

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: P383392

Luminaire Tested: **GLEON-SA7A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24921.7 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

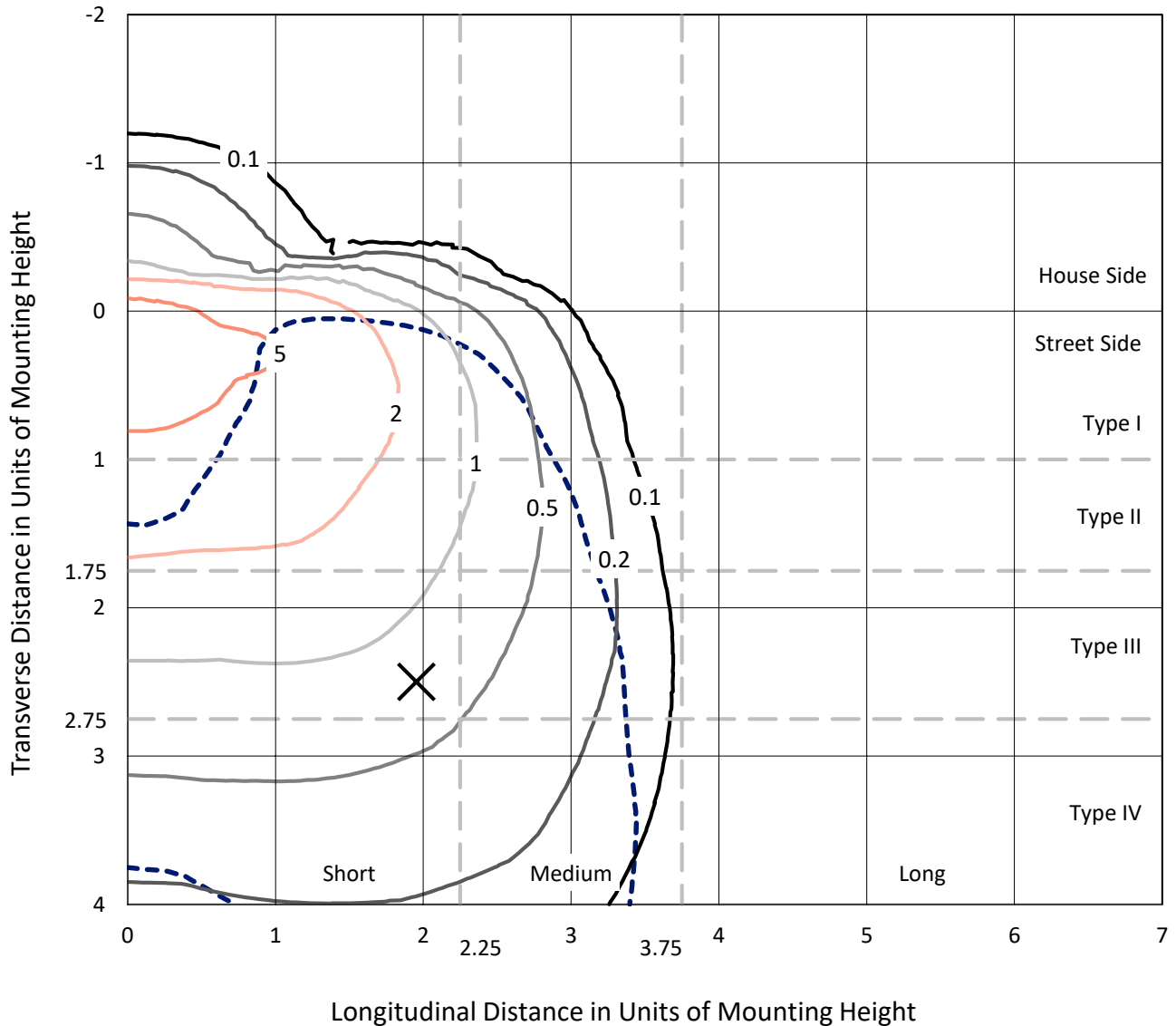
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

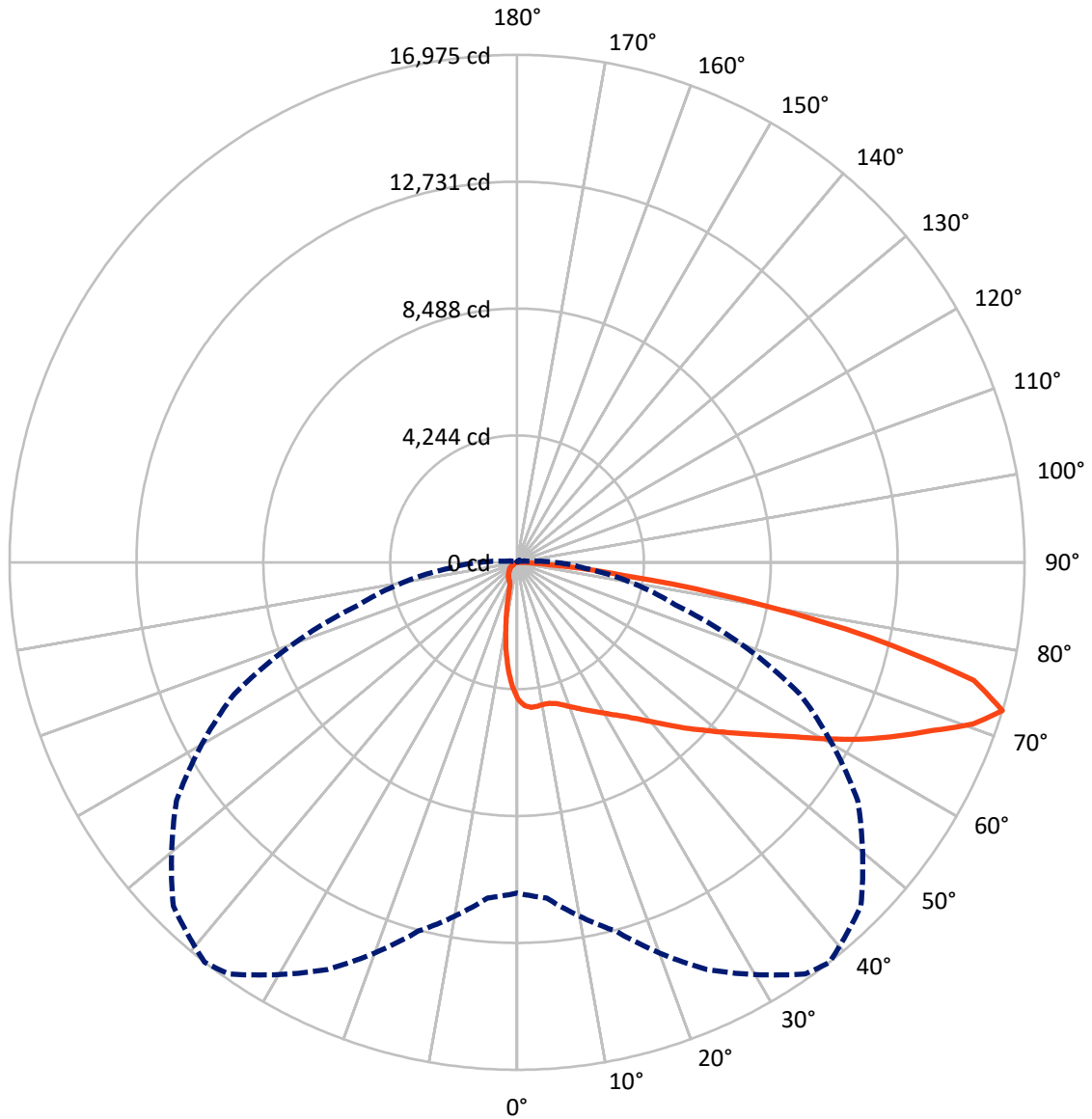
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2097.2	0.0	2097.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22824.4	0.0	22824.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	24921.7	0.0	24921.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.6	1.6
10°-20°	955.0	3.8
20°-30°	1518.9	6.1
30°-40°	2283.5	9.2
40°-50°	3483.7	14.0
50°-60°	4923.6	19.8
60°-70°	6175.9	24.8
70°-80°	4617.8	18.5
80°-90°	572.6	2.3
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°	24921.7	100.0
0°-180°	24921.7	100.0

Coefficient of Utilization

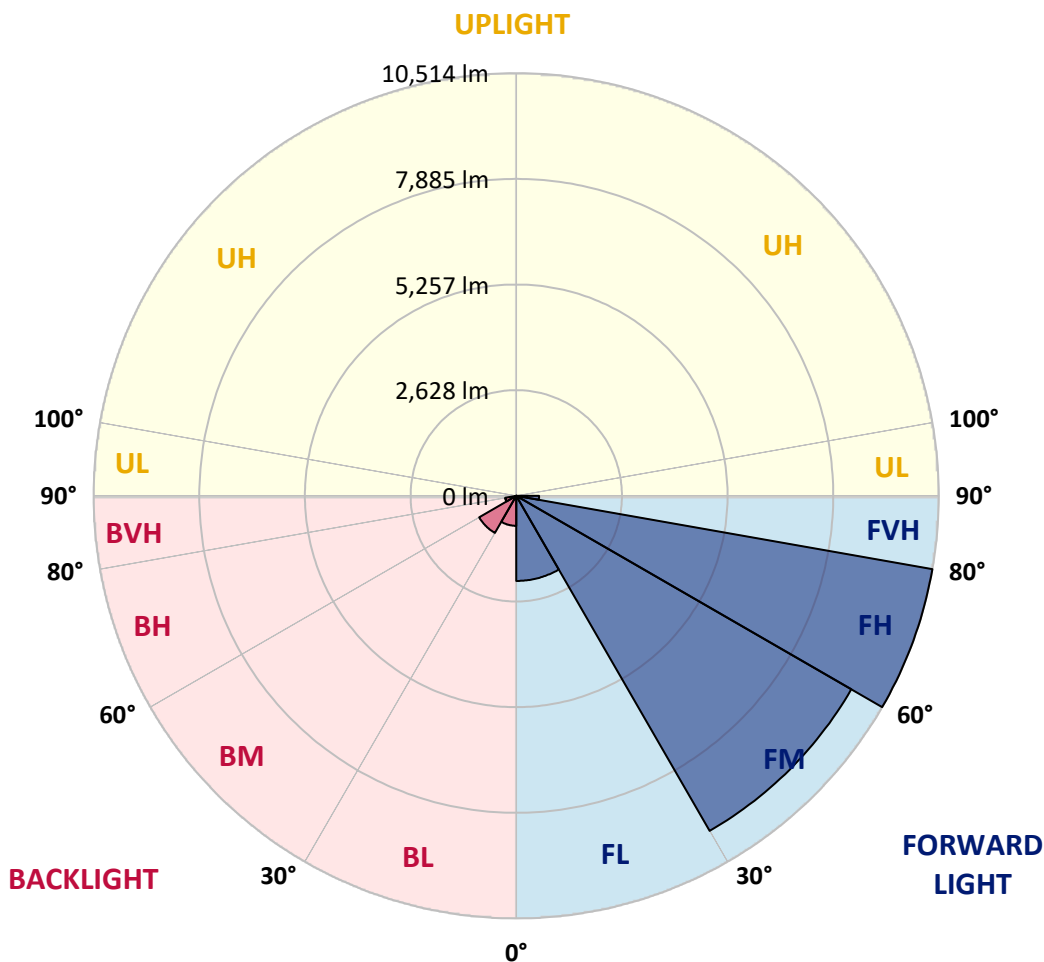


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.7	8.5			
FM (30°-60°)	9625.9	38.6			
FH (60°-80°)	10513.6	42.2			G4/12000
FVH (80°-90°)	567.3	2.3			G4/750
BL (0°-30°)	746.7	3.0	B2/1000		
BM (30°-60°)	1065.0	4.3	B2/2500		
BH (60°-80°)	280.1	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0
2.5°	4864.5	4865.6	4854.2	4835.6	4811.7	4799.3	4778.7	4745.5	4710.3	4647.2	4578.8
5°	4963.9	4963.9	4949.4	4924.5	4886.2	4874.9	4835.6	4782.8	4710.3	4607.9	4492.9
7.5°	4953.5	4955.6	4936.0	4910.1	4871.8	4861.5	4813.9	4754.8	4664.8	4540.5	4393.6
10°	4899.8	4904.9	4889.4	4876.9	4841.8	4830.4	4785.9	4726.9	4636.9	4504.3	4335.6
12.5°	4844.9	4850.0	4855.2	4866.6	4844.9	4840.7	4805.6	4755.8	4669.9	4532.3	4341.9
15°	4809.7	4820.0	4857.3	4901.8	4907.0	4902.8	4880.1	4833.5	4746.5	4603.7	4386.4
17.5°	4809.7	4826.3	4903.9	4988.7	5018.7	5021.9	5002.2	4937.0	4833.5	4680.3	4427.7
20°	4850.0	4872.8	4993.9	5114.0	5163.7	5163.7	5125.4	5034.3	4913.2	4749.7	4455.7
22.5°	4953.5	4983.6	5135.7	5274.4	5327.1	5315.8	5264.1	5131.6	4996.0	4828.3	4490.9
25°	5157.4	5180.2	5338.6	5478.3	5510.4	5484.5	5419.3	5249.6	5101.5	4935.0	4555.1
27.5°	5420.3	5423.5	5587.0	5705.0	5685.3	5667.7	5585.9	5397.6	5253.7	5087.1	4665.8
30°	5709.1	5709.1	5853.0	5943.0	5883.0	5868.5	5786.8	5576.6	5448.2	5294.1	4823.2
32.5°	5988.5	6000.9	6117.9	6174.9	6107.6	6093.1	6013.4	5803.3	5707.0	5609.8	5068.5
35°	6258.7	6268.0	6378.8	6409.8	6345.6	6349.8	6292.9	6114.9	6078.6	6066.1	5437.9
37.5°	6520.6	6522.6	6635.4	6655.1	6623.0	6658.2	6663.4	6506.0	6573.4	6673.7	5958.6
40°	6759.7	6761.7	6873.5	6924.2	6979.1	7024.6	7065.0	6981.1	7203.7	7436.5	6578.5
42.5°	6951.1	6972.8	7114.6	7210.9	7355.8	7442.8	7552.4	7548.3	7954.0	8303.9	7327.8
45°	7119.8	7157.1	7354.8	7523.5	7771.9	7910.6	8082.4	8216.9	8798.6	9269.6	8086.5
47.5°	7342.4	7377.6	7603.2	7879.5	8210.8	8392.9	8677.6	8968.4	9727.0	10217.6	8827.6
50°	7655.9	7640.5	7862.9	8259.4	8684.7	8923.9	9329.5	9765.3	10648.1	11043.5	9263.3
52.5°	7990.3	7984.0	8148.6	8672.3	9243.7	9523.1	10059.2	10589.2	11528.9	11612.8	9463.1
55°	8404.2	8359.8	8498.4	9143.2	9907.1	10207.2	10838.6	11404.8	12230.7	11933.7	9563.5
57.5°	8838.0	8764.5	8896.9	9668.0	10655.4	11010.4	11701.8	12199.6	12697.5	12153.1	9562.4
60°	9286.1	9199.1	9356.5	10324.2	11584.8	11995.7	12637.5	12736.8	13133.2	12263.8	9492.1
62.5°	9660.8	9609.0	9842.9	11026.0	12622.9	13026.6	13344.3	13225.4	13500.6	12349.7	9327.5
65°	10057.2	10060.2	10438.1	11844.6	13726.3	13998.5	14025.4	13858.7	13808.1	12332.1	8770.7
67.5°	10593.3	10643.0	11273.3	12956.2	14799.6	15009.7	15007.6	14545.0	14032.6	11632.4	7535.9
70°	11160.5	11277.4	12235.9	14228.3	15971.2	16184.4	16074.7	14981.7	13212.9	9406.1	5333.4
72.5°	11065.3	11268.1	12771.0	15030.4	16812.7	16975.2	16262.0	13908.5	10443.2	5466.9	2270.8
75°	8536.8	8771.7	11710.1	14235.5	15929.8	15783.9	13972.7	10823.1	5707.0	1525.6	511.3
77.5°	4509.5	4634.7	7735.7	10844.8	12421.2	12115.8	9842.9	6004.1	1739.9	377.7	229.8
80°	2361.8	2390.9	3371.0	6153.2	7666.3	7668.4	5833.4	2637.2	717.3	193.6	154.2
82.5°	1264.8	1289.6	1781.2	2843.2	4016.8	3641.1	2233.6	1451.1	417.1	109.7	148.0
85°	304.3	309.5	1010.2	1298.9	1579.4	1128.2	663.4	1218.2	112.8	64.2	120.1
87.5°	117.0	119.1	374.7	562.0	402.6	260.8	310.5	454.4	14.5	24.9	18.6
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°	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0	4583.0
2.5°	4537.5	4510.6	4444.3	4360.5	4286.0	4232.1	4151.4	4098.6	4063.4	4062.4	4049.0
5°	4422.6	4367.7	4224.9	4055.1	3900.9	3762.2	3598.8	3469.4	3373.1	3357.6	3324.4
7.5°	4299.5	4209.4	3989.9	3725.0	3466.3	3203.3	2898.0	2708.7	2546.1	2468.5	2460.2
10°	4223.8	4097.6	3786.1	3403.1	2997.3	2570.0	2170.4	1894.0	1694.3	1637.4	1594.9
12.5°	4208.4	4041.7	3628.8	3100.8	2521.3	1956.2	1514.2	1220.2	1060.8	1010.2	996.8
15°	4223.8	4015.8	3496.3	2801.7	2039.0	1387.9	1016.4	845.6	785.6	771.0	770.0
17.5°	4233.1	3984.8	3346.2	2469.5	1571.1	991.5	778.3	728.7	719.3	718.3	720.4
20°	4232.1	3937.2	3167.2	2099.0	1168.5	779.3	703.8	693.4	691.4	692.4	691.4
22.5°	4224.9	3881.3	2970.5	1717.1	882.8	696.5	671.7	665.5	664.5	664.5	664.5
25°	4238.4	3836.8	2754.1	1351.7	727.6	658.2	642.8	637.6	636.5	636.5	634.5
27.5°	4287.0	3811.9	2517.1	1040.2	657.2	624.1	611.7	610.6	607.6	606.5	608.6
30°	4365.7	3811.9	2257.3	809.4	614.8	588.9	579.6	577.6	576.5	575.5	576.5
32.5°	4504.3	3841.0	1973.8	672.8	574.4	549.6	543.4	546.4	543.4	543.4	543.4
35°	4754.8	3927.9	1676.7	586.9	532.0	511.3	505.1	509.2	507.1	507.1	506.1
37.5°	5120.2	4089.3	1377.6	535.1	494.7	473.0	464.7	470.9	468.8	468.8	467.8
40°	5565.3	4324.2	1093.0	495.8	458.5	435.8	428.5	431.6	426.5	426.5	428.5
42.5°	6114.9	4622.3	844.5	457.5	422.3	400.6	396.4	393.3	384.0	378.8	379.9
45°	6725.5	4932.8	658.2	420.2	388.1	370.6	364.3	356.0	340.5	330.1	331.2
47.5°	7270.9	5172.0	535.1	384.0	357.1	343.6	334.3	318.8	296.0	283.6	284.6
50°	7557.6	5208.2	455.4	347.7	328.1	314.7	301.2	277.4	250.5	237.0	236.0
52.5°	7631.1	5038.5	396.4	314.7	299.1	283.6	266.0	233.9	203.9	189.4	187.3
55°	7658.1	4779.7	343.6	283.6	268.1	250.5	227.7	191.4	163.5	149.0	148.0
57.5°	7569.0	4393.6	302.2	255.6	237.0	215.3	187.3	153.1	126.2	114.9	114.9
60°	7371.3	3871.0	270.1	225.6	204.9	180.1	151.1	119.1	94.2	84.9	84.9
62.5°	6977.0	3194.0	240.2	194.6	174.9	149.0	122.1	90.1	66.2	61.1	62.1
65°	6232.8	2423.0	210.1	166.7	149.0	123.2	95.2	64.2	44.5	44.5	46.6
67.5°	5082.9	1682.9	179.0	141.8	128.4	100.4	72.5	44.5	31.0	35.2	39.3
70°	3364.8	943.9	153.1	117.0	109.7	79.7	53.8	30.0	24.9	33.2	40.3
72.5°	1270.0	367.4	128.4	94.2	95.2	61.1	38.3	22.7	22.7	36.2	47.6
75°	354.0	180.1	92.1	69.3	74.5	44.5	27.9	19.7	21.7	41.4	55.9
77.5°	208.0	132.5	60.0	40.3	50.7	31.0	18.6	15.6	18.6	35.2	53.8
80°	167.7	70.4	35.2	20.7	27.9	17.6	12.4	9.3	5.2	13.4	27.9
82.5°	167.7	42.5	16.6	14.5	14.5	9.3	6.2	4.1	1.0	0.0	7.3
85°	112.8	17.6	10.3	9.3	7.3	3.1	2.0	1.0	0.0	0.0	0.0
87.5°	18.6	7.3	4.1	2.0	1.0	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)