

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: P382676

Luminaire Tested: **GLEON-SA0C-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382676
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-SA0C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 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: 50158.3 lumens
Efficiency: N/A
Efficacy: 89.9 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): 558
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

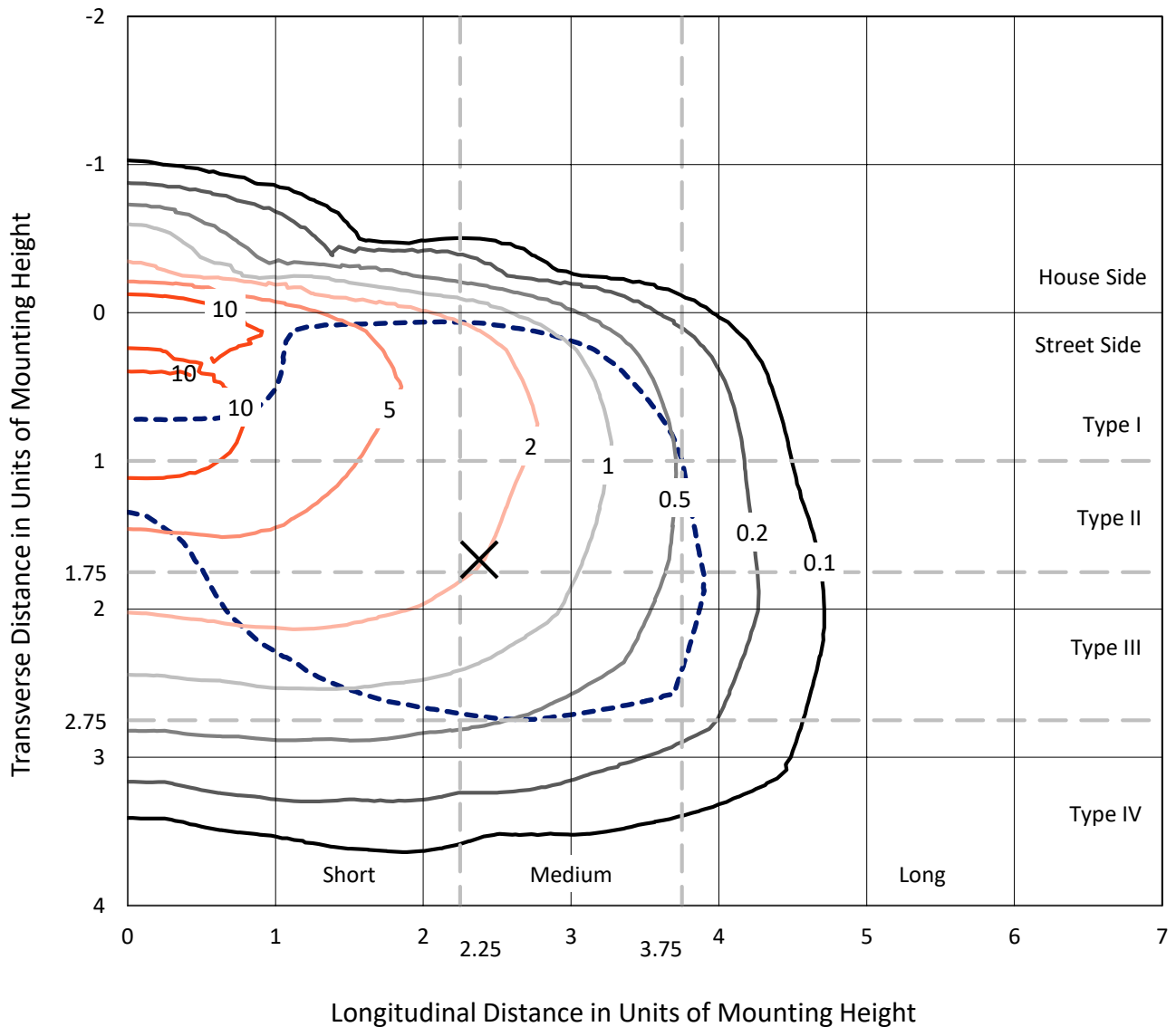




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Iso-Footcandle Lines of Horizontal Illumination

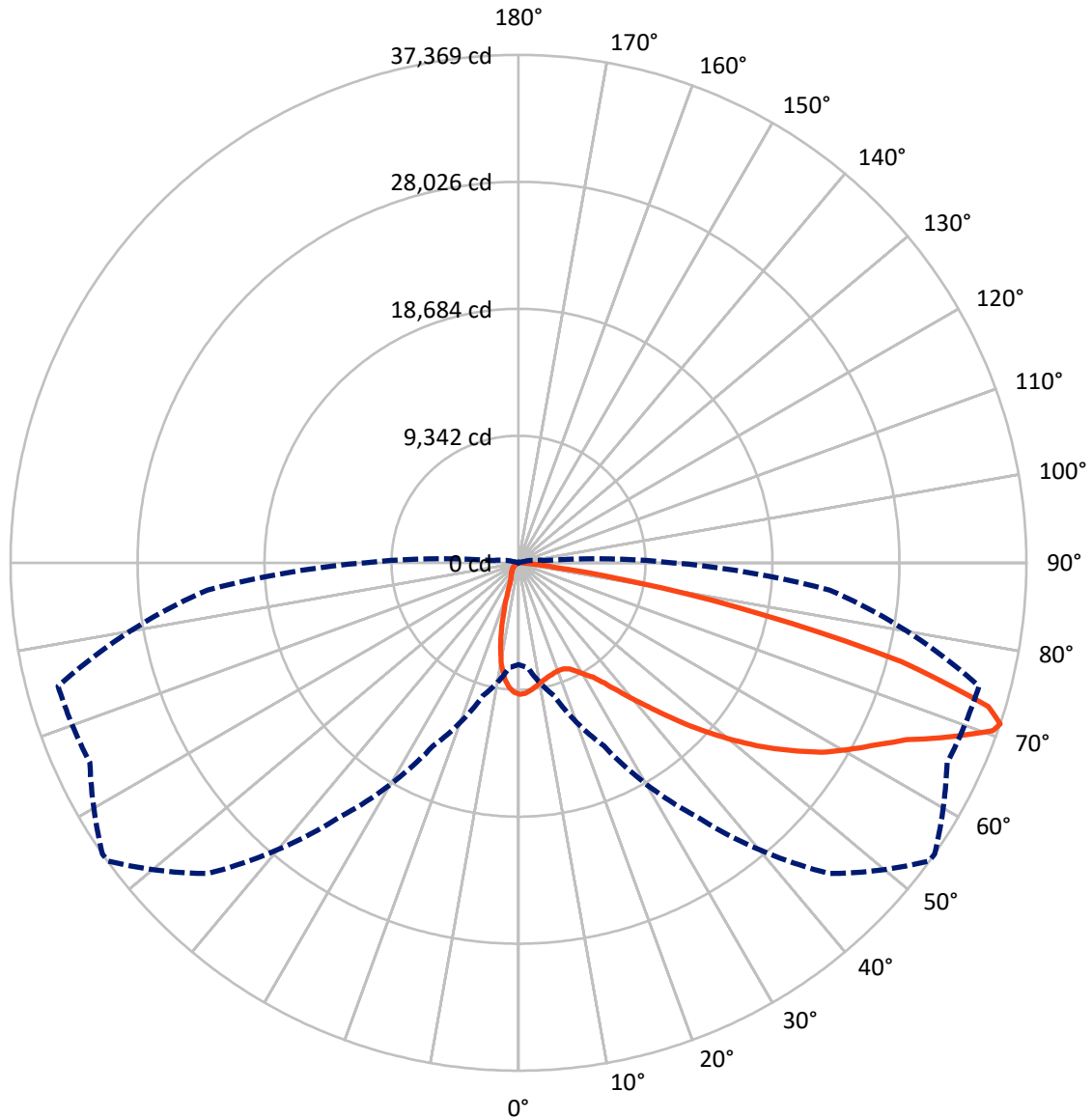
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	3971.2	0.0	3971.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	46187.1	0.0	46187.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	50158.3	0.0	50158.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.8	1.6
10°-20°	1862.0	3.7
20°-30°	2992.3	6.0
30°-40°	5084.0	10.1
40°-50°	7891.0	15.7
50°-60°	10609.3	21.2
60°-70°	12978.6	25.9
70°-80°	7588.3	15.1
80°-90°	328.0	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°	50158.3	100.0
0°-180°	50158.3	100.0

Coefficient of Utilization

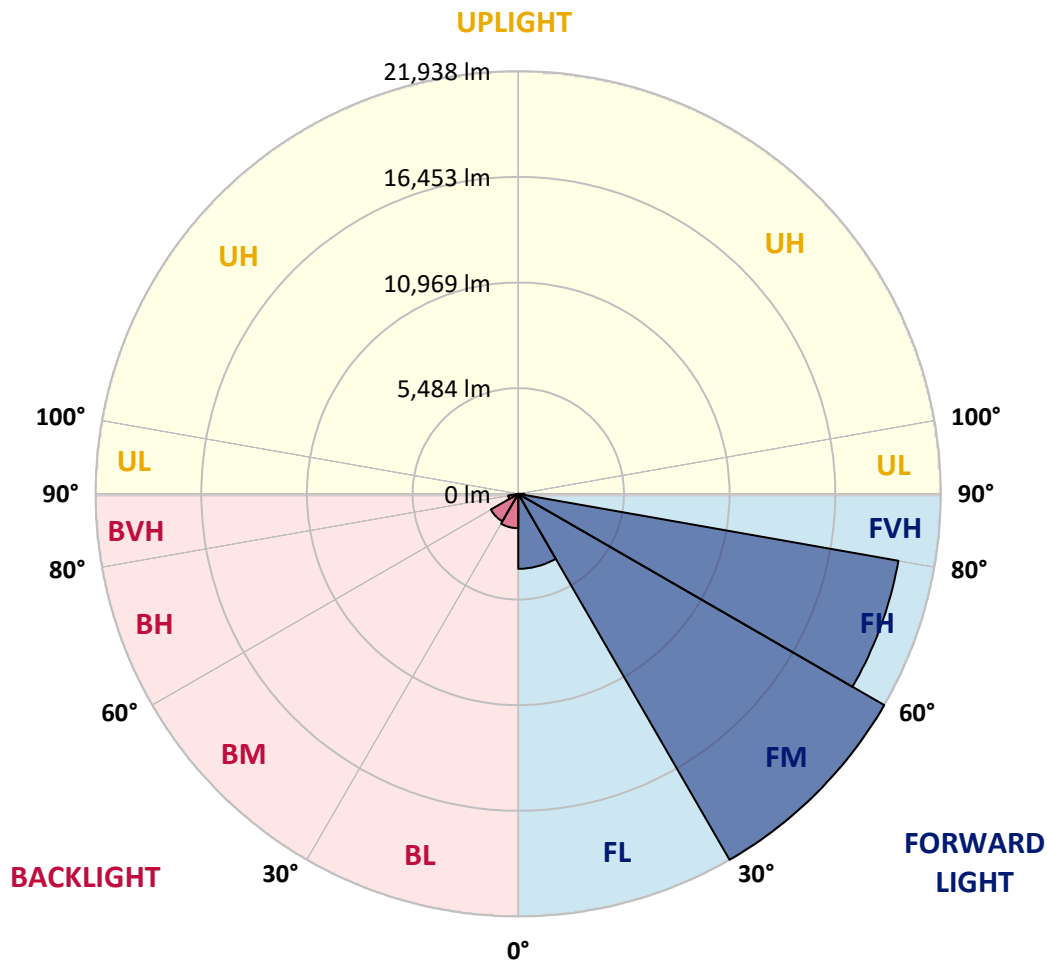


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3891.6	7.8			
FM (30°-60°)	21937.8	43.7			
FH (60°-80°)	20034.9	39.9			G5
FVH (80°-90°)	322.8	0.6			G3/500
BL (0°-30°)	1787.4	3.6	B3/2500		
BM (30°-60°)	1646.5	3.3	B2/2500		
BH (60°-80°)	532.0	1.1	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2
2.5°	9389.4	9400.7	9441.2	9459.2	9502.1	9574.1	9610.1	9612.4	9671.0	9693.5	9711.5
5°	8725.1	8792.6	8860.1	8932.2	9062.8	9236.3	9407.4	9423.2	9612.4	9752.0	9826.3
7.5°	8153.0	8213.7	8294.9	8409.7	8594.4	8866.9	9152.9	9186.7	9544.8	9862.4	10029.0
10°	7565.1	7614.7	7731.8	7900.7	8155.2	8520.0	8905.2	8961.5	9484.0	10011.1	10303.8
12.5°	6936.8	6966.0	7108.0	7351.2	7725.0	8189.0	8695.7	8770.1	9445.7	10182.2	10628.1
15°	6459.4	6472.9	6607.9	6860.2	7288.1	7891.7	8533.6	8623.7	9454.7	10387.1	10981.7
17.5°	6337.7	6344.5	6416.5	6590.0	6968.3	7625.9	8405.2	8515.6	9481.8	10587.6	11337.6
20°	6830.9	6783.6	6709.3	6682.3	6844.5	7466.1	8328.6	8452.5	9517.8	10765.5	11657.4
22.5°	8184.5	8044.8	7736.3	7324.2	7074.2	7477.3	8348.9	8472.8	9632.7	10984.0	12026.7
25°	10193.5	9999.8	9475.1	8664.2	7885.0	7801.6	8517.8	8643.9	9855.6	11245.3	12380.4
27.5°	12479.5	12288.0	11646.1	10488.5	9159.7	8443.5	8905.2	9022.3	10186.7	11477.2	12650.6
30°	14668.6	14614.5	13857.8	12542.5	10763.3	9484.0	9405.2	9504.3	10432.2	11616.9	12864.6
32.5°	16524.4	16438.8	15830.7	14551.4	12598.8	10733.9	9993.0	10022.3	10616.8	11797.0	13143.9
35°	18245.1	18139.2	17605.4	16396.0	14481.7	12260.9	10898.4	10855.6	11020.0	12159.6	13549.3
37.5°	19747.3	19844.1	19251.8	18100.9	16170.8	13848.8	12119.1	11990.7	11650.6	12749.7	14137.1
40°	21004.0	21004.0	20695.4	19736.0	17995.1	15490.6	13499.7	13330.7	12598.8	13659.6	14882.5
42.5°	21456.7	21553.6	21668.4	21125.6	19627.9	17197.8	15038.0	14862.3	13934.4	14950.1	15823.9
45°	21483.7	21636.9	22224.7	22222.4	21103.1	18893.7	16772.1	16688.8	15646.0	16607.7	16990.6
47.5°	21103.1	21294.5	22263.0	22812.6	22272.0	20472.5	18668.5	18564.9	17657.2	18639.2	18211.3
50°	20515.3	20727.0	21853.1	23044.5	23067.1	21846.4	20666.2	20510.8	19871.1	20961.2	19472.5
52.5°	19463.5	19873.5	21486.0	23098.6	23589.6	23033.3	22567.0	22499.5	22348.6	23197.7	20477.0
55°	17213.6	17668.5	20564.8	23116.5	24073.8	24085.1	24348.5	24366.6	24670.6	25287.7	21224.8
57.5°	16150.5	16407.3	18956.8	23202.1	24792.2	25278.7	26163.8	26303.5	26774.2	27271.9	22078.3
60°	15481.6	15785.6	18164.0	23085.1	25920.6	26843.9	27846.2	27893.5	28397.9	29319.2	23233.7
62.5°	14947.9	15247.4	17664.0	22634.7	27188.5	28726.8	29490.3	29494.8	29873.1	31758.2	24546.7
65°	13630.3	13882.6	16652.8	22127.9	28026.4	30589.4	31400.1	31370.9	31679.4	34330.3	26071.5
67.5°	11724.9	11918.7	14587.5	20206.8	27711.0	32283.1	34283.0	34186.1	33812.3	36553.2	26670.6
70°	9065.1	9134.9	11497.4	16839.7	24756.2	32933.9	37069.0	37019.4	35120.8	36154.6	24474.6
71°	7493.1	7722.8	10132.6	14862.3	22776.5	32332.6	37339.2	37368.5	34792.0	35069.0	22963.4
72.5°	4351.3	4547.2	7344.4	11414.2	19337.3	29823.6	35938.4	36150.1	33256.0	31897.9	19614.4
75°	932.4	997.7	2722.9	5524.6	10637.2	20902.6	28366.5	29120.9	27105.2	21699.9	11821.8
77.5°	648.6	700.4	1166.7	2506.7	3515.7	10328.6	17621.2	18472.6	16193.3	8155.2	3783.7
80°	513.5	572.1	909.8	1238.7	950.5	3331.0	8254.4	8774.5	5400.7	1819.8	637.4
82.5°	286.0	340.1	709.5	668.9	364.9	632.9	2310.8	2612.5	1081.1	367.1	150.9
85°	83.4	101.4	457.2	486.5	155.4	121.7	394.1	488.7	204.9	96.9	67.5
87.5°	0.0	0.0	220.7	187.0	45.1	18.0	36.1	40.5	40.5	40.5	45.1
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°	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2	9673.2
2.5°	9711.5	9727.2	9671.0	9596.6	9517.8	9420.9	9319.6	9240.8	9238.5	9200.2	9162.0
5°	9830.8	9821.9	9666.5	9430.0	9150.7	8860.1	8583.1	8270.1	8166.5	8038.1	7995.3
7.5°	10051.6	9988.5	9659.7	9141.6	8529.1	7920.9	7292.6	6659.7	6389.5	6146.3	6103.5
10°	10328.6	10209.2	9616.9	8709.2	7585.4	6463.8	5515.6	4655.3	4276.9	3986.4	3972.9
12.5°	10616.8	10434.5	9497.5	8056.1	6349.0	4772.4	3680.1	2833.3	2518.0	2315.3	2333.2
15°	10918.7	10646.2	9240.8	7175.5	4941.3	3238.6	2261.2	1763.5	1637.4	1585.6	1599.1
17.5°	11227.2	10792.5	8882.7	6114.7	3551.7	2090.0	1565.3	1425.6	1425.6	1436.9	1441.4
20°	11495.2	10871.3	8355.7	4925.6	2407.6	1522.5	1369.4	1349.1	1360.3	1378.3	1380.6
22.5°	11761.0	10875.9	7668.8	3720.6	1684.6	1333.3	1304.0	1295.0	1301.7	1322.1	1324.3
25°	11977.2	10821.8	6808.4	2646.3	1344.6	1256.8	1243.2	1238.7	1243.2	1268.0	1268.0
27.5°	12065.0	10625.9	5758.9	1860.3	1205.0	1171.1	1166.7	1171.1	1177.9	1195.9	1198.2
30°	12074.1	10283.5	4614.8	1346.8	1092.3	1056.3	1065.3	1081.1	1074.3	1069.8	1074.3
32.5°	12096.6	9887.2	3499.9	1108.1	997.7	941.4	930.2	930.2	903.1	887.4	878.4
35°	12170.9	9420.9	2538.2	995.5	900.9	835.6	792.7	743.2	691.4	664.4	657.7
37.5°	12288.0	8932.2	1817.5	921.1	815.3	741.0	659.9	572.1	497.7	477.5	477.5
40°	12501.9	8427.7	1344.6	862.6	747.8	655.3	533.8	418.9	351.4	340.1	340.1
42.5°	12839.8	7896.2	1072.0	810.8	689.2	567.6	407.6	304.1	254.5	247.7	245.5
45°	13191.2	7310.6	937.0	761.3	626.1	466.2	301.8	225.2	195.9	189.2	189.2
47.5°	13542.5	6686.7	871.6	713.9	565.3	362.6	225.2	177.9	164.4	164.4	166.7
50°	13839.7	6035.9	824.3	662.1	486.5	274.8	177.9	150.9	146.4	155.4	157.6
52.5°	13914.1	5396.3	765.7	596.8	389.7	209.4	146.4	132.8	132.8	132.8	132.8
55°	13869.1	4900.8	689.2	515.8	288.3	166.7	126.1	117.1	114.9	114.9	114.9
57.5°	14022.2	4608.0	551.8	400.9	207.2	135.2	110.4	103.6	99.1	96.9	96.9
60°	14330.7	4416.6	394.1	288.3	155.4	112.6	94.6	87.8	81.0	76.6	76.6
62.5°	14740.6	4249.9	292.8	214.0	119.3	90.1	78.8	72.1	63.1	58.6	58.6
65°	15056.0	3952.6	223.0	159.9	90.1	72.1	60.8	58.6	45.1	40.5	38.3
67.5°	14574.0	3299.4	180.2	117.1	67.5	56.3	47.3	45.1	27.0	22.5	22.5
70°	12499.7	2297.3	144.1	85.6	49.6	45.1	38.3	29.3	20.3	18.0	18.0
71°	11335.4	1918.9	130.6	72.1	42.8	42.8	36.1	24.8	18.0	15.7	15.7
72.5°	9416.5	1362.6	110.4	56.3	38.3	45.1	38.3	22.5	18.0	15.7	13.5
75°	5466.1	569.8	76.6	38.3	29.3	54.0	49.6	20.3	13.5	11.3	11.3
77.5°	1644.1	209.4	42.8	24.8	22.5	47.3	56.3	18.0	6.8	2.2	2.2
80°	299.6	90.1	27.0	15.7	15.7	29.3	42.8	9.0	0.0	0.0	0.0
82.5°	105.8	45.1	15.7	9.0	6.8	13.5	20.3	0.0	0.0	0.0	0.0
85°	60.8	31.5	9.0	4.5	0.0	2.2	4.5	0.0	0.0	0.0	0.0
87.5°	40.5	9.0	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)