

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: P324878

Luminaire Tested: **GAN-SA4B-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324878
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: STREETWORKS
Catalog Number: GAN-SA4B-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 18871 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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

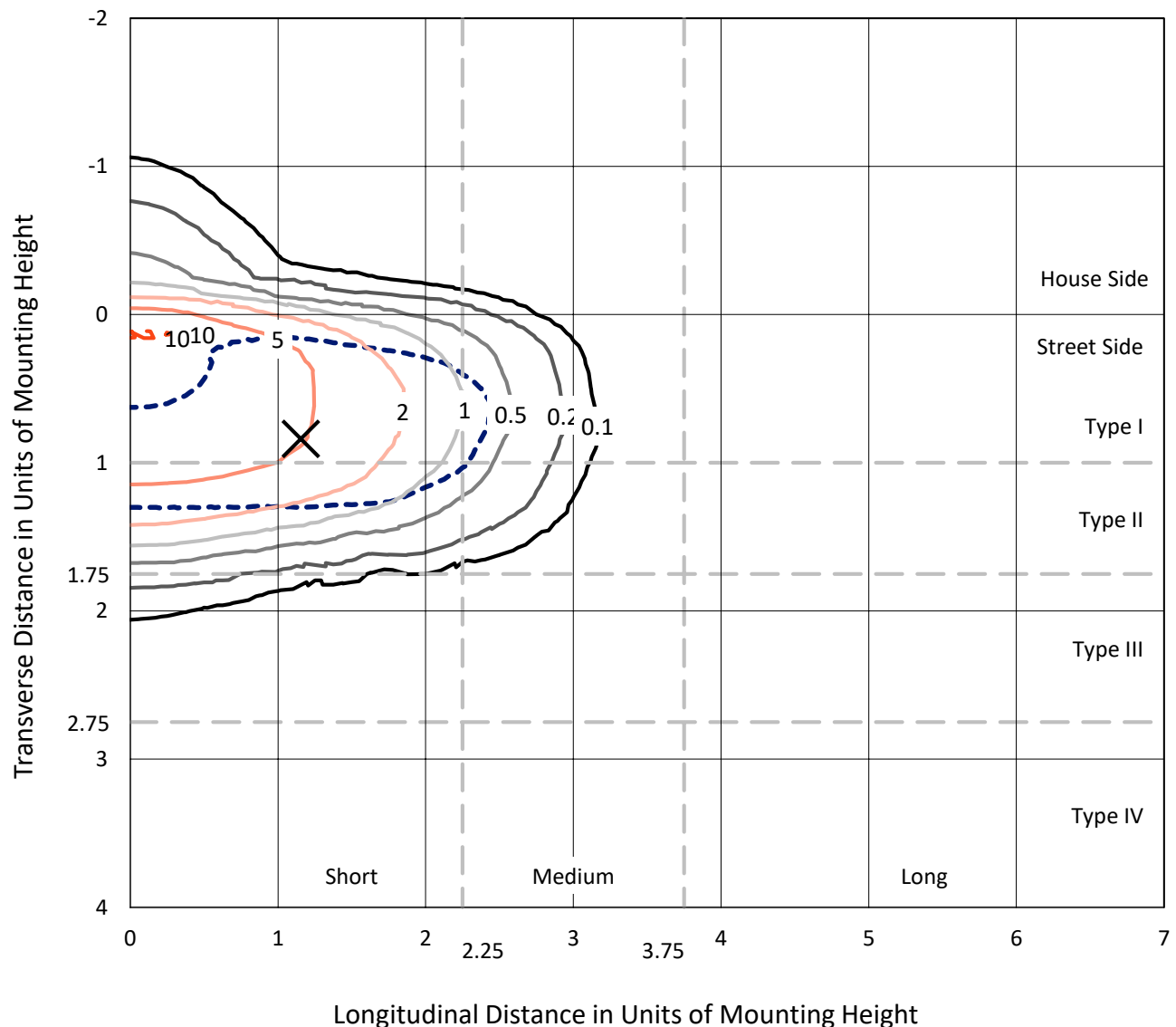


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Iso-Footcandle Lines of Horizontal Illumination

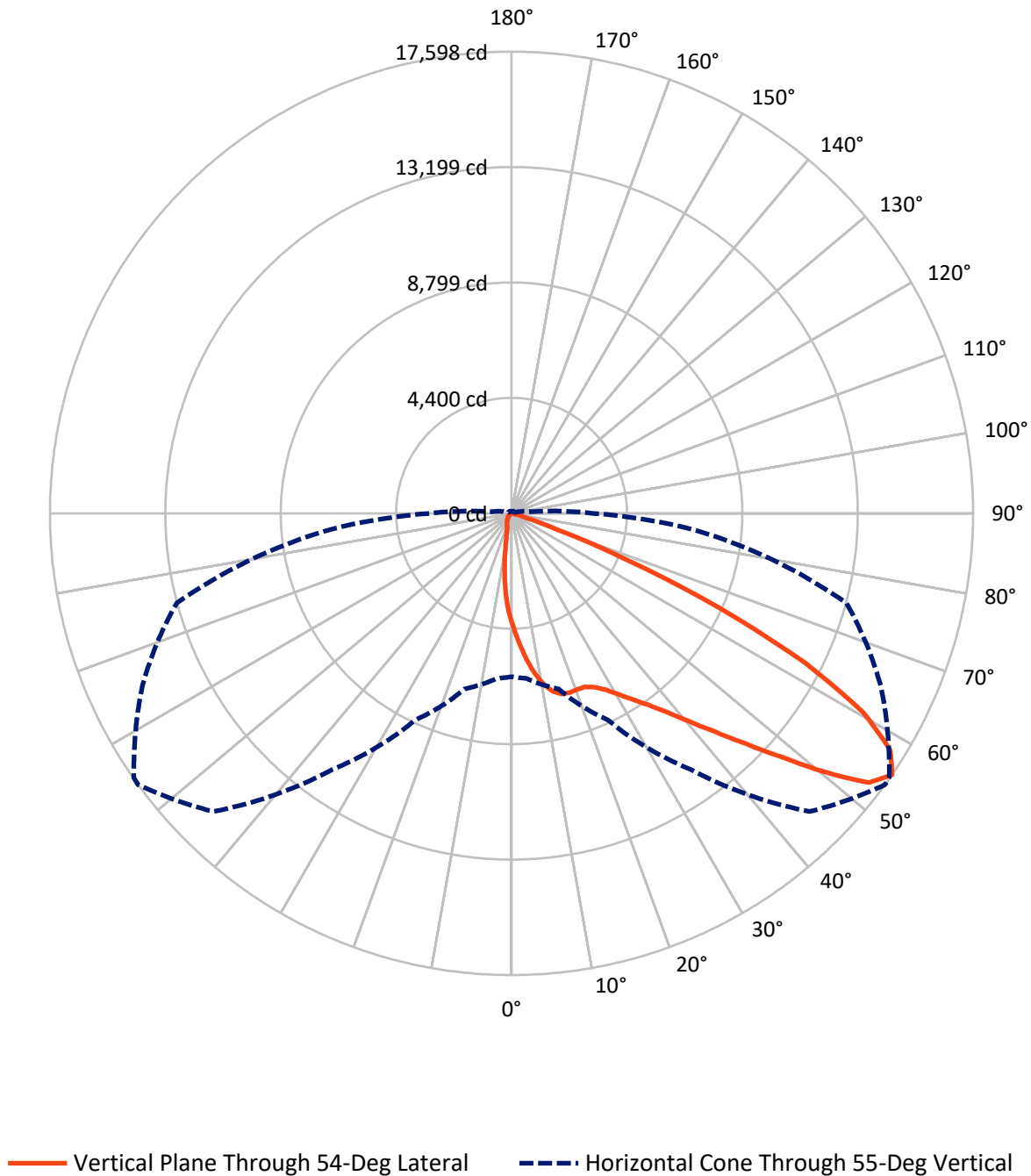
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	941.5	0.0	941.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	17929.5	0.0	17929.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	18871.0	0.0	18871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	2.1
10°-20°	1067.4	5.7
20°-30°	1822.4	9.7
30°-40°	2924.6	15.5
40°-50°	4673.6	24.8
50°-60°	5007.8	26.5
60°-70°	2571.2	13.6
70°-80°	389.5	2.1
80°-90°	25.4	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°	18871.0	100.0
0°-180°	18871.0	100.0

Coefficient of Utilization



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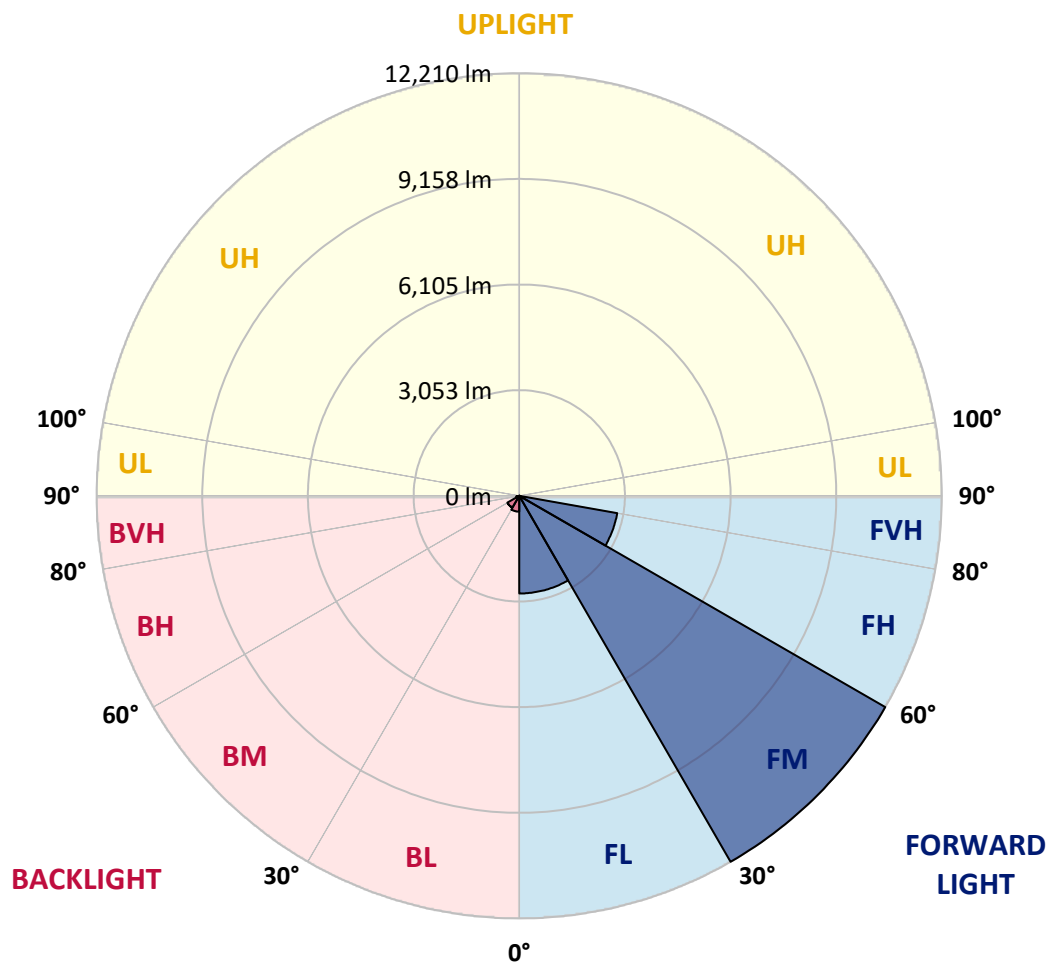
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2820.9	14.9			
FM	(30°-60°)	12210.4	64.7			
FH	(60°-80°)	2873.9	15.2			G2/5000
FVH	(80°-90°)	24.3	0.1			G1/100
BL	(0°-30°)	458.1	2.4	B1/500		
BM	(30°-60°)	395.6	2.1	B1/1000		
BH	(60°-80°)	86.8	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3
2.5°	5303.7	5224.7	5227.1	5191.3	5060.0	4957.4	4850.6	4825.3	4659.1	4484.7	4316.8
5°	6220.5	6162.7	6148.8	6079.5	5897.0	5703.9	5496.9	5448.8	5123.6	4766.7	4415.4
7.5°	6691.6	6692.4	6681.0	6655.7	6541.6	6354.2	6101.6	6051.0	5608.5	5073.1	4518.1
10°	6554.7	6585.6	6649.2	6733.1	6820.3	6796.7	6606.8	6561.2	6080.4	5397.4	4632.2
12.5°	6235.2	6239.3	6310.2	6447.9	6698.9	6956.4	6959.7	6944.2	6531.0	5736.5	4757.7
15°	6076.3	6091.8	6117.9	6206.7	6444.6	6857.0	7152.0	7174.0	6944.2	6096.7	4891.3
17.5°	6180.6	6202.6	6180.6	6191.2	6328.9	6699.7	7185.4	7241.7	7305.2	6452.8	5017.7
20°	6463.4	6483.8	6444.6	6401.5	6428.3	6654.1	7161.8	7237.6	7588.0	6769.0	5123.6
22.5°	6844.8	6852.9	6793.4	6722.5	6703.0	6808.9	7181.4	7259.6	7814.6	7055.0	5190.4
25°	7264.5	7271.8	7197.7	7116.2	7069.7	7112.9	7341.9	7400.6	8014.2	7328.1	5228.7
27.5°	7721.7	7728.2	7635.3	7535.1	7481.3	7482.9	7606.8	7669.5	8227.0	7639.4	5259.7
30°	8204.9	8201.7	8116.1	7976.8	7908.3	7906.7	7988.2	8051.7	8535.0	8038.7	5302.1
32.5°	8747.7	8741.2	8619.8	8447.0	8369.6	8381.0	8453.5	8490.2	8917.2	8464.1	5377.9
35°	9462.4	9443.7	9260.3	9046.0	8903.4	8899.3	8960.4	8989.7	9404.6	8979.2	5504.2
37.5°	10389.8	10372.7	10124.2	9812.8	9612.4	9537.4	9609.9	9647.4	10099.7	9640.1	5707.1
40°	11304.2	11287.1	11139.6	10854.4	10545.5	10365.4	10422.4	10462.4	10967.6	10442.0	5963.0
42.5°	11935.0	11949.7	12001.0	12024.6	11735.3	11357.2	11383.3	11424.8	11879.6	11299.3	6255.6
45°	12101.2	12133.0	12423.1	12992.8	13101.2	12806.2	12533.2	12556.0	12806.2	12156.7	6548.1
47.5°	11601.7	11660.3	12220.2	13279.7	14197.3	14405.9	13889.2	13859.1	13695.3	12850.2	6756.0
50°	10466.4	10520.2	11245.5	12812.7	14529.8	15933.1	15514.3	15425.4	14475.2	13265.0	6829.3
52.5°	8823.5	8888.7	9477.9	11342.5	13903.1	16614.4	17052.9	16978.7	15047.3	13297.6	6841.5
55°	6231.1	6310.2	6933.6	8693.1	11917.1	16072.5	17598.1	17576.1	15522.4	13211.2	6867.6
57.5°	3501.9	3558.9	4231.2	5572.6	8728.1	13999.3	17028.4	17174.3	15809.3	13061.3	6906.7
60°	1554.9	1570.4	1918.4	2774.1	5109.8	10698.7	15397.7	15643.8	15563.2	12860.8	6972.7
62.5°	862.2	849.2	849.2	1153.2	2220.7	6623.1	12556.0	12962.6	14512.7	12623.6	6976.0
65°	675.6	663.4	628.3	633.2	845.9	2939.5	8694.7	9417.6	12517.7	11928.5	6741.3
67.5°	572.9	562.3	527.3	513.4	525.6	969.8	4777.3	5527.8	9498.3	10121.7	5839.1
70°	484.1	476.7	458.8	441.7	410.7	479.2	1827.9	2338.1	5853.0	6733.1	3985.9
72.5°	389.5	386.3	392.8	378.1	340.7	319.5	625.1	757.1	2629.0	3004.7	1642.1
75°	335.8	334.1	337.4	322.7	280.3	222.5	317.8	347.2	741.6	735.1	332.5
77.5°	218.4	220.9	279.5	273.0	241.2	148.3	164.6	177.7	224.9	168.7	101.1
80°	139.4	137.7	141.8	226.6	216.8	113.3	82.3	86.4	108.4	83.1	48.9
82.5°	84.8	83.1	92.9	105.9	109.2	79.1	50.5	51.3	67.6	53.8	26.1
85°	7.3	9.8	56.2	52.2	37.5	24.4	24.4	26.1	35.9	31.8	14.7
87.5°	0.0	0.0	9.8	14.7	8.1	9.0	9.0	9.8	13.9	13.9	7.3
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°	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3	4226.3
2.5°	4229.6	4144.9	3973.7	3809.1	3669.7	3535.3	3382.1	3230.5	3159.6	3131.0	3101.7
5°	4236.9	4062.5	3709.7	3354.3	2986.0	2654.3	2371.5	2081.4	1936.3	1872.8	1843.4
7.5°	4246.7	3981.0	3410.6	2814.0	2220.7	1770.9	1378.1	1125.5	1016.2	999.1	956.8
10°	4248.4	3882.4	3063.4	2217.5	1488.9	1067.6	821.5	691.1	643.0	634.8	621.0
12.5°	4251.6	3765.9	2677.9	1642.1	992.6	713.9	594.1	550.9	537.9	537.1	537.1
15°	4261.4	3643.7	2277.8	1183.3	713.1	565.6	521.6	504.5	499.6	502.0	501.2
17.5°	4261.4	3499.4	1885.0	881.8	576.2	508.5	484.1	472.7	471.0	473.5	474.3
20°	4230.4	3324.2	1524.8	686.2	511.0	471.9	449.9	439.3	435.2	436.8	437.6
22.5°	4156.3	3109.0	1231.4	568.0	467.8	438.4	414.8	398.5	392.0	392.8	392.8
25°	4040.5	2854.0	963.3	491.4	432.7	402.6	374.9	356.1	352.1	351.2	352.9
27.5°	3892.2	2572.0	766.9	432.7	391.2	362.7	334.9	319.5	316.2	317.0	317.8
30°	3746.3	2279.4	604.7	383.0	344.7	317.8	296.6	289.3	289.3	291.8	292.6
32.5°	3612.7	1998.3	478.4	339.8	303.2	278.7	266.5	265.7	269.7	271.4	272.2
35°	3497.8	1738.3	396.1	306.4	270.6	249.4	245.3	248.6	253.5	256.7	257.5
37.5°	3416.3	1506.0	346.4	278.7	245.3	228.2	227.4	233.9	240.4	247.7	249.4
40°	3382.1	1309.6	312.1	254.3	224.9	211.9	209.4	218.4	230.6	241.2	242.9
42.5°	3353.5	1149.1	282.8	230.6	208.6	189.9	189.1	200.5	215.1	225.7	228.2
45°	3329.1	1020.3	255.9	205.4	187.4	163.0	165.4	180.1	191.5	202.9	205.4
47.5°	3278.6	914.4	226.6	178.5	154.8	139.4	144.2	157.3	166.3	183.4	185.8
50°	3188.1	828.0	196.4	145.9	126.3	120.6	127.9	136.9	148.3	163.0	164.6
52.5°	3127.0	762.8	170.3	122.2	104.3	105.9	113.3	116.5	123.1	128.8	127.1
55°	3091.9	726.9	149.1	105.9	88.8	93.7	95.3	91.3	88.0	82.3	79.9
57.5°	3087.9	694.3	132.8	92.1	78.2	80.7	75.0	61.1	49.7	43.2	41.6
60°	3081.3	654.4	119.8	77.4	69.3	66.0	53.8	33.4	23.6	22.0	22.0
62.5°	3010.4	592.5	110.0	65.2	58.7	49.7	31.0	15.5	13.0	13.9	13.9
65°	2784.7	506.1	100.2	53.0	46.5	35.9	15.5	9.0	4.9	5.7	5.7
67.5°	2367.4	403.4	89.6	40.7	35.0	22.8	9.0	4.1	0.0	0.0	0.0
70°	1585.1	250.2	75.8	28.5	22.8	13.9	6.5	0.8	0.0	0.0	0.0
72.5°	608.0	135.3	61.1	17.1	14.7	9.8	4.1	0.0	0.0	0.0	0.0
75°	136.9	88.8	42.4	12.2	10.6	6.5	1.6	0.0	0.0	0.0	0.0
77.5°	52.2	64.4	24.4	8.1	7.3	4.1	0.0	0.0	0.0	0.0	0.0
80°	25.3	38.3	11.4	4.9	4.1	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	14.7	4.9	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	7.3	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.4	0.8	0.8	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)