

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: P321733

Luminaire Tested: **GLEON-SA9C-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35751 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

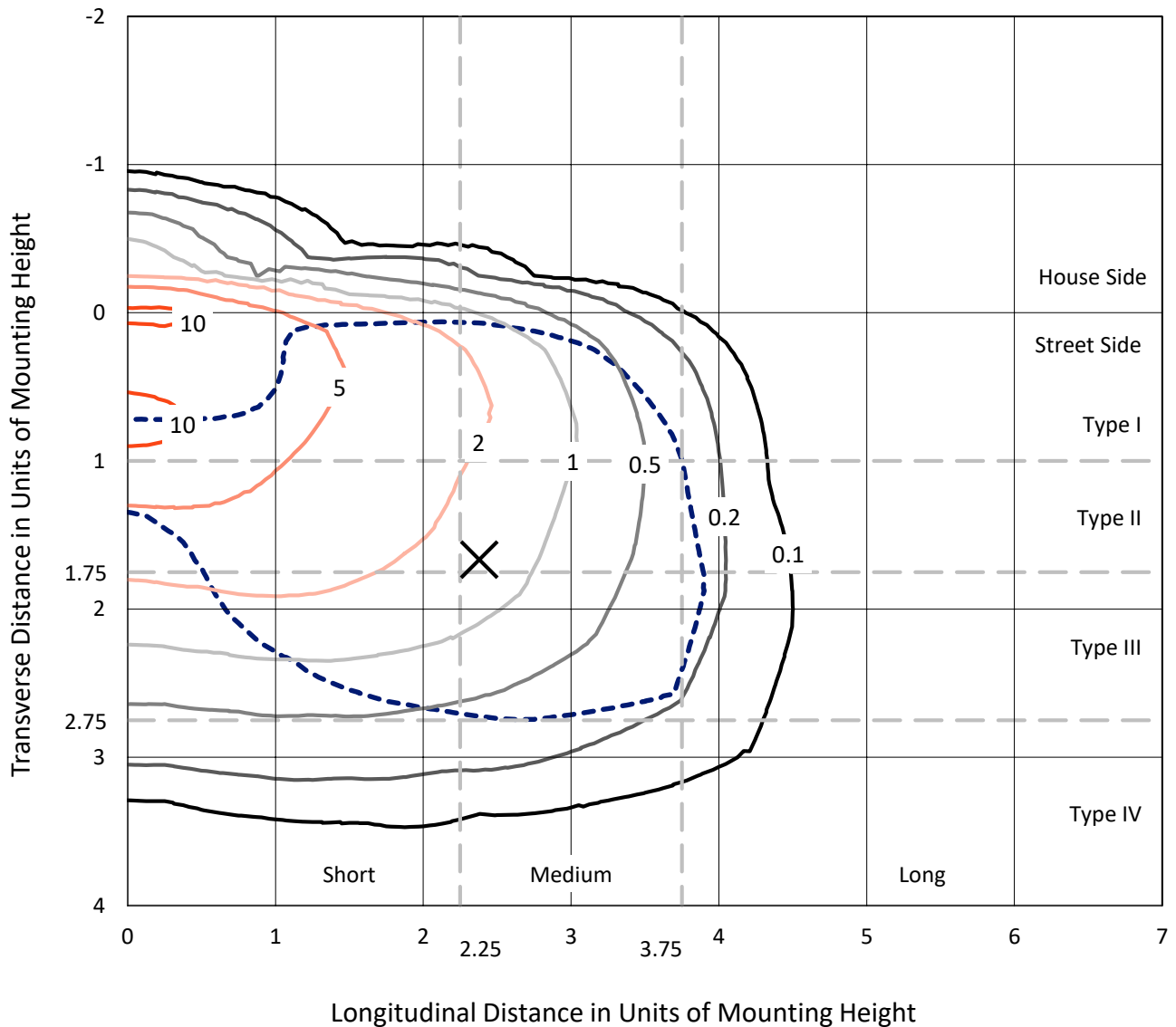
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

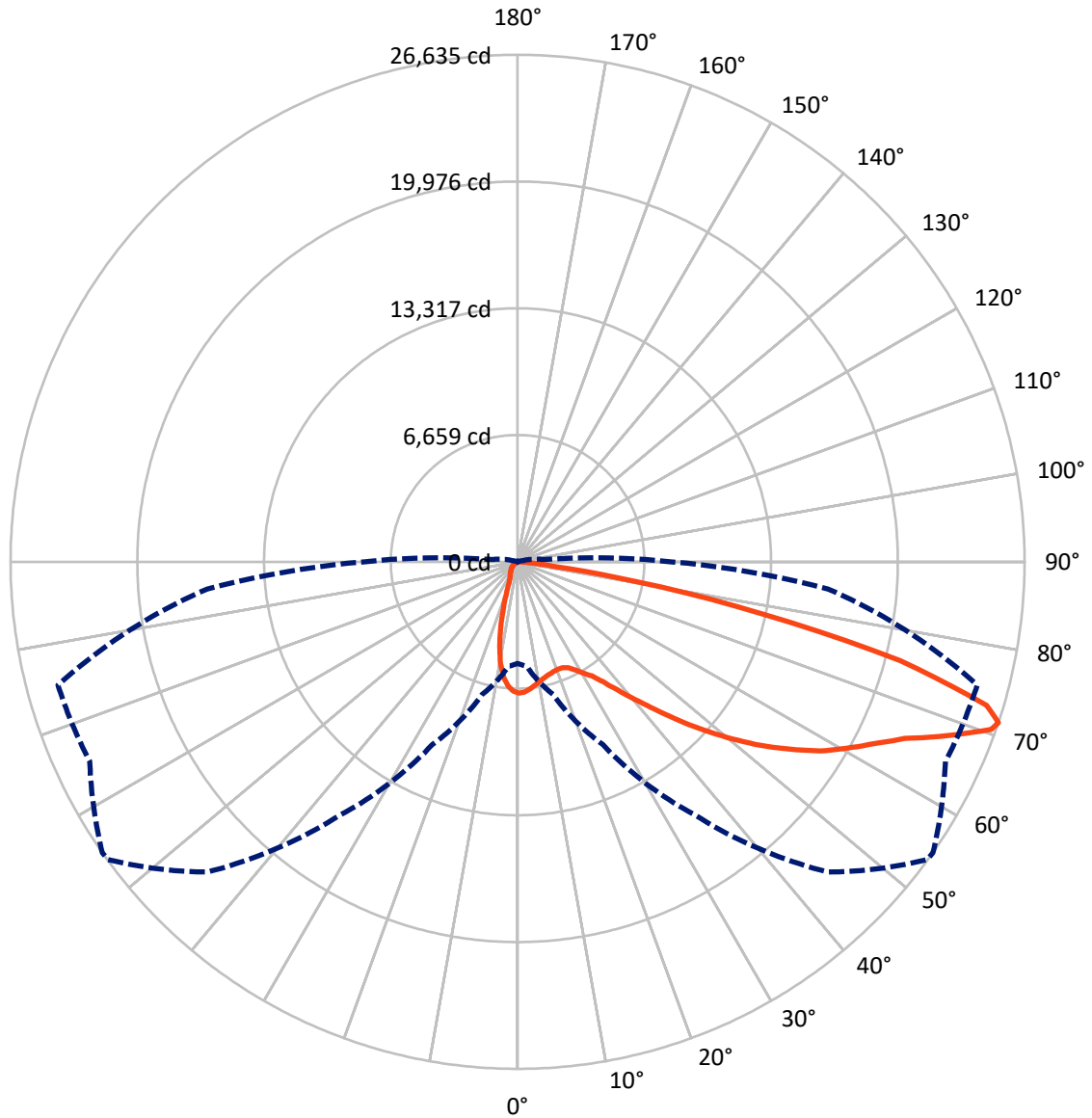
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2830.5	0.0	2830.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	32920.5	0.0	32920.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	35751.0	0.0	35751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.9	1.6
10°-20°	1327.2	3.7
20°-30°	2132.8	6.0
30°-40°	3623.7	10.1
40°-50°	5624.4	15.7
50°-60°	7561.9	21.2
60°-70°	9250.7	25.9
70°-80°	5408.7	15.1
80°-90°	233.8	0.7
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°	35751.0	100.0
0°-180°	35751.0	100.0

Coefficient of Utilization

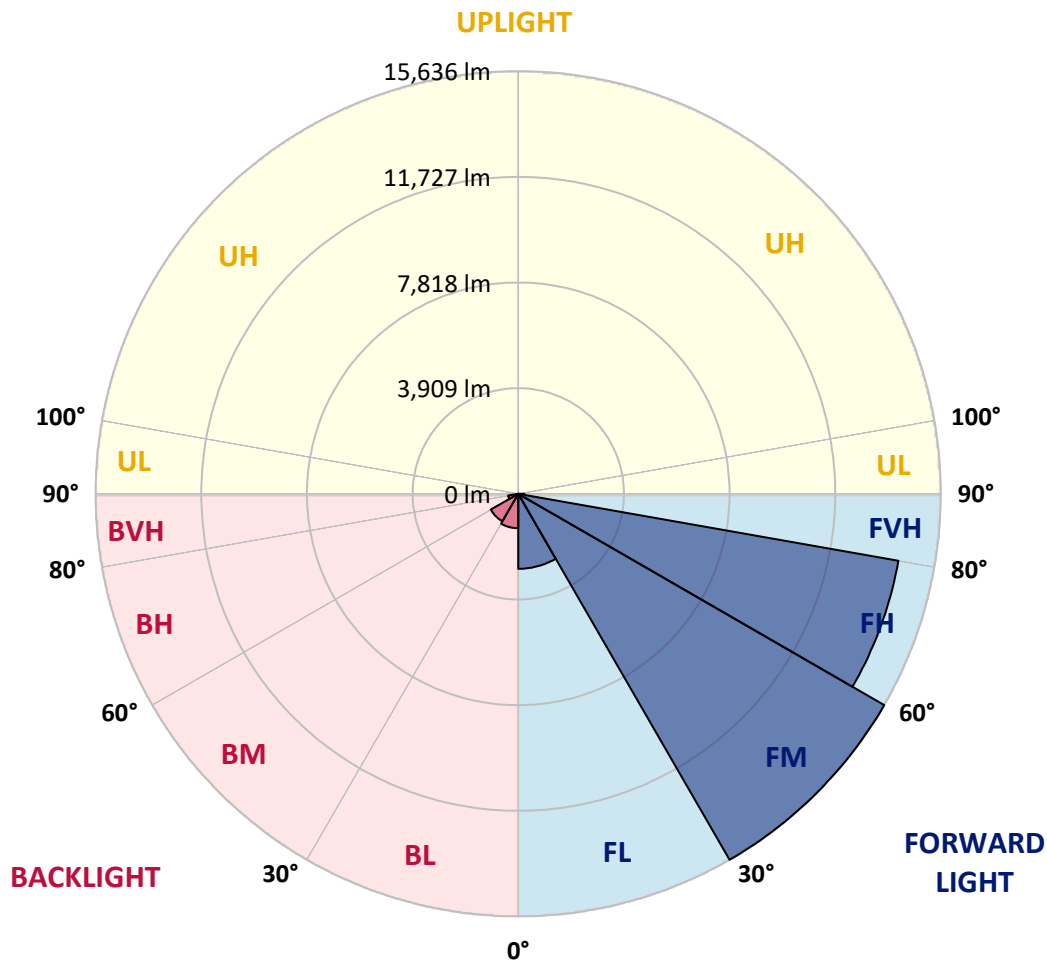


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.8	7.8			
FM (30°-60°)	15636.5	43.7			
FH (60°-80°)	14280.2	39.9			G5
FVH (80°-90°)	230.1	0.6			G3/500
BL (0°-30°)	1274.0	3.6	B3/2500		
BM (30°-60°)	1173.6	3.3	B2/2500		
BH (60°-80°)	379.2	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7
2.5°	6692.4	6700.5	6729.4	6742.2	6772.7	6824.1	6849.8	6851.4	6893.1	6909.2	6922.0
5°	6218.9	6267.0	6315.2	6366.6	6459.7	6583.3	6705.3	6716.5	6851.4	6950.9	7003.9
7.5°	5811.1	5854.5	5912.3	5994.1	6125.8	6320.0	6523.9	6548.0	6803.2	7029.6	7148.3
10°	5392.2	5427.5	5511.0	5631.3	5812.7	6072.8	6347.3	6387.4	6759.9	7135.5	7344.2
12.5°	4944.3	4965.2	5066.3	5239.7	5506.1	5836.8	6198.0	6251.0	6732.6	7257.5	7575.4
15°	4604.0	4613.6	4709.9	4889.7	5194.7	5624.9	6082.4	6146.6	6739.0	7403.6	7827.4
17.5°	4517.3	4522.1	4573.5	4697.1	4966.8	5435.5	5990.9	6069.6	6758.3	7546.5	8081.0
20°	4868.8	4835.1	4782.2	4762.9	4878.5	5321.5	5936.4	6024.6	6783.9	7673.3	8309.0
22.5°	5833.6	5734.1	5514.2	5220.4	5042.2	5329.6	5950.8	6039.1	6865.8	7829.0	8572.2
25°	7265.5	7127.5	6753.4	6175.5	5620.1	5560.7	6071.2	6161.1	7024.7	8015.2	8824.3
27.5°	8894.9	8758.4	8300.9	7475.8	6528.7	6018.2	6347.3	6430.8	7260.7	8180.5	9016.9
30°	10455.2	10416.7	9877.3	8939.8	7671.7	6759.9	6703.7	6774.3	7435.7	8280.1	9169.4
32.5°	11778.0	11717.0	11283.6	10371.8	8980.0	7650.8	7122.7	7143.5	7567.3	8408.5	9368.5
35°	13004.4	12929.0	12548.5	11686.5	10322.0	8739.2	7768.0	7737.5	7854.7	8666.9	9657.4
37.5°	14075.2	14144.2	13722.0	12901.7	11526.0	9870.9	8638.1	8546.5	8304.2	9087.5	10076.4
40°	14970.9	14970.9	14751.0	14067.1	12826.2	11041.2	9622.1	9501.7	8980.0	9736.1	10607.7
42.5°	15293.6	15362.6	15444.5	15057.6	13990.1	12258.0	10718.5	10593.3	9931.9	10655.9	11278.7
45°	15312.8	15422.0	15841.0	15839.4	15041.5	13466.8	11954.6	11895.2	11151.9	11837.4	12110.3
47.5°	15041.5	15178.0	15868.3	16260.0	15874.7	14592.1	13306.2	13232.4	12585.5	13285.4	12980.4
50°	14622.6	14773.5	15576.1	16425.3	16441.4	15571.3	14730.1	14619.4	14163.4	14940.4	13879.3
52.5°	13872.9	14165.1	15314.4	16463.8	16813.8	16417.3	16085.0	16036.8	15929.3	16534.5	14595.3
55°	12269.2	12593.5	14657.9	16476.7	17158.9	17166.9	17354.8	17367.6	17584.3	18024.2	15128.2
57.5°	11511.5	11694.5	13511.7	16537.7	17671.0	18017.7	18648.6	18748.1	19083.7	19438.4	15736.6
60°	11034.7	11251.5	12946.6	16454.2	18475.3	19133.4	19847.8	19881.5	20241.1	20897.6	16560.1
62.5°	10654.3	10867.8	12590.3	16133.1	19379.0	20475.4	21019.6	21022.8	21292.5	22636.2	17496.0
65°	9715.2	9895.0	11869.5	15771.9	19976.2	21803.0	22380.9	22360.0	22580.0	24469.4	18582.8
67.5°	8357.1	8495.2	10397.4	14402.6	19751.5	23010.2	24435.7	24366.7	24100.2	26053.8	19009.8
70°	6461.3	6511.0	8195.0	12002.7	17645.3	23474.1	26421.4	26386.1	25032.8	25769.7	17444.7
71°	5340.8	5504.5	7222.2	10593.3	16234.3	23045.5	26614.1	26634.9	24798.5	24995.9	16367.5
72.5°	3101.4	3241.1	5234.8	8135.6	13783.0	21257.2	25615.6	25766.5	23703.7	22735.7	13980.4
75°	664.6	711.1	1940.8	3937.8	7581.8	14898.7	20218.6	20756.4	19319.6	15466.9	8426.2
77.5°	462.3	499.2	831.5	1786.7	2505.9	7361.8	12559.8	13166.6	11542.0	5812.7	2696.9
80°	366.0	407.7	648.5	882.9	677.4	2374.2	5883.4	6254.2	3849.5	1297.1	454.3
82.5°	203.9	242.4	505.7	476.8	260.1	451.1	1647.0	1862.1	770.5	261.7	107.6
85°	59.4	72.2	325.9	346.7	110.8	86.7	280.9	348.3	146.1	69.0	48.2
87.5°	0.0	0.0	157.3	133.2	32.1	12.8	25.7	28.9	28.9	28.9	32.1
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°	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7	6894.7
2.5°	6922.0	6933.2	6893.1	6840.1	6783.9	6714.9	6642.7	6586.5	6584.9	6557.6	6530.3
5°	7007.1	7000.7	6889.9	6721.3	6522.3	6315.2	6117.7	5894.6	5820.8	5729.3	5698.8
7.5°	7164.4	7119.4	6885.1	6515.9	6079.2	5645.8	5197.9	4746.8	4554.2	4380.8	4350.3
10°	7361.8	7276.8	6854.6	6207.6	5406.6	4607.2	3931.3	3318.1	3048.4	2841.4	2831.7
12.5°	7567.3	7437.3	6769.5	5742.1	4525.3	3401.6	2623.0	2019.5	1794.7	1650.2	1663.1
15°	7782.4	7588.2	6586.5	5114.4	3522.0	2308.4	1611.7	1256.9	1167.0	1130.1	1139.8
17.5°	8002.4	7692.5	6331.3	4358.4	2531.5	1489.7	1115.7	1016.1	1016.1	1024.2	1027.4
20°	8193.4	7748.7	5955.6	3510.8	1716.1	1085.2	976.0	961.6	969.6	982.4	984.0
22.5°	8382.8	7751.9	5466.0	2651.9	1200.8	950.3	929.5	923.0	927.9	942.3	943.9
25°	8536.9	7713.4	4852.8	1886.2	958.4	895.8	886.1	882.9	886.1	903.8	903.8
27.5°	8599.5	7573.7	4104.7	1326.0	858.8	834.7	831.5	834.7	839.6	852.4	854.0
30°	8605.9	7329.7	3289.2	960.0	778.6	752.9	759.3	770.5	765.7	762.5	765.7
32.5°	8622.0	7047.2	2494.6	789.8	711.1	671.0	663.0	663.0	643.7	632.5	626.1
35°	8675.0	6714.9	1809.2	709.5	642.1	595.6	565.1	529.7	492.8	473.6	468.7
37.5°	8758.4	6366.6	1295.5	656.6	581.1	528.1	470.3	407.7	354.8	340.3	340.3
40°	8910.9	6007.0	958.4	614.8	533.0	467.1	380.5	298.6	250.4	242.4	242.4
42.5°	9151.7	5628.1	764.1	577.9	491.2	404.5	290.6	216.7	181.4	176.6	175.0
45°	9402.2	5210.8	667.8	542.6	446.3	332.3	215.1	160.5	139.7	134.8	134.8
47.5°	9652.6	4766.1	621.2	508.9	402.9	258.5	160.5	126.8	117.2	117.2	118.8
50°	9864.5	4302.2	587.5	472.0	346.7	195.8	126.8	107.6	104.3	110.8	112.4
52.5°	9917.5	3846.3	545.8	425.4	277.7	149.3	104.3	94.7	94.7	94.7	94.7
55°	9885.4	3493.1	491.2	367.6	205.5	118.8	89.9	83.5	81.9	81.9	81.9
57.5°	9994.5	3284.4	393.3	285.7	147.7	96.3	78.7	73.8	70.6	69.0	69.0
60°	10214.4	3148.0	280.9	205.5	110.8	80.3	67.4	62.6	57.8	54.6	54.6
62.5°	10506.6	3029.2	208.7	152.5	85.1	64.2	56.2	51.4	44.9	41.7	41.7
65°	10731.3	2817.3	158.9	114.0	64.2	51.4	43.3	41.7	32.1	28.9	27.3
67.5°	10387.8	2351.7	128.4	83.5	48.2	40.1	33.7	32.1	19.3	16.1	16.1
70°	8909.3	1637.4	102.7	61.0	35.3	32.1	27.3	20.9	14.4	12.8	12.8
71°	8079.4	1367.7	93.1	51.4	30.5	30.5	25.7	17.7	12.8	11.2	11.2
72.5°	6711.7	971.2	78.7	40.1	27.3	32.1	27.3	16.1	12.8	11.2	9.6
75°	3896.0	406.1	54.6	27.3	20.9	38.5	35.3	14.4	9.6	8.0	8.0
77.5°	1171.9	149.3	30.5	17.7	16.1	33.7	40.1	12.8	4.8	1.6	1.6
80°	213.5	64.2	19.3	11.2	11.2	20.9	30.5	6.4	0.0	0.0	0.0
82.5°	75.4	32.1	11.2	6.4	4.8	9.6	14.4	0.0	0.0	0.0	0.0
85°	43.3	22.5	6.4	3.2	0.0	1.6	3.2	0.0	0.0	0.0	0.0
87.5°	28.9	6.4	0.0	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)