

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: P383385

Luminaire Tested: **GLEON-SA7A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25135.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

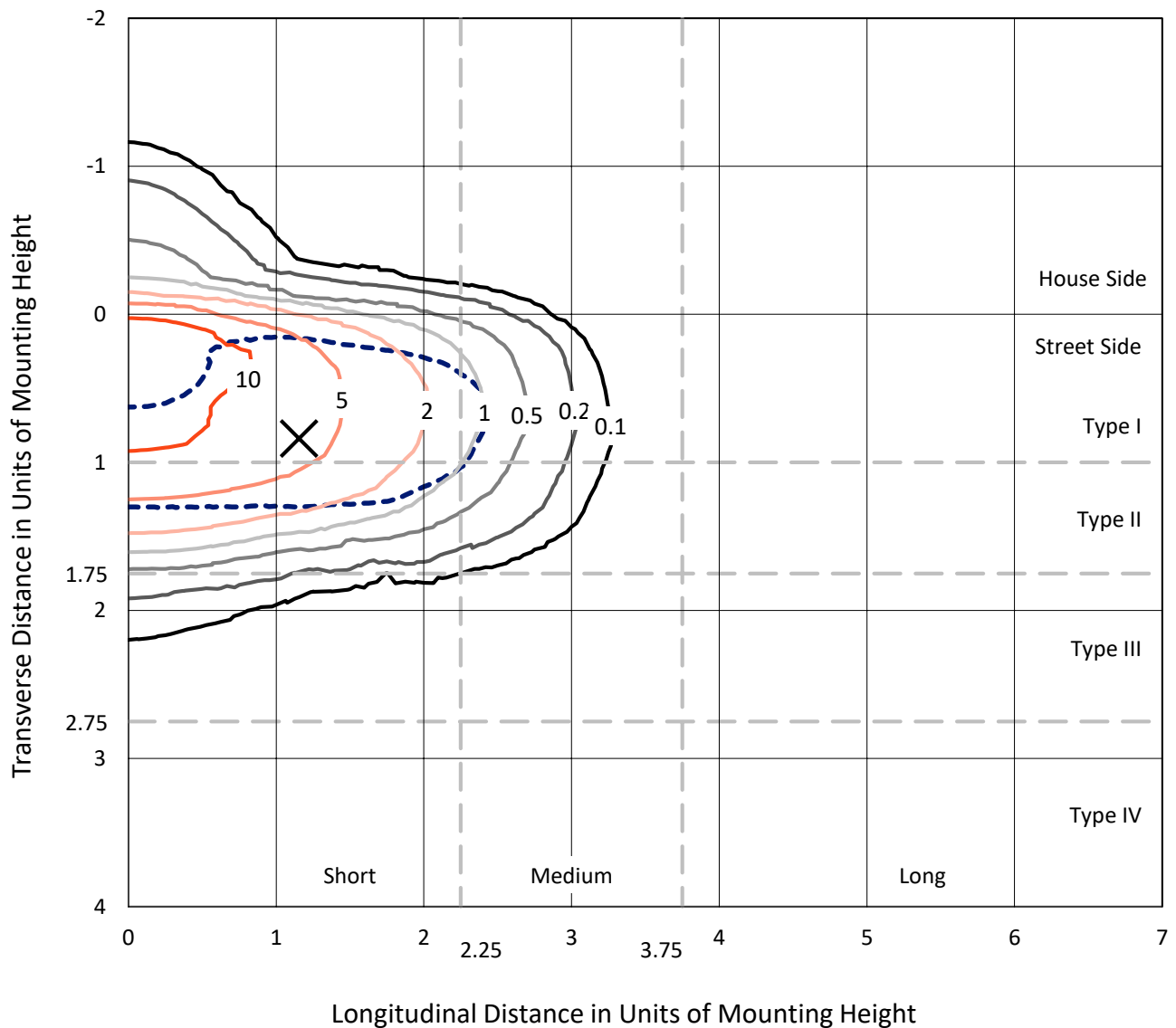
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

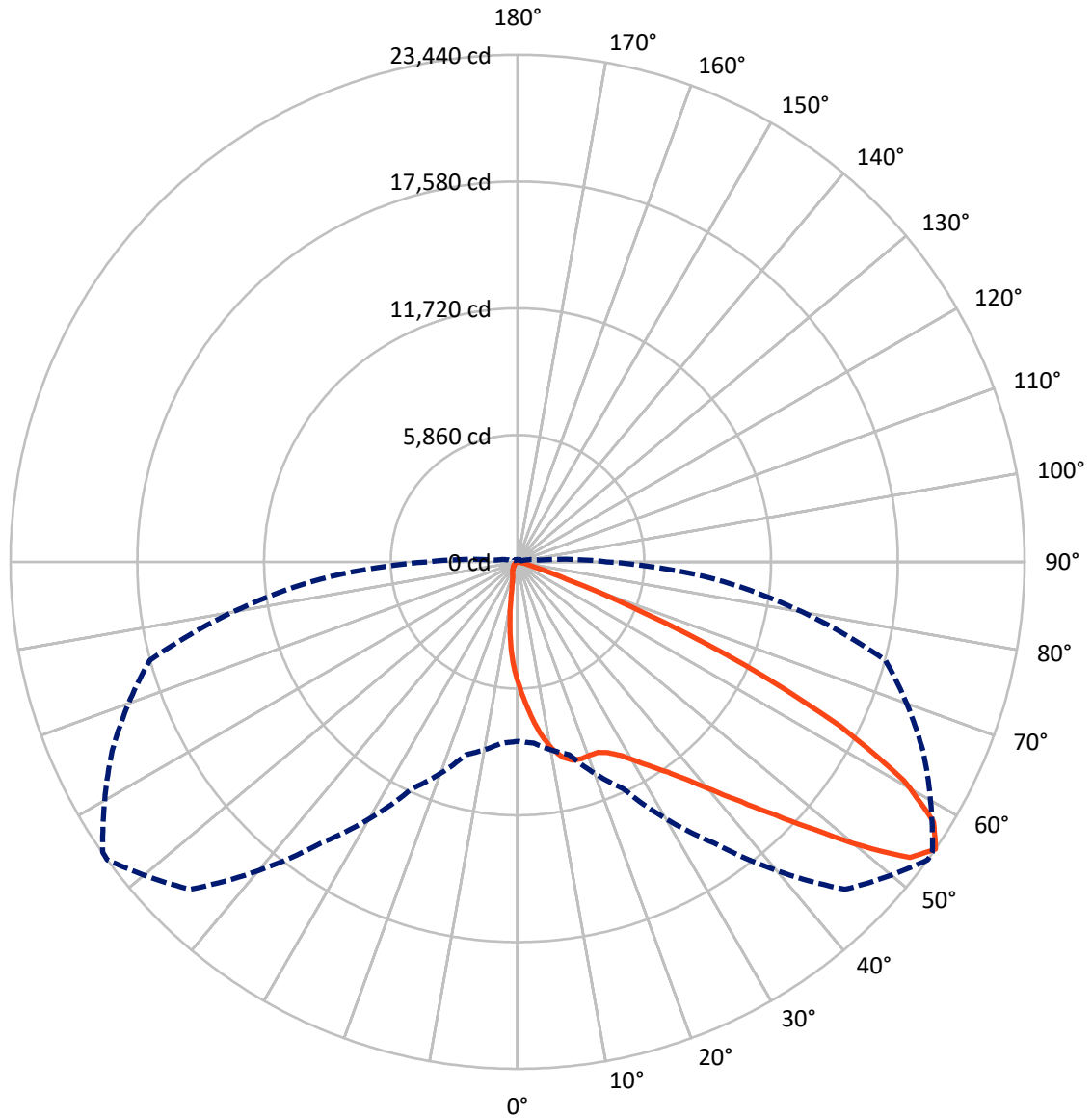
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.1	0.0	1254.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23881.9	0.0	23881.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	25135.9	0.0	25135.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.4	2.1
10°-20°	1421.8	5.7
20°-30°	2427.4	9.7
30°-40°	3895.6	15.5
40°-50°	6225.1	24.8
50°-60°	6670.4	26.5
60°-70°	3424.8	13.6
70°-80°	518.8	2.1
80°-90°	33.8	0.1
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°	25135.9	100.0
0°-180°	25135.9	100.0

Coefficient of Utilization

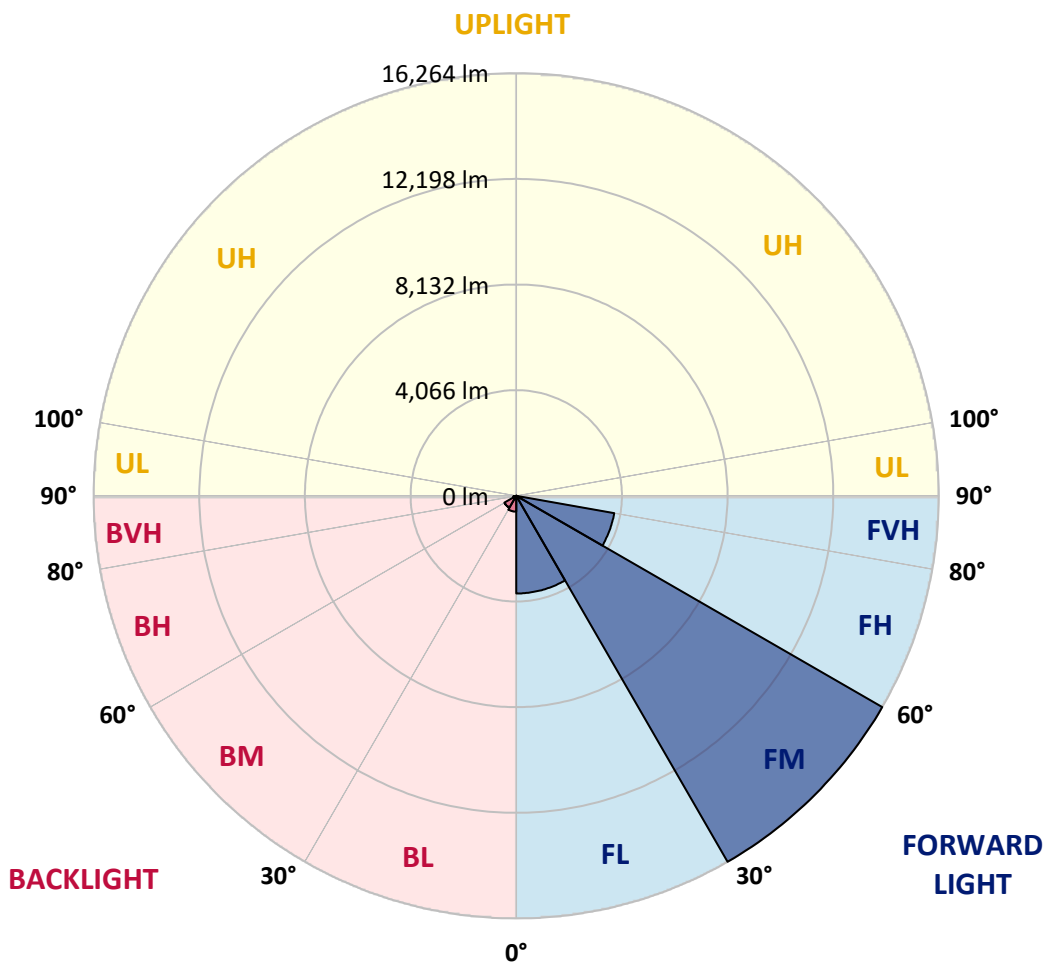


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3757.4	14.9			
FM (30°-60°)	16264.1	64.7			
FH (60°-80°)	3828.0	15.2			G2/5000
FVH (80°-90°)	32.4	0.1			G1/100
BL (0°-30°)	610.2	2.4	B2/1000		
BM (30°-60°)	527.0	2.1	B1/1000		
BH (60°-80°)	115.6	0.5	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4
2.5°	7064.5	6959.2	6962.5	6914.7	6739.9	6603.2	6460.9	6427.3	6205.9	5973.5	5750.0
5°	8285.7	8208.6	8190.2	8097.9	7854.7	7597.5	7321.8	7257.7	6824.6	6349.1	5881.3
7.5°	8913.1	8914.2	8899.0	8865.4	8713.4	8463.7	8127.2	8059.9	7470.5	6757.3	6018.1
10°	8730.7	8772.0	8856.7	8968.5	9084.6	9053.2	8800.2	8739.4	8099.0	7189.3	6170.0
12.5°	8305.2	8310.6	8405.1	8588.5	8922.8	9265.9	9270.2	9249.6	8699.3	7640.9	6337.2
15°	8093.6	8114.2	8148.9	8267.2	8584.2	9133.5	9526.4	9555.7	9249.6	8120.7	6515.2
17.5°	8232.5	8261.8	8232.5	8246.6	8430.0	8923.9	9570.9	9645.8	9730.5	8595.0	6683.5
20°	8609.2	8636.3	8584.2	8526.6	8562.5	8863.2	9539.4	9640.4	10107.2	9016.3	6824.6
22.5°	9117.1	9128.0	9048.8	8954.3	8928.3	9069.5	9565.5	9669.7	10408.9	9397.3	6913.6
25°	9676.2	9686.0	9587.2	9478.7	9416.7	9474.3	9779.4	9857.5	10674.9	9760.8	6964.6
27.5°	10285.2	10293.9	10170.1	10036.6	9965.0	9967.1	10132.2	10215.7	10958.2	10175.6	7005.9
30°	10928.9	10924.5	10810.6	10625.0	10533.8	10531.6	10640.1	10724.8	11368.5	10707.5	7062.3
32.5°	11651.8	11643.1	11481.4	11251.3	11148.2	11163.4	11260.0	11308.8	11877.6	11274.1	7163.2
35°	12603.8	12578.9	12334.6	12049.1	11859.2	11853.8	11935.2	11974.2	12526.8	11960.1	7331.6
37.5°	13839.2	13816.3	13485.3	13070.6	12803.6	12703.7	12800.3	12850.2	13452.7	12840.5	7601.8
40°	15057.1	15034.2	14837.8	14457.9	14046.4	13806.6	13882.6	13935.8	14608.8	13908.7	7942.7
42.5°	15897.2	15916.8	15985.2	16016.7	15631.3	15127.7	15162.3	15217.8	15823.5	15050.5	8332.3
45°	16118.7	16161.0	16547.5	17306.3	17450.6	17057.7	16694.0	16724.4	17057.7	16192.5	8722.1
47.5°	15453.3	15531.4	16277.2	17688.3	18910.6	19188.5	18500.3	18460.1	18241.9	17116.3	8998.8
50°	13941.2	14012.8	14978.9	17066.3	19353.6	21222.8	20664.8	20546.5	19280.8	17668.8	9096.6
52.5°	11752.8	11839.6	12624.4	15108.1	18518.8	22130.2	22714.3	22615.5	20042.8	17712.3	9112.9
55°	8299.8	8405.1	9235.5	11579.1	15873.4	21408.4	23440.4	23411.2	20675.7	17597.2	9147.6
57.5°	4664.4	4740.4	5636.0	7422.7	11625.8	18646.9	22681.7	22876.0	21057.7	17397.4	9199.7
60°	2071.1	2091.8	2555.3	3695.1	6806.2	14250.5	20509.6	20837.4	20729.9	17130.4	9287.6
62.5°	1148.5	1131.1	1131.1	1536.0	2958.0	8821.9	16724.4	17266.0	19330.7	16814.5	9291.9
65°	899.9	883.6	836.9	843.4	1126.8	3915.4	11581.3	12544.1	16673.4	15888.6	8979.3
67.5°	763.1	749.0	702.3	683.8	700.2	1291.8	6363.2	7363.0	12651.6	13482.0	7777.7
70°	644.8	635.0	611.1	588.4	547.1	638.3	2434.8	3114.3	7796.1	8968.5	5309.3
72.5°	518.9	514.5	523.3	503.7	453.8	425.5	832.6	1008.4	3501.9	4002.3	2187.3
75°	447.2	445.1	449.4	429.8	373.5	296.3	423.4	462.4	987.8	979.1	442.9
77.5°	290.9	294.2	372.3	363.7	321.3	197.6	219.3	236.6	299.6	224.7	134.6
80°	185.7	183.4	188.9	301.7	288.8	150.9	109.6	115.0	144.4	110.8	65.1
82.5°	112.9	110.8	123.7	141.1	145.4	105.3	67.3	68.4	90.1	71.6	34.7
85°	9.8	13.0	74.9	69.5	49.9	32.6	32.6	34.7	47.8	42.3	19.6
87.5°	0.0	0.0	13.0	19.6	10.9	11.9	11.9	13.0	18.4	18.4	9.8
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°	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4	5629.4
2.5°	5633.8	5520.9	5293.0	5073.7	4888.0	4709.0	4504.9	4302.9	4208.5	4170.5	4131.4
5°	5643.6	5411.3	4941.2	4468.0	3977.3	3535.5	3158.8	2772.4	2579.2	2494.5	2455.4
7.5°	5656.5	5302.7	4542.9	3748.3	2958.0	2358.8	1835.6	1499.0	1353.6	1330.8	1274.4
10°	5658.8	5171.4	4080.5	2953.7	1983.3	1422.0	1094.2	920.6	856.5	845.6	827.1
12.5°	5663.1	5016.1	3567.0	2187.3	1322.1	950.9	791.3	733.8	716.5	715.3	715.3
15°	5676.1	4853.3	3034.0	1576.2	949.8	753.3	694.7	671.9	665.4	668.7	667.5
17.5°	5676.1	4661.2	2510.8	1174.5	767.4	677.3	644.8	629.6	627.4	630.7	631.8
20°	5634.8	4427.8	2031.0	914.0	680.6	628.5	599.2	585.1	579.7	581.8	583.0
22.5°	5536.1	4141.2	1640.2	756.6	623.1	584.0	552.5	530.8	522.1	523.3	523.3
25°	5381.9	3801.5	1283.1	654.6	576.4	536.2	499.3	474.3	468.9	467.8	470.1
27.5°	5184.3	3425.9	1021.4	576.4	521.0	483.0	446.1	425.5	421.2	422.3	423.4
30°	4990.1	3036.2	805.4	510.2	459.2	423.4	395.2	385.4	385.4	388.6	389.7
32.5°	4812.1	2661.7	637.2	452.6	403.8	371.2	354.9	353.9	359.3	361.4	362.6
35°	4659.0	2315.4	527.5	408.1	360.4	332.2	326.7	331.1	337.6	342.0	343.0
37.5°	4550.4	2006.0	461.3	371.2	326.7	304.0	302.8	311.5	320.3	330.0	332.2
40°	4504.9	1744.4	415.7	338.7	299.6	282.3	279.0	290.9	307.2	321.3	323.5
42.5°	4466.9	1530.5	376.6	307.2	277.9	252.9	251.8	267.1	286.5	300.7	304.0
45°	4434.3	1359.0	340.9	273.5	249.7	217.1	220.4	239.9	255.1	270.3	273.5
47.5°	4367.0	1217.9	301.7	237.7	206.2	185.7	192.2	209.5	221.4	244.3	247.5
50°	4246.6	1102.9	261.6	194.3	168.2	160.7	170.4	182.4	197.6	217.1	219.3
52.5°	4165.1	1016.0	226.8	162.8	139.0	141.1	150.9	155.2	164.0	171.5	169.4
55°	4118.4	968.3	198.6	141.1	118.3	124.8	127.0	121.6	117.2	109.6	106.4
57.5°	4113.0	924.8	176.9	122.7	104.2	107.5	99.9	81.4	66.2	57.6	55.3
60°	4104.3	871.6	159.6	103.1	92.2	87.9	71.6	44.5	31.5	29.3	29.3
62.5°	4009.8	789.2	146.5	86.8	78.2	66.2	41.3	20.6	17.3	18.4	18.4
65°	3709.1	674.1	133.5	70.5	61.9	47.8	20.6	11.9	6.5	7.6	7.6
67.5°	3153.4	537.3	119.4	54.3	46.7	30.4	11.9	5.4	0.0	0.0	0.0
70°	2111.4	333.2	101.0	38.0	30.4	18.4	8.7	1.1	0.0	0.0	0.0
72.5°	809.8	180.2	81.4	22.8	19.6	13.0	5.4	0.0	0.0	0.0	0.0
75°	182.4	118.3	56.5	16.3	14.1	8.7	2.1	0.0	0.0	0.0	0.0
77.5°	69.5	85.8	32.6	10.9	9.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	33.6	51.0	15.2	6.5	5.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	17.3	19.6	6.5	3.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	9.8	3.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	3.3	1.1	1.1	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)