

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: STREETWORKS

Report Number: P323791

Luminaire Tested: **GAN-SA7A-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323791
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: STREETWORKS
Catalog Number: GAN-SA7A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 24363 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

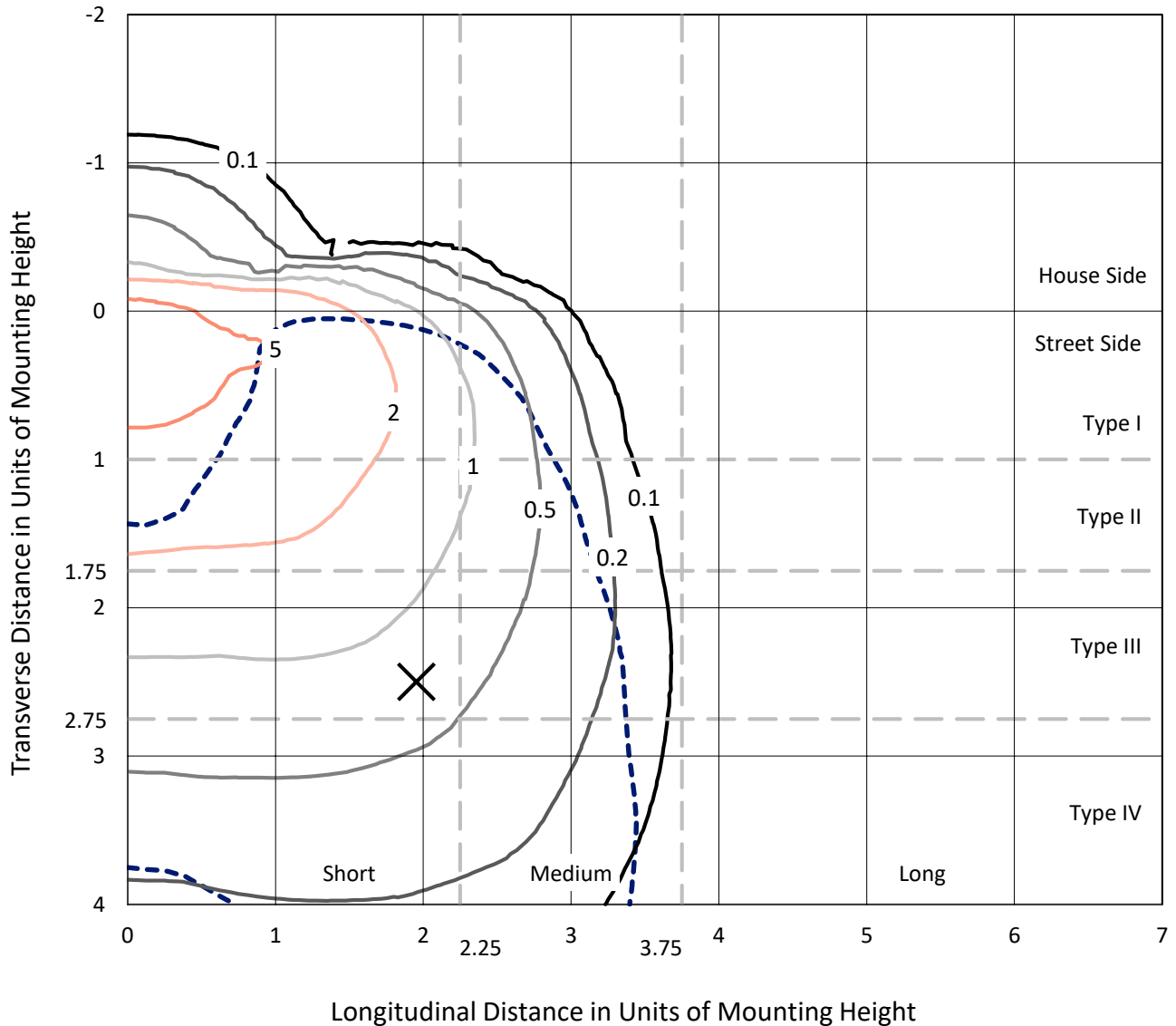
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

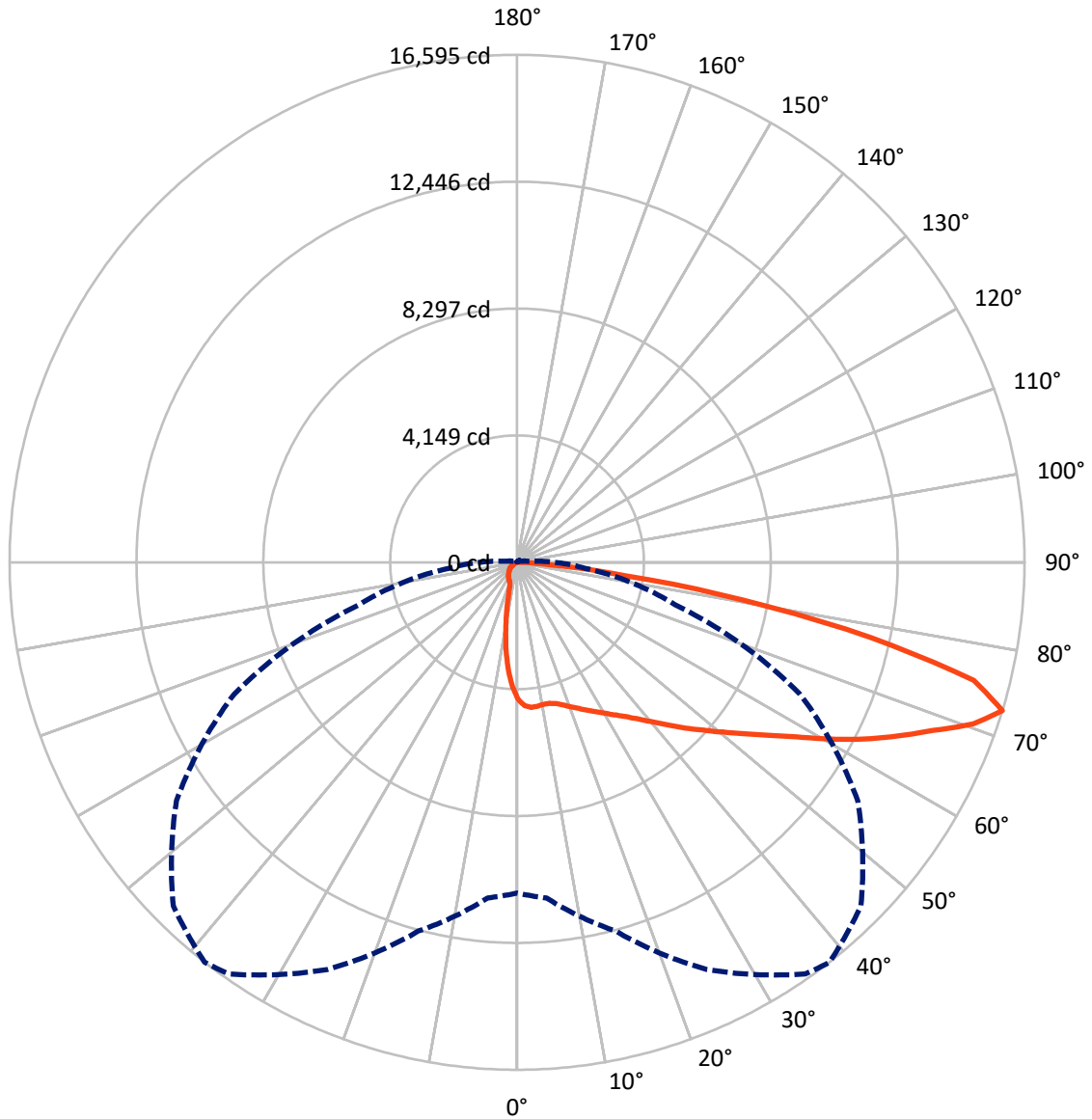
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2050.2	0.0	2050.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22312.8	0.0	22312.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	24363.0	0.0	24363.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.8	1.6
10°-20°	933.6	3.8
20°-30°	1484.9	6.1
30°-40°	2232.3	9.2
40°-50°	3405.6	14.0
50°-60°	4813.3	19.8
60°-70°	6037.4	24.8
70°-80°	4514.3	18.5
80°-90°	559.8	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°	24363.0	100.0
0°-180°	24363.0	100.0

Coefficient of Utilization



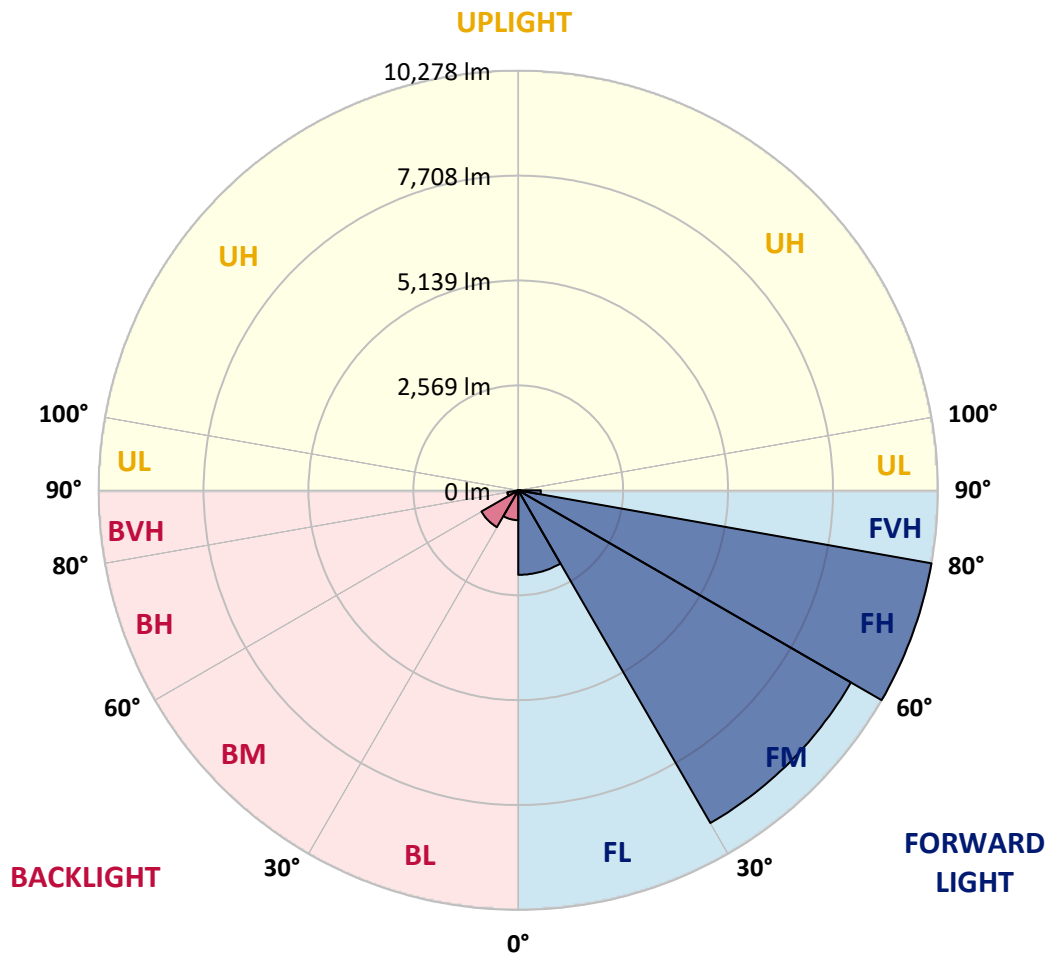
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.3	8.5			
FM (30°-60°)	9410.1	38.6			
FH (60°-80°)	10277.9	42.2			G4/12000
FVH (80°-90°)	554.5	2.3			G4/750
BL (0°-30°)	730.0	3.0	B2/1000		
BM (30°-60°)	1041.1	4.3	B2/2500		
BH (60°-80°)	273.9	1.1	B1/500		G1/500
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: 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°	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3
2.5°	4755.5	4756.5	4745.4	4727.2	4703.9	4691.7	4671.5	4639.1	4604.7	4543.0	4476.2
5°	4852.6	4852.6	4838.5	4814.2	4776.7	4765.6	4727.2	4675.6	4604.7	4504.6	4392.2
7.5°	4842.5	4844.5	4825.3	4800.0	4762.6	4752.5	4705.9	4648.2	4560.2	4438.8	4295.1
10°	4789.9	4794.9	4779.8	4767.6	4733.2	4722.1	4678.6	4620.9	4532.9	4403.4	4238.5
12.5°	4736.3	4741.3	4746.4	4757.5	4736.3	4732.2	4697.8	4649.2	4565.3	4430.7	4244.5
15°	4701.9	4712.0	4748.4	4791.9	4797.0	4792.9	4770.7	4725.1	4640.1	4500.5	4288.0
17.5°	4701.9	4718.0	4793.9	4876.9	4906.2	4909.3	4890.1	4826.3	4725.1	4575.4	4328.5
20°	4741.3	4763.6	4882.0	4999.3	5047.9	5047.9	5010.5	4921.4	4803.0	4643.2	4355.8
22.5°	4842.5	4871.8	5020.6	5156.2	5207.8	5196.6	5146.0	5016.5	4884.0	4720.1	4390.2
25°	5041.8	5064.1	5218.9	5355.5	5386.9	5361.6	5297.8	5131.9	4987.2	4824.3	4453.0
27.5°	5298.8	5301.9	5461.7	5577.1	5557.8	5540.6	5460.7	5276.6	5135.9	4973.0	4561.2
30°	5581.1	5581.1	5721.8	5809.8	5751.1	5736.9	5657.0	5451.6	5326.1	5175.4	4715.0
32.5°	5854.3	5866.4	5980.8	6036.4	5970.7	5956.5	5878.6	5673.2	5579.1	5484.0	4954.8
35°	6118.4	6127.5	6235.8	6266.1	6203.4	6207.4	6151.8	5977.7	5942.3	5930.2	5316.0
37.5°	6374.4	6376.4	6486.7	6505.9	6474.5	6508.9	6514.0	6360.2	6426.0	6524.1	5825.0
40°	6608.1	6610.1	6719.4	6769.0	6822.6	6867.1	6906.6	6824.6	7042.2	7269.8	6431.0
42.5°	6795.3	6816.5	6955.2	7049.2	7190.9	7275.9	7383.1	7379.1	7775.7	8117.7	7163.6
45°	6960.2	6996.6	7189.9	7354.8	7597.6	7733.2	7901.2	8032.7	8601.4	9061.7	7905.2
47.5°	7177.7	7212.2	7432.7	7702.9	8026.7	8204.7	8483.0	8767.3	9508.9	9988.5	8629.7
50°	7484.3	7469.1	7686.7	8074.2	8490.1	8723.8	9120.4	9546.4	10409.5	10796.0	9055.7
52.5°	7811.1	7805.1	7965.9	8477.9	9036.4	9309.6	9833.7	10351.8	11270.5	11352.5	9250.9
55°	8215.9	8172.4	8307.9	8938.3	9685.0	9978.4	10595.6	11149.1	11956.5	11666.1	9349.1
57.5°	8639.8	8568.0	8697.5	9451.3	10416.5	10763.6	11439.5	11926.2	12412.8	11880.6	9348.1
60°	9077.9	8992.9	9146.7	10092.8	11325.1	11726.8	12354.1	12451.3	12838.8	11988.9	9279.3
62.5°	9444.2	9393.6	9622.3	10778.8	12340.0	12734.6	13045.2	12928.9	13198.0	12072.9	9118.4
65°	9831.7	9834.8	10204.1	11579.1	13418.6	13684.7	13711.0	13548.1	13498.5	12055.7	8574.0
67.5°	10355.8	10404.4	11020.6	12665.8	14467.8	14673.2	14671.2	14218.9	13718.1	11371.7	7367.0
70°	10910.3	11024.6	11961.6	13909.3	15613.2	15821.6	15714.4	14645.9	12916.7	9195.3	5213.8
72.5°	10817.2	11015.5	12484.7	14693.4	16435.8	16594.6	15897.5	13596.6	10209.1	5344.4	2219.9
75°	8345.4	8575.1	11447.6	13916.4	15572.7	15430.0	13659.4	10580.5	5579.1	1491.4	499.8
77.5°	4408.4	4530.9	7562.2	10601.7	12142.7	11844.2	9622.3	5869.5	1700.8	369.3	224.6
80°	2308.9	2337.3	3295.5	6015.2	7494.4	7496.5	5702.5	2578.1	701.2	189.2	150.8
82.5°	1236.4	1260.7	1741.3	2779.4	3926.8	3559.5	2183.5	1418.6	407.8	107.3	144.7
85°	297.5	302.5	987.5	1269.8	1544.0	1102.9	648.6	1190.9	110.3	62.7	117.4
87.5°	114.3	116.4	366.3	549.4	393.6	255.0	303.5	444.2	14.2	24.3	18.2
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°	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3	4480.3
2.5°	4435.8	4409.4	4344.7	4262.7	4189.9	4137.3	4058.4	4006.8	3972.3	3971.3	3958.2
5°	4323.4	4269.8	4130.2	3964.3	3813.5	3677.9	3518.0	3391.6	3297.5	3282.3	3249.9
7.5°	4203.0	4115.0	3900.5	3641.5	3388.5	3131.5	2833.1	2647.9	2489.0	2413.2	2405.1
10°	4129.2	4005.7	3701.2	3326.8	2930.2	2512.3	2121.8	1851.6	1656.3	1600.7	1559.2
12.5°	4114.0	3951.1	3547.4	3031.4	2464.8	1912.3	1480.3	1192.9	1037.1	987.5	974.4
15°	4129.2	3925.8	3417.9	2739.0	1993.3	1356.8	993.6	826.6	768.0	753.8	752.8
17.5°	4138.3	3895.5	3271.2	2414.2	1535.9	969.3	760.9	712.3	703.2	702.2	704.2
20°	4137.3	3848.9	3096.1	2051.9	1142.3	761.9	688.0	677.9	675.9	676.9	675.9
22.5°	4130.2	3794.3	2903.9	1678.6	863.1	680.9	656.7	650.6	649.6	649.6	649.6
25°	4143.3	3750.8	2692.4	1321.4	711.3	643.5	628.3	623.3	622.3	622.3	620.2
27.5°	4190.9	3726.5	2460.7	1016.9	642.5	610.1	598.0	597.0	593.9	592.9	594.9
30°	4267.8	3726.5	2206.7	791.2	601.0	575.7	566.6	564.6	563.6	562.6	563.6
32.5°	4403.4	3754.8	1929.5	657.7	561.6	537.3	531.2	534.2	531.2	531.2	531.2
35°	4648.2	3839.8	1639.1	573.7	520.1	499.8	493.8	497.8	495.8	495.8	494.8
37.5°	5005.4	3997.6	1346.7	523.1	483.6	462.4	454.3	460.4	458.3	458.3	457.3
40°	5440.5	4227.3	1068.5	484.7	448.2	426.0	418.9	421.9	416.9	416.9	418.9
42.5°	5977.7	4518.7	825.6	447.2	412.8	391.6	387.5	384.5	375.4	370.3	371.3
45°	6574.7	4822.3	643.5	410.8	379.4	362.2	356.2	348.1	332.9	322.8	323.8
47.5°	7107.9	5056.0	523.1	375.4	349.1	335.9	326.8	311.6	289.4	277.2	278.2
50°	7388.2	5091.4	445.2	340.0	320.7	307.6	294.4	271.2	244.9	231.7	230.7
52.5°	7460.0	4925.5	387.5	307.6	292.4	277.2	260.0	228.7	199.3	185.2	183.1
55°	7486.3	4672.5	335.9	277.2	262.1	244.9	222.6	187.2	159.9	145.7	144.7
57.5°	7399.3	4295.1	295.4	249.9	231.7	210.5	183.1	149.7	123.4	112.3	112.3
60°	7206.1	3784.2	264.1	220.6	200.3	176.1	147.7	116.4	92.1	83.0	83.0
62.5°	6820.6	3122.4	234.7	190.2	171.0	145.7	119.4	88.0	64.8	59.7	60.7
65°	6093.1	2368.6	205.4	162.9	145.7	120.4	93.1	62.7	43.5	43.5	45.5
67.5°	4969.0	1645.2	175.0	138.6	125.5	98.1	70.8	43.5	30.4	34.4	38.4
70°	3289.4	922.8	149.7	114.3	107.3	77.9	52.6	29.3	24.3	32.4	39.5
72.5°	1241.5	359.2	125.5	92.1	93.1	59.7	37.4	22.3	22.3	35.4	46.5
75°	346.0	176.1	90.1	67.8	72.9	43.5	27.3	19.2	21.2	40.5	54.6
77.5°	203.4	129.5	58.7	39.5	49.6	30.4	18.2	15.2	18.2	34.4	52.6
80°	163.9	68.8	34.4	20.2	27.3	17.2	12.1	9.1	5.1	13.2	27.3
82.5°	163.9	41.5	16.2	14.2	14.2	9.1	6.1	4.0	1.0	0.0	7.1
85°	110.3	17.2	10.1	9.1	7.1	3.0	2.0	1.0	0.0	0.0	0.0
87.5°	18.2	7.1	4.0	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)