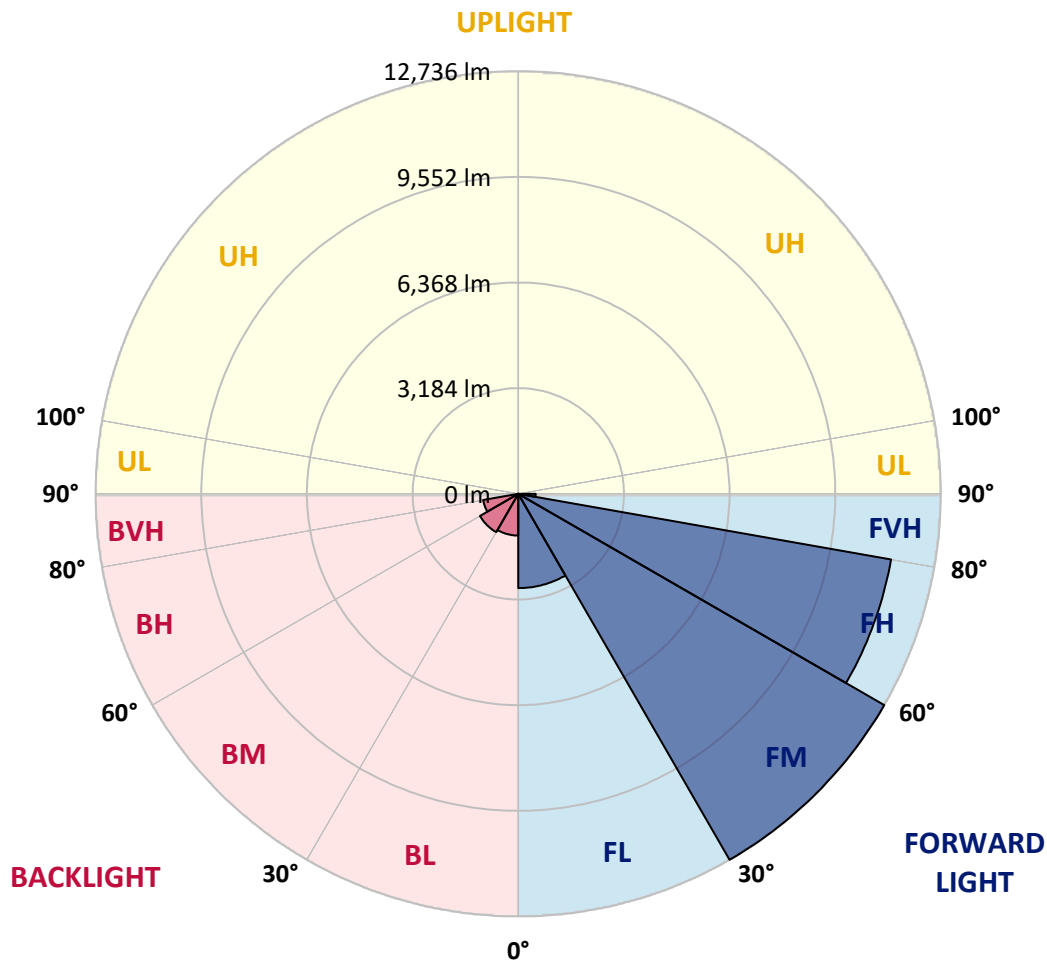


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.0	9.1			
FM (30°-60°)	12736.4	40.8			
FH (60°-80°)	11408.3	36.6			G4/12000
FVH (80°-90°)	525.2	1.7			G4/750
BL (0°-30°)	1257.9	4.0	B3/2500		
BM (30°-60°)	1332.2	4.3	B2/2500		
BH (60°-80°)	1074.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	12.1	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4
2.5°	7951.2	7931.5	7947.3	7981.6	7998.7	7998.7	8012.0	7996.1	8001.4	7963.1	7907.7
5°	7453.7	7423.4	7466.9	7563.2	7682.0	7783.6	7934.1	8013.3	8021.2	8022.5	7957.8
7.5°	6918.0	6890.2	6954.8	7068.4	7221.5	7410.2	7672.8	7902.4	7915.6	8039.7	7992.2
10°	6482.5	6462.6	6537.9	6659.3	6838.8	7049.9	7371.9	7691.3	7729.5	8004.0	7986.9
12.5°	6136.7	6120.8	6192.1	6332.0	6515.4	6749.0	7085.5	7456.4	7507.8	7923.6	7960.5
15°	5884.6	5882.0	5941.3	6075.9	6279.2	6497.0	6841.4	7238.6	7298.0	7836.5	7956.5
17.5°	5752.6	5756.6	5800.1	5915.0	6089.2	6305.6	6635.5	7055.2	7119.8	7758.6	7976.4
20°	5739.5	5743.4	5767.1	5831.8	5973.0	6164.3	6467.9	6900.8	6968.1	7700.5	8008.0
22.5°	5855.5	5852.9	5859.5	5852.9	5932.1	6077.2	6357.1	6782.0	6859.8	7662.3	8033.1
25°	6078.6	6074.6	6072.0	6023.2	5970.4	6048.3	6310.9	6714.7	6788.6	7634.5	8047.6
27.5°	6388.7	6386.0	6382.1	6301.6	6143.3	6094.5	6316.2	6689.6	6751.7	7612.1	8044.9
30°	6796.5	6815.0	6809.7	6697.5	6450.8	6235.6	6371.6	6676.4	6730.5	7568.5	8017.3
32.5°	7275.6	7312.6	7341.5	7221.5	6912.6	6515.4	6499.6	6690.9	6730.5	7535.6	7967.1
35°	7773.1	7820.6	7927.5	7885.3	7478.8	6936.4	6720.0	6778.0	6811.0	7554.0	7943.3
37.5°	8262.7	8319.5	8551.7	8674.5	8220.4	7493.3	7063.1	6993.1	7010.3	7666.2	7969.8
40°	8831.5	8917.3	9269.6	9467.6	9106.0	8239.0	7576.5	7362.7	7369.3	7913.0	8092.4
42.5°	9578.5	9666.9	10048.3	10358.4	10103.8	9181.2	8273.3	7927.5	7920.9	8374.9	8381.5
45°	10489.0	10581.4	10976.1	11320.4	11205.7	10297.7	9165.4	8752.4	8744.4	9103.4	8929.2
47.5°	11521.1	11612.1	11964.5	12319.5	12443.5	11601.6	10301.7	9878.0	9859.6	10115.6	9775.1
50°	12406.6	12466.0	12790.6	13268.4	13827.9	13203.8	11715.0	11307.3	11287.5	11460.4	11016.9
52.5°	12728.6	12762.9	13092.9	13761.9	15158.2	15373.3	13571.9	13046.7	13032.2	13107.3	12670.5
55°	12076.7	12138.7	12543.8	13536.3	15878.8	17825.3	15915.7	15200.4	15090.9	14928.6	14399.4
57.5°	10300.3	10399.3	10834.8	12154.6	15542.2	19770.6	19360.2	17636.6	17475.6	16483.2	15804.8
60°	7717.7	7839.1	8200.7	9624.7	13746.1	20463.4	23124.0	20351.2	19988.3	17721.1	17096.9
62.5°	5296.0	5356.7	5602.1	6530.0	10123.5	19328.5	26272.8	23987.1	23324.6	19067.2	18494.5
65°	4044.9	4066.0	4166.3	4485.7	6028.4	15700.6	27525.2	28784.3	27983.1	20677.3	19944.8
67.5°	3259.7	3242.5	3381.1	3837.7	4037.0	9578.5	26064.3	33322.7	32947.9	22829.7	21404.4
69°	2874.3	2850.5	2991.8	3522.3	3791.5	6332.0	23300.8	34353.4	34377.2	23965.9	21504.7
70°	2586.6	2602.5	2742.4	3334.9	3708.4	4970.0	20661.4	34090.8	34278.2	24390.9	20902.9
72.5°	1727.5	1769.8	2050.8	2768.7	3565.9	3761.2	12475.2	29254.0	29974.6	23434.1	17933.6
75°	973.9	1005.6	1339.5	2087.8	3360.0	3581.7	6589.3	21552.2	22249.0	19596.4	13829.3
77.5°	477.7	494.9	757.5	1347.4	2809.6	3412.8	3737.5	14639.5	15435.4	12790.6	7821.9
80°	202.0	211.2	378.8	831.4	2008.6	3257.1	2775.4	9009.6	9108.7	5011.0	2083.8
82.5°	77.9	80.5	159.7	518.7	1276.1	2539.1	2321.4	4271.9	4169.0	943.6	475.1
85°	9.2	10.5	58.0	311.4	710.0	1306.5	1885.8	1841.0	1703.7	187.4	244.2
87.5°	0.0	0.0	4.0	95.0	211.2	612.3	980.5	764.1	688.9	60.7	126.7
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°	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4	7881.4
2.5°	7861.5	7848.3	7777.0	7674.1	7576.5	7455.1	7338.9	7269.0	7213.5	7176.5	7220.1
5°	7882.7	7824.5	7608.1	7331.0	7059.2	6753.0	6467.9	6226.4	6131.4	6025.8	6073.3
7.5°	7876.0	7766.5	7377.2	6883.6	6384.7	5868.7	5380.4	5004.4	4809.0	4617.7	4666.5
10°	7843.1	7658.3	7068.4	6337.2	5590.3	4848.6	4155.7	3629.2	3334.9	3068.3	3106.6
12.5°	7770.5	7513.1	6704.2	5711.7	4712.7	3734.8	2923.2	2248.8	1887.2	1727.5	1747.3
15°	7726.9	7371.9	6318.8	5078.2	3775.7	2601.2	1786.9	1328.9	1164.0	1111.2	1117.8
17.5°	7705.8	7236.0	5920.3	4353.8	2817.6	1656.2	1154.7	1018.8	983.2	973.9	976.5
20°	7684.7	7098.8	5509.8	3637.1	1941.3	1113.9	948.9	909.3	896.1	884.2	886.8
22.5°	7649.0	6966.8	5069.0	2911.3	1309.2	904.0	855.2	816.9	789.2	774.7	777.3
25°	7605.5	6828.2	4619.0	2168.3	955.5	806.3	760.1	706.0	673.0	646.7	648.0
27.5°	7535.6	6658.0	4154.4	1578.4	802.3	721.9	659.8	600.5	545.0	514.7	514.7
30°	7437.8	6465.2	3638.4	1129.7	719.2	638.8	563.5	489.6	430.2	402.5	399.9
32.5°	7329.7	6264.7	3117.1	856.5	653.3	560.9	475.1	397.2	344.5	322.0	320.7
35°	7237.3	6048.3	2597.2	717.9	587.2	485.6	392.0	325.9	283.7	265.3	263.9
37.5°	7177.9	5831.8	2090.4	641.4	527.9	415.7	328.6	269.2	238.8	224.3	223.0
40°	7168.6	5670.8	1627.2	583.3	472.5	353.7	274.5	228.3	200.6	184.7	183.4
42.5°	7288.8	5578.4	1248.5	534.5	415.7	299.6	233.6	195.3	166.3	150.4	149.1
45°	7604.2	5607.5	960.7	490.9	358.9	253.4	198.0	162.4	135.9	124.1	121.4
47.5°	8179.5	5808.0	764.1	447.4	304.9	215.1	168.9	134.6	112.2	100.3	99.0
50°	9203.7	6279.2	638.8	399.9	254.7	183.4	139.9	109.5	91.1	80.5	79.2
52.5°	10563.0	7118.5	570.1	353.7	211.2	155.8	114.9	87.1	71.3	63.3	62.0
55°	12062.1	8134.7	525.2	303.5	172.9	129.3	91.1	68.7	55.4	48.8	46.2
57.5°	13525.7	9015.0	483.0	254.7	143.8	105.5	72.6	54.1	43.6	37.0	35.7
60°	14870.5	9823.9	434.2	204.6	117.5	83.2	56.7	42.2	34.3	27.8	27.8
62.5°	16310.3	10449.4	366.8	159.7	96.3	63.3	46.2	38.3	27.8	23.8	22.5
65°	17835.9	10914.0	287.7	124.1	75.3	47.5	38.3	39.6	22.5	17.1	15.8
67.5°	18963.0	10821.6	212.5	97.6	58.0	37.0	37.0	42.2	19.8	13.2	11.9
69°	18714.8	10070.7	178.2	84.5	50.1	31.7	34.3	42.2	18.4	11.9	10.5
70°	17995.5	9239.3	157.1	75.3	44.9	29.1	33.0	40.9	17.1	11.9	10.5
72.5°	14986.6	6958.8	122.8	56.7	35.7	23.8	27.8	35.7	17.1	11.9	9.2
75°	11272.9	4454.0	93.7	40.9	26.4	18.4	21.1	26.4	17.1	10.5	9.2
77.5°	6134.1	1606.1	67.4	27.8	18.4	14.5	14.5	19.8	15.8	7.9	5.3
80°	1577.0	403.8	42.2	18.4	14.5	10.5	9.2	13.2	9.2	1.3	0.0
82.5°	389.3	91.1	22.5	13.2	10.5	4.0	4.0	6.6	4.0	0.0	0.0
85°	213.8	44.9	14.5	9.2	5.3	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	109.5	13.2	4.0	2.6	1.3	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)