

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: P383686

Luminaire Tested: **GLEON-SA9C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41831.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

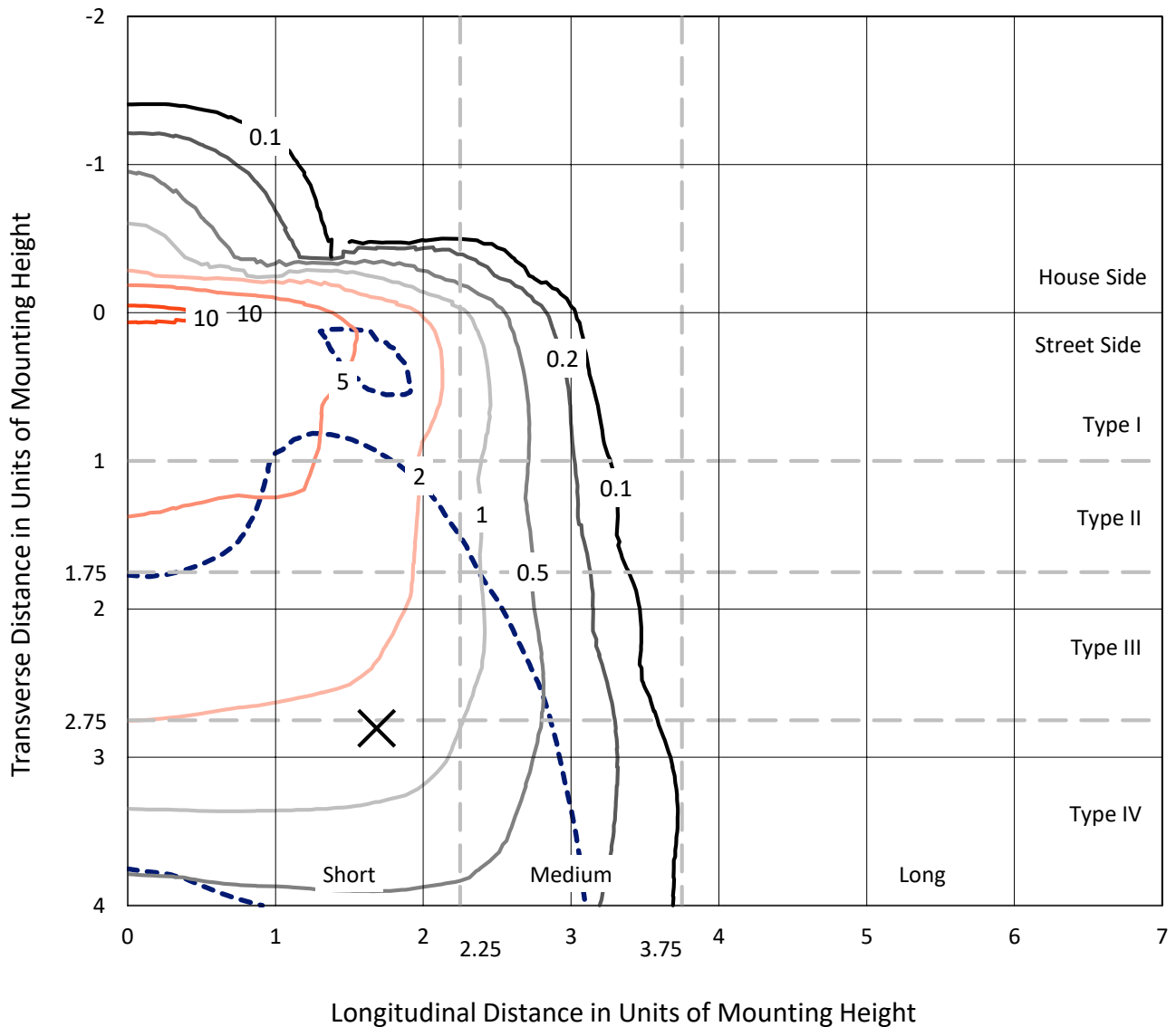
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

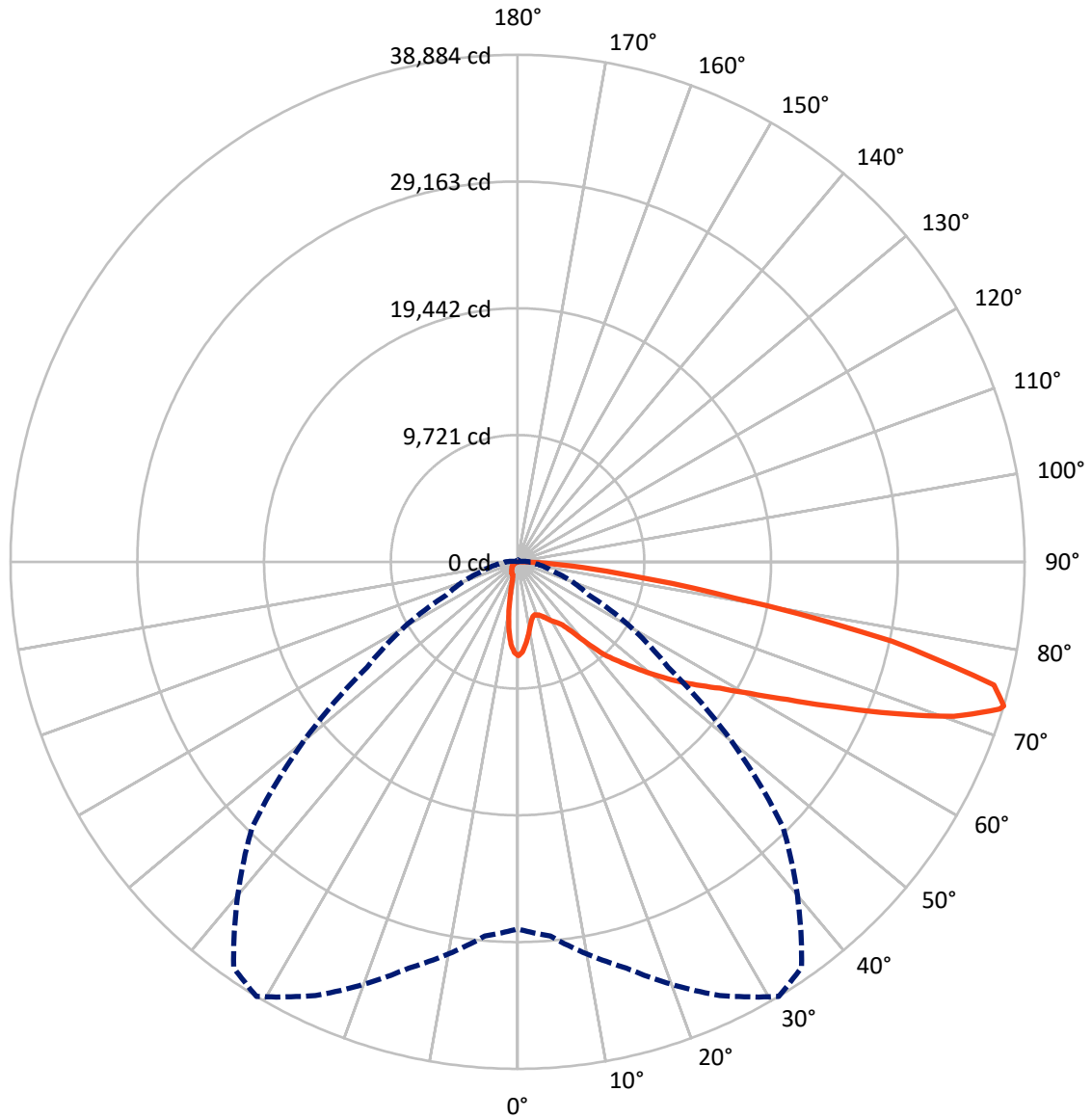
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3813.1	0.0	3813.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	38018.1	0.0	38018.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	41831.1	0.0	41831.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.7	1.4
10°-20°	1295.7	3.1
20°-30°	1941.3	4.6
30°-40°	3088.7	7.4
40°-50°	5515.5	13.2
50°-60°	8558.5	20.5
60°-70°	11377.3	27.2
70°-80°	8558.1	20.5
80°-90°	899.3	2.1
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°	41831.1	100.0
0°-180°	41831.1	100.0

Coefficient of Utilization



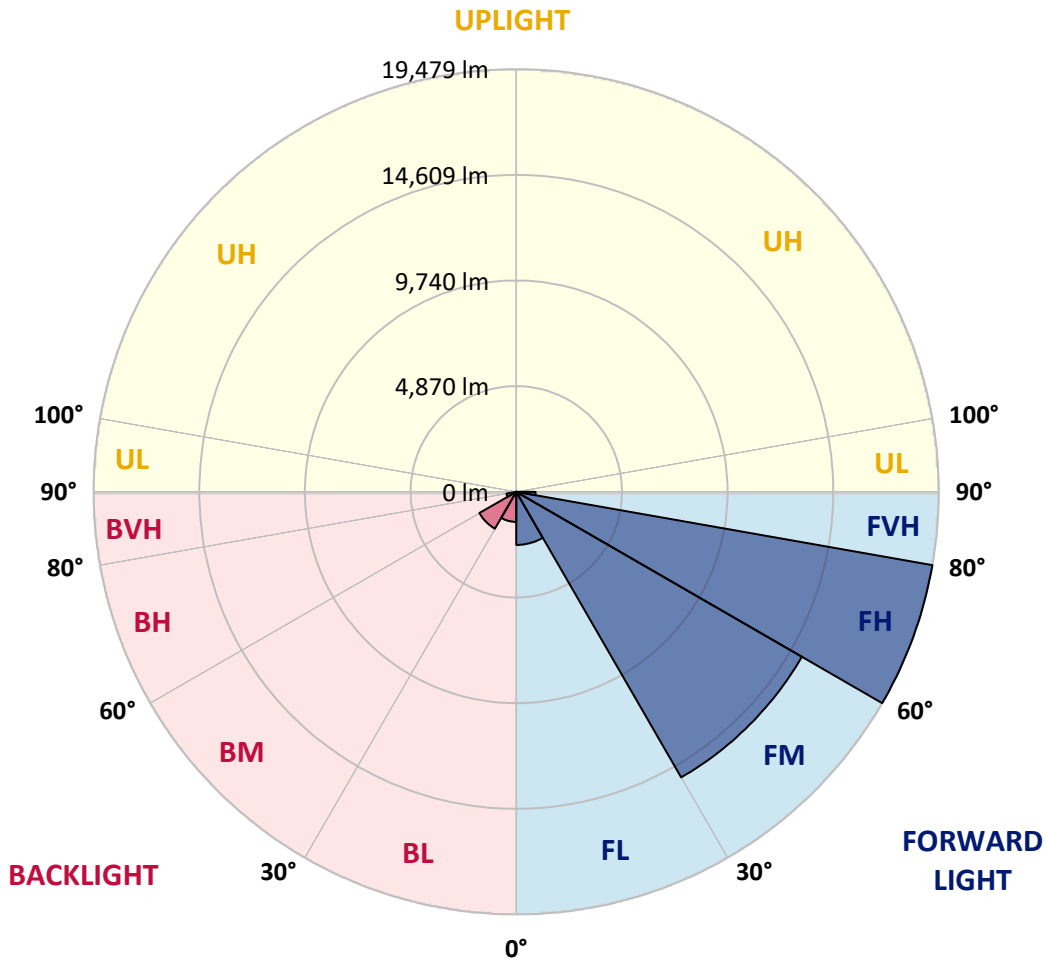
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.2	5.9			
FM (30°-60°)	15200.0	36.3			
FH (60°-80°)	19479.2	46.6			G5
FVH (80°-90°)	891.7	2.1			G5
BL (0°-30°)	1386.6	3.3	B3/2500		
BM (30°-60°)	1962.7	4.7	B2/2500		
BH (60°-80°)	456.2	1.1	B1/500		G1/500
BVH (80°-90°)	7.6	0.0			G0/10
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1
2.5°	6820.5	6849.1	6879.9	6886.0	6937.1	6939.2	7012.9	7068.2	7123.5	7176.6	7195.1
5°	6120.5	6167.5	6222.7	6278.1	6386.5	6429.5	6609.6	6793.9	6969.9	7137.8	7219.7
7.5°	5373.3	5426.5	5504.3	5641.5	5762.2	5846.1	6130.7	6458.1	6785.7	7094.8	7272.9
10°	4691.6	4740.7	4822.6	4967.9	5154.3	5268.9	5651.7	6106.1	6587.2	7055.9	7352.7
12.5°	4257.7	4284.3	4329.4	4484.9	4652.8	4781.7	5232.0	5795.0	6423.4	7053.9	7481.6
15°	4177.9	4186.0	4149.2	4218.8	4349.8	4474.7	4931.1	5543.2	6298.5	7086.6	7649.5
17.5°	4304.8	4300.7	4177.9	4169.7	4274.0	4376.4	4783.8	5369.2	6210.5	7162.3	7866.5
20°	4497.1	4482.9	4269.9	4231.1	4341.6	4437.8	4773.5	5303.7	6177.7	7289.3	8130.5
22.5°	4753.0	4728.5	4394.9	4353.9	4472.6	4573.0	4900.4	5367.1	6206.4	7459.2	8437.6
25°	5070.3	5033.5	4609.8	4564.8	4685.5	4785.8	5127.6	5549.3	6292.4	7665.9	8826.5
27.5°	5428.6	5375.3	4953.7	4837.0	4974.1	5078.5	5430.6	5827.7	6427.5	7884.9	9303.5
30°	5766.3	5696.7	5316.0	5123.5	5291.4	5408.1	5758.1	6159.3	6644.4	8222.7	9956.5
32.5°	6106.1	6028.3	5639.4	5410.1	5561.6	5688.5	6095.9	6615.8	7051.8	8738.5	10824.4
35°	6888.0	6806.2	6329.2	5950.5	5948.5	6020.1	6568.7	7240.1	7590.2	9457.0	11860.1
37.5°	8204.2	8157.2	7702.8	6984.3	6791.8	6712.0	7213.5	7985.2	8363.9	10445.6	13028.9
40°	9645.3	9604.3	9094.7	8443.7	8151.0	7954.5	8138.7	9023.1	9457.0	11653.4	14222.3
42.5°	11272.7	11078.2	10169.3	9974.8	9712.9	9563.5	9397.6	10302.4	10799.8	12967.5	15405.5
45°	12750.6	12423.0	11244.0	10949.2	10889.9	10926.7	11018.8	12021.8	12310.5	14529.3	16584.5
47.5°	13630.8	13372.8	12468.1	12185.6	12169.2	12412.8	13108.7	13964.4	13814.9	15890.6	17622.4
50°	14468.0	14234.6	13483.4	13553.0	13628.7	13960.3	15481.2	15962.3	15188.5	17124.9	18574.1
52.5°	15145.5	14789.3	14396.3	14787.3	15159.8	15694.1	17929.4	17755.4	16162.8	18107.4	19388.9
55°	15536.4	15374.7	15565.1	15958.2	16658.2	17526.1	20240.4	19247.6	16875.2	19004.0	19931.3
57.5°	16969.4	16652.1	17030.7	17370.6	18283.5	19497.4	22219.8	20359.2	17389.0	19558.8	20056.2
60°	18703.1	18447.3	18670.4	19235.3	20467.6	21894.3	24070.3	21265.9	17657.1	19914.9	19732.8
62.5°	21462.5	21124.7	20985.5	21618.1	23251.5	24809.3	25474.5	21894.3	17597.8	19757.3	18623.3
65°	25159.2	24809.3	24187.0	24760.1	26837.8	27937.0	27044.5	22027.4	17188.4	18482.1	15819.0
67.5°	28946.2	28692.3	28160.1	29126.3	31001.3	31355.4	28704.6	21703.9	15870.1	14985.8	11176.4
70°	31447.6	31339.0	31685.0	33822.1	35494.4	35392.0	30227.5	19966.1	12369.8	9215.4	5528.8
72.5°	29644.2	30164.1	32718.7	36593.6	38636.5	37801.4	29445.6	15331.8	7070.3	3545.4	1598.7
73°	28149.9	28815.2	32254.1	36698.0	38884.2	37969.2	28788.5	14072.9	6026.3	2798.2	1211.9
75°	19583.4	20400.1	26702.7	34178.2	37725.6	36176.0	23996.6	8613.6	2792.0	1240.4	489.2
77.5°	9508.1	10112.0	14703.4	24694.6	29339.2	28264.6	14938.8	3209.6	1260.9	775.8	225.2
80°	3549.5	3946.6	6382.4	12568.3	16955.0	17399.3	6570.8	1213.8	839.2	624.3	114.7
82.5°	929.3	1035.8	2354.0	5604.6	8689.4	9094.7	2071.6	612.0	614.1	513.7	69.6
85°	296.8	339.8	734.9	2515.7	4094.0	3594.5	540.4	296.8	446.2	382.8	38.9
87.5°	36.9	47.0	233.4	591.5	902.7	501.5	83.9	88.0	190.4	212.9	22.5
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°	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1	7197.1
2.5°	7213.5	7203.3	7205.3	7152.1	7117.3	7047.7	6976.1	6943.3	6908.5	6894.2	6908.5
5°	7250.3	7232.0	7178.7	7014.9	6841.0	6615.8	6404.9	6245.3	6044.7	5989.4	6046.8
7.5°	7307.7	7270.8	7115.3	6781.6	6394.7	5964.9	5481.8	5129.7	4841.1	4654.8	4722.4
10°	7391.6	7322.0	7008.8	6441.8	5749.9	4988.4	4302.7	3768.5	3389.8	3234.2	3228.1
12.5°	7532.9	7401.8	6877.8	5999.6	4961.9	3946.6	3047.9	2468.6	2161.6	1963.1	1959.0
15°	7688.4	7496.0	6712.0	5469.5	4044.8	2826.9	1963.1	1523.0	1324.4	1260.9	1252.7
17.5°	7878.8	7604.5	6497.1	4816.5	3084.8	1873.0	1281.4	1154.5	1146.3	1140.1	1140.1
20°	8118.3	7733.4	6220.7	4069.4	2188.2	1250.7	1089.0	1097.2	1101.3	1093.1	1095.1
22.5°	8396.7	7864.4	5891.2	3266.9	1479.9	1046.0	1041.9	1052.2	1056.2	1052.2	1054.2
25°	8720.0	8016.0	5490.0	2425.7	1068.5	992.8	1003.0	1017.3	1027.6	1027.6	1027.6
27.5°	9121.2	8200.1	5006.9	1692.8	923.2	937.5	966.2	992.8	1007.1	1011.2	1011.2
30°	9643.3	8429.4	4427.6	1160.6	839.2	863.8	917.0	968.3	994.8	998.9	1000.9
32.5°	10302.4	8687.3	3756.2	857.7	767.6	786.0	843.3	929.3	980.5	988.7	988.7
35°	11057.7	8986.2	3033.6	747.1	716.5	722.6	767.6	865.9	956.0	978.4	980.5
37.5°	11884.7	9280.9	2307.0	698.0	673.4	673.4	706.2	790.1	896.6	966.2	974.4
40°	12656.4	9459.0	1617.1	659.2	634.6	634.6	663.3	724.7	824.9	929.3	951.9
42.5°	13368.7	9520.4	1125.9	622.3	597.7	603.8	628.4	677.5	753.2	857.7	878.2
45°	14101.6	9510.2	820.9	579.3	560.9	579.3	597.7	634.6	689.8	749.2	753.2
47.5°	14654.3	9424.2	651.0	538.3	526.0	550.6	567.0	591.5	622.3	618.2	618.2
50°	15172.1	9215.4	524.0	483.1	491.3	519.9	528.1	536.3	538.3	499.5	495.4
52.5°	15565.1	8889.9	419.7	423.8	456.5	485.1	477.0	464.7	444.2	397.1	388.9
55°	15696.1	8263.6	329.6	350.1	405.3	442.1	411.5	384.8	346.0	307.0	298.8
57.5°	15458.7	7455.1	268.2	272.3	341.9	372.5	337.8	307.0	264.1	231.3	225.2
60°	14955.2	6556.4	221.1	204.7	264.1	290.6	268.2	237.5	198.5	174.0	172.0
62.5°	13956.3	5598.4	182.2	159.7	200.6	223.1	208.8	186.3	153.5	137.1	135.1
65°	11856.0	4478.8	147.4	128.9	155.6	174.0	161.7	145.3	120.7	108.5	106.5
67.5°	8275.9	3027.4	120.7	106.5	122.8	137.1	126.9	118.7	96.2	94.2	96.2
70°	3991.6	1459.5	100.3	86.0	96.2	106.5	102.4	96.2	92.1	106.5	122.8
72.5°	1144.2	489.2	79.8	71.6	77.8	83.9	88.0	86.0	100.3	128.9	149.4
73°	880.2	395.1	75.7	67.5	73.7	81.9	86.0	83.9	102.4	131.0	149.4
75°	376.6	190.4	57.3	55.2	61.4	71.6	75.7	75.7	102.4	133.0	143.3
77.5°	169.9	102.4	36.9	42.9	53.2	57.3	63.4	63.4	81.9	102.4	102.4
80°	96.2	55.2	28.7	32.8	38.9	38.9	38.9	34.8	36.9	40.9	45.0
82.5°	61.4	36.9	22.5	26.6	24.6	20.5	16.4	16.4	14.3	16.4	20.5
85°	34.8	20.5	20.5	16.4	10.2	8.2	10.2	8.2	2.0	0.0	2.0
87.5°	20.5	12.3	6.1	0.0	0.0	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)