

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: P323631

Luminaire Tested: **GLEON-SA7A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20702 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

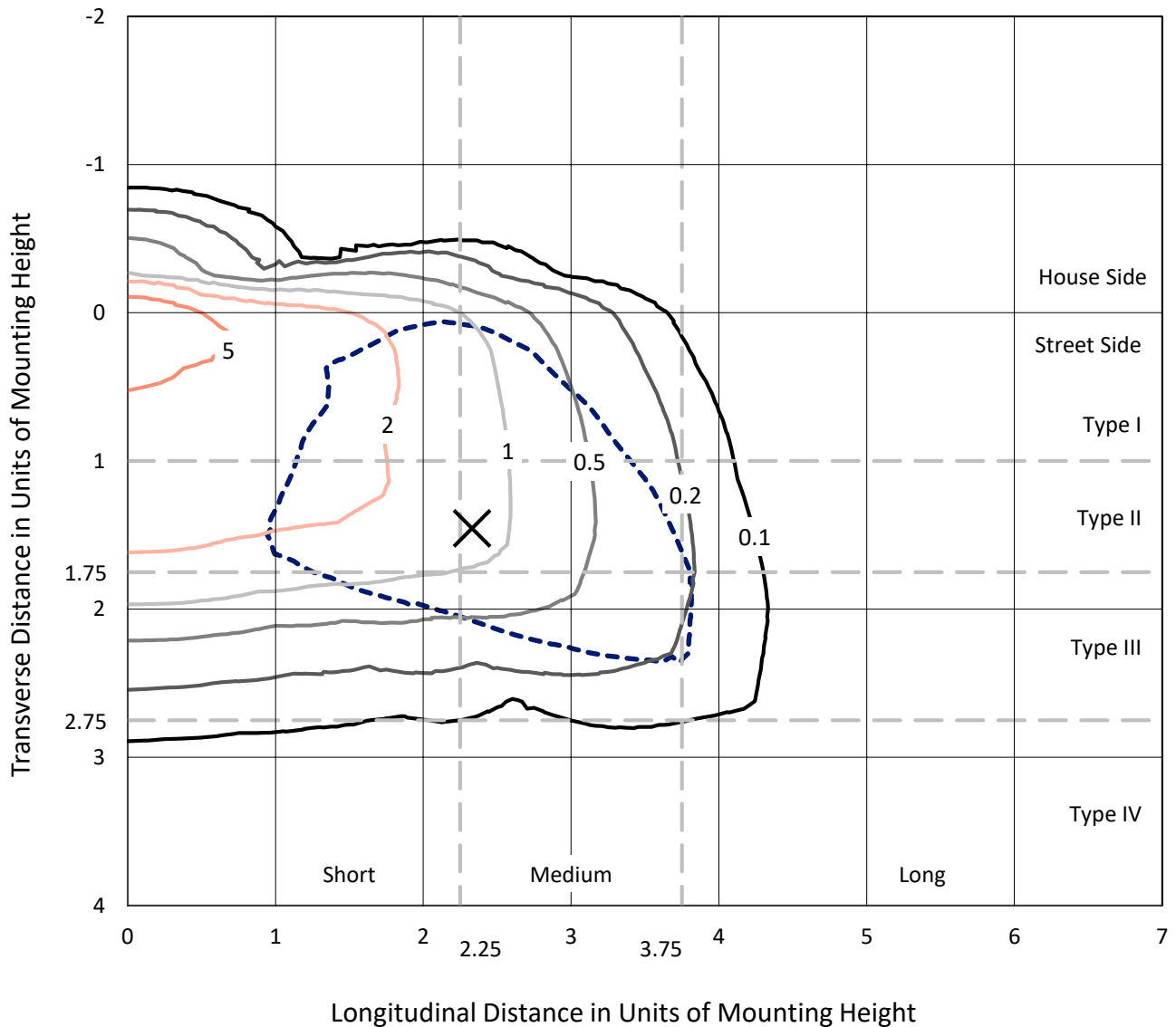
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

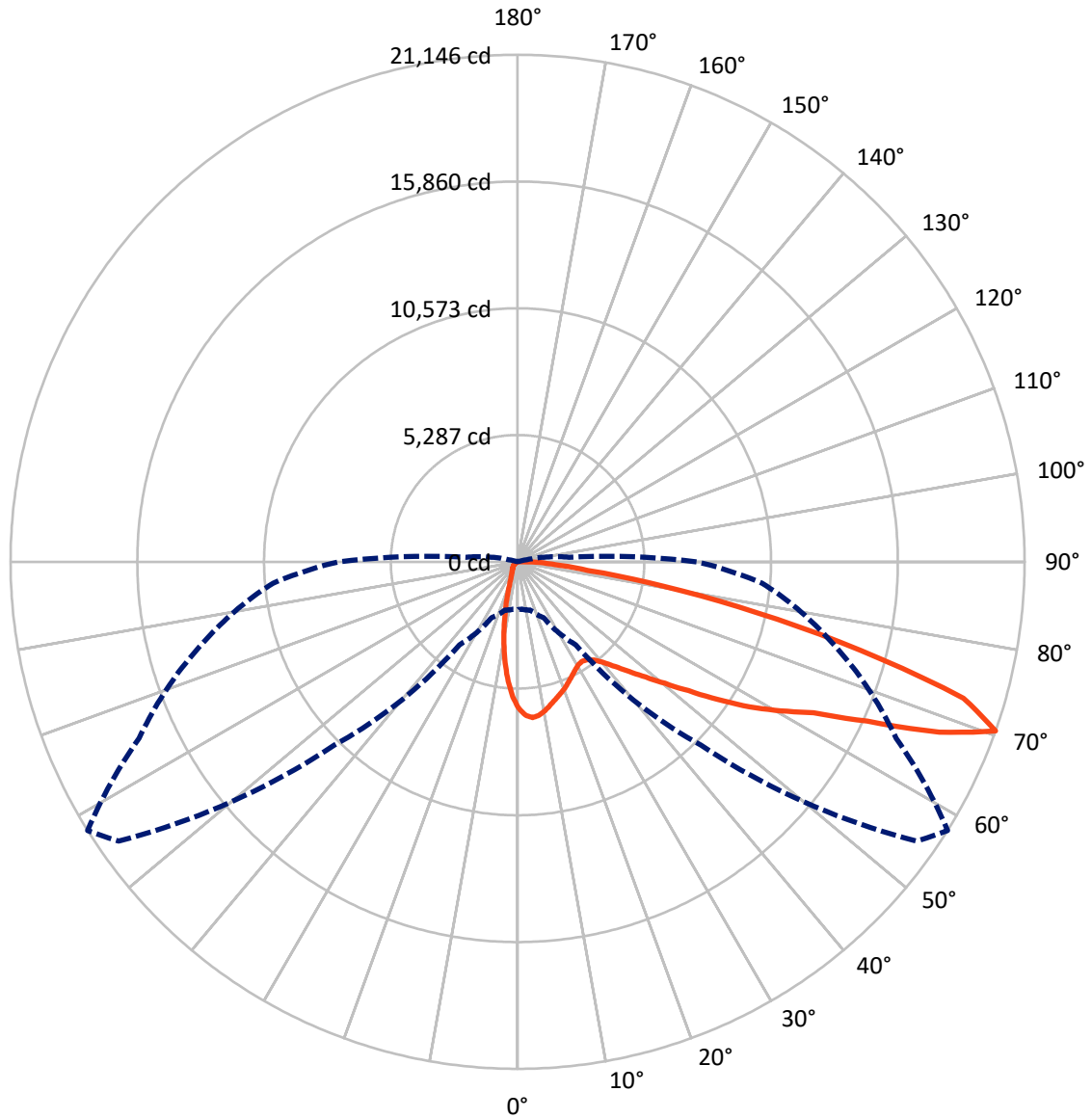
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.6	0.0	1771.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	18930.4	0.0	18930.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	20702.0	0.0	20702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.1	2.4
10°-20°	1049.5	5.1
20°-30°	1379.8	6.7
30°-40°	1827.4	8.8
40°-50°	2731.3	13.2
50°-60°	4375.5	21.1
60°-70°	5515.3	26.6
70°-80°	2974.9	14.4
80°-90°	348.2	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°	20702.0	100.0
0°-180°	20702.0	100.0

Coefficient of Utilization

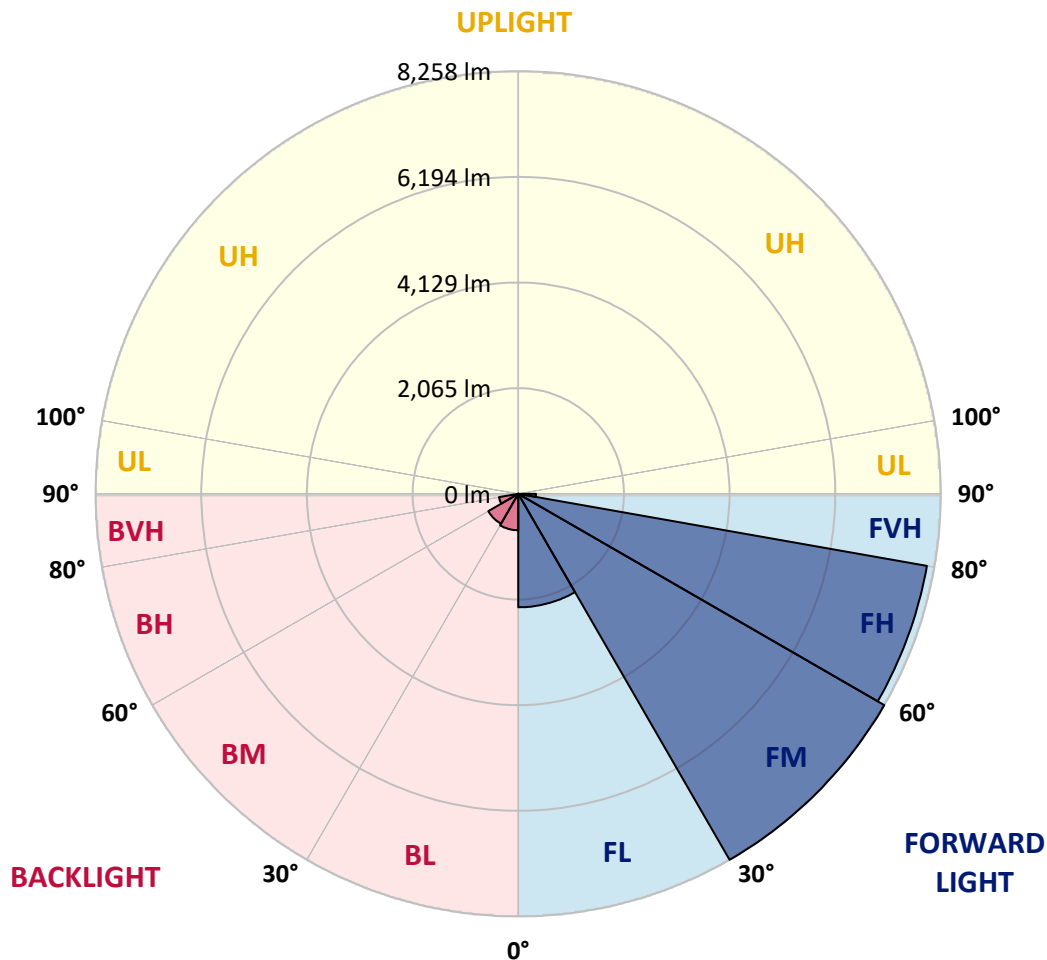


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.6	10.7			
FM (30°-60°)	8258.3	39.9			
FH (60°-80°)	8109.2	39.2			G4/12000
FVH (80°-90°)	345.2	1.7			G3/500
BL (0°-30°)	711.8	3.4	B2/1000		
BM (30°-60°)	675.9	3.3	B1/1000		
BH (60°-80°)	381.0	1.8	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3
2.5°	6622.3	6605.9	6599.9	6589.6	6550.0	6511.3	6434.6	6413.1	6364.9	6250.4	6129.0
5°	6627.5	6626.6	6644.7	6640.4	6626.6	6608.5	6553.4	6525.0	6443.2	6279.7	6057.6
7.5°	6308.1	6324.5	6364.9	6397.6	6435.5	6484.6	6491.5	6463.9	6396.8	6220.3	5925.9
10°	5879.4	5905.2	5962.0	6026.6	6125.6	6223.7	6311.5	6308.1	6284.9	6111.0	5767.5
12.5°	5449.9	5480.0	5545.4	5641.0	5781.3	5941.4	6098.1	6119.6	6158.3	6012.8	5621.2
15°	5073.7	5099.5	5164.1	5281.1	5455.0	5670.2	5900.1	5939.7	6039.5	5936.2	5498.9
17.5°	4754.3	4770.7	4818.0	4948.0	5149.4	5410.3	5709.0	5786.4	5935.4	5876.0	5393.0
20°	4531.4	4533.9	4564.9	4656.2	4857.6	5149.4	5511.0	5622.0	5825.2	5824.3	5283.7
22.5°	4421.2	4412.6	4418.6	4471.1	4619.2	4900.7	5313.0	5444.7	5726.2	5780.4	5172.7
25°	4400.5	4393.6	4376.4	4383.3	4472.8	4682.9	5113.3	5265.6	5639.2	5753.7	5076.3
27.5°	4465.1	4472.0	4442.7	4411.7	4418.6	4541.7	4935.9	5112.4	5568.7	5753.7	5008.3
30°	4595.1	4598.5	4577.0	4536.5	4482.3	4502.1	4812.9	4989.3	5533.4	5793.3	4965.2
32.5°	4738.8	4757.8	4755.2	4722.5	4645.0	4564.9	4783.6	4944.6	5530.8	5881.1	4960.9
35°	4917.0	4938.5	4974.7	4967.8	4886.9	4755.2	4883.4	5010.0	5581.6	6025.7	5007.4
37.5°	5106.4	5139.1	5216.6	5253.6	5201.1	5052.2	5107.3	5197.6	5717.6	6259.9	5125.3
40°	5289.7	5326.8	5467.9	5613.4	5573.8	5420.6	5446.4	5518.7	5959.5	6596.5	5349.1
42.5°	5469.7	5524.7	5732.2	5971.5	6018.9	5896.6	5910.4	5968.1	6318.4	7059.6	5715.0
45°	5684.9	5746.8	6054.2	6349.4	6476.0	6422.6	6481.1	6519.0	6787.6	7671.6	6208.2
47.5°	6000.8	6072.2	6449.3	6785.9	7007.9	7042.4	7160.3	7185.3	7380.7	8384.4	6851.3
50°	6617.1	6636.9	6977.8	7283.4	7603.6	7810.2	7944.5	7963.5	8098.6	9163.4	7654.4
52.5°	7392.7	7405.6	7598.5	7803.3	8167.5	8589.3	8903.5	8930.2	8958.6	9922.7	8447.2
55°	8163.2	8161.4	8288.8	8409.4	8826.0	9438.9	10120.7	10137.0	9933.0	10643.2	9053.3
57.5°	8644.4	8690.8	8884.5	9039.5	9621.4	10407.3	11353.4	11413.6	10956.5	11176.9	9652.4
60°	8491.1	8513.5	8943.1	9516.4	10612.2	11783.8	12600.7	12616.2	11726.1	11709.7	10409.9
62.5°	7234.3	7246.4	7921.3	9103.2	11114.1	13569.1	14105.4	13853.2	12611.0	12449.2	11316.4
65°	4958.3	5036.7	5600.5	7061.3	10192.1	14689.1	16434.8	16017.3	13959.9	13514.9	12135.9
67.5°	2919.9	2903.5	3182.5	4258.5	7485.7	13945.3	19381.4	18966.5	15799.5	14228.5	11895.7
70°	1994.5	1983.3	2090.1	2578.2	4225.8	10817.9	20308.5	21146.1	17423.9	13748.2	10237.7
72.5°	1423.8	1429.8	1587.4	2003.1	2653.1	6302.9	17464.3	19446.8	16915.1	11985.2	7781.8
75°	966.7	983.1	1208.6	1643.3	2325.9	3206.6	12393.2	14782.9	13774.0	8710.6	4472.8
77.5°	519.9	538.0	804.0	1323.9	2103.0	2227.8	7972.1	10174.0	8652.1	3915.9	1296.4
80°	216.9	227.3	376.2	962.4	1817.2	1956.6	4690.6	6169.5	3686.9	772.2	289.2
82.5°	93.8	99.0	156.7	574.2	1358.4	1651.9	2483.5	2968.1	1117.3	169.6	145.5
85°	18.1	18.9	64.6	303.9	866.8	932.3	1609.7	1577.9	501.9	73.2	105.9
87.5°	0.0	0.0	15.5	95.6	254.8	507.9	982.2	970.1	170.4	35.3	39.6
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°	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3	6115.3
2.5°	6067.1	6007.7	5882.9	5728.8	5610.8	5480.8	5377.5	5246.7	5189.9	5192.5	5161.5
5°	5931.1	5808.8	5532.5	5183.9	4915.3	4638.1	4399.7	4162.1	4021.8	3976.1	3933.1
7.5°	5736.5	5542.8	5102.1	4564.9	4110.4	3666.2	3279.7	2939.7	2724.5	2619.5	2580.7
10°	5517.0	5245.0	4607.1	3899.5	3250.5	2649.6	2148.6	1713.0	1539.1	1421.2	1391.1
12.5°	5324.2	4955.7	4123.3	3216.9	2446.5	1721.6	1243.9	972.7	854.8	808.3	800.6
15°	5142.5	4685.4	3657.6	2598.8	1694.1	1059.7	791.1	699.0	671.4	663.7	663.7
17.5°	4971.2	4428.1	3202.3	1990.2	1120.8	742.9	655.1	634.4	625.8	625.0	625.8
20°	4792.2	4170.7	2754.6	1458.2	782.5	629.3	605.2	594.0	591.4	591.4	591.4
22.5°	4620.9	3913.3	2319.1	1041.6	627.5	574.2	562.1	554.4	551.8	550.9	549.2
25°	4456.5	3668.8	1893.8	736.0	550.9	526.0	515.6	505.3	497.6	493.3	490.7
27.5°	4321.3	3451.0	1497.8	590.5	497.6	476.0	463.1	447.6	428.7	420.1	416.6
30°	4213.7	3252.2	1154.4	498.4	447.6	426.1	406.3	379.6	352.1	337.4	336.6
32.5°	4129.4	3056.8	876.3	440.7	402.9	376.2	347.8	314.2	282.3	266.0	265.1
35°	4088.0	2884.6	669.7	398.6	363.3	329.7	294.4	257.4	226.4	210.9	209.2
37.5°	4115.6	2739.1	522.5	363.3	329.7	291.0	249.6	210.9	183.4	169.6	168.7
40°	4216.3	2646.2	424.4	333.1	301.3	253.9	209.2	173.0	149.8	138.6	137.7
42.5°	4430.6	2611.7	362.4	308.2	273.7	219.5	173.9	142.9	121.4	113.6	111.9
45°	4788.7	2662.5	320.2	284.1	245.3	186.8	143.8	117.1	98.1	92.1	91.2
47.5°	5265.6	2795.9	290.1	260.8	219.5	157.5	119.7	94.7	80.1	74.0	73.2
50°	5880.3	3007.7	265.1	237.6	195.4	133.4	99.0	74.9	62.0	57.7	57.7
52.5°	6549.1	3259.9	242.8	216.1	171.3	111.0	80.1	57.7	49.1	43.9	43.9
55°	7101.8	3480.3	218.6	199.7	142.0	92.1	61.1	43.9	36.2	33.6	33.6
57.5°	7653.6	3715.3	191.1	171.3	113.6	74.9	46.5	32.7	26.7	25.0	25.0
60°	8368.9	4002.8	164.4	139.5	89.5	56.8	34.4	23.2	19.8	18.9	18.9
62.5°	9155.7	4171.5	140.3	111.9	69.7	42.2	25.0	15.5	14.6	14.6	13.8
65°	9636.9	3933.1	117.9	89.5	54.2	31.9	16.4	11.2	12.9	12.1	10.3
67.5°	9023.1	3079.2	96.4	69.7	42.2	24.1	10.3	7.7	13.8	11.2	8.6
70°	7471.1	2155.5	74.9	49.1	33.6	20.7	6.9	5.2	14.6	11.2	6.9
72.5°	5591.0	1442.7	59.4	32.7	25.0	18.1	6.0	2.6	12.9	9.5	6.0
75°	3055.1	581.1	47.3	20.7	15.5	12.9	4.3	1.7	8.6	6.9	4.3
77.5°	804.0	153.2	34.4	13.8	8.6	5.2	2.6	0.9	4.3	3.4	1.7
80°	204.9	59.4	22.4	9.5	6.0	2.6	0.0	0.0	0.9	0.0	0.0
82.5°	109.3	25.0	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.6	16.4	7.7	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.9	5.2	2.6	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)