

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: P324888

Luminaire Tested: **GAN-SA4C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324888
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-SA4C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 23356 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

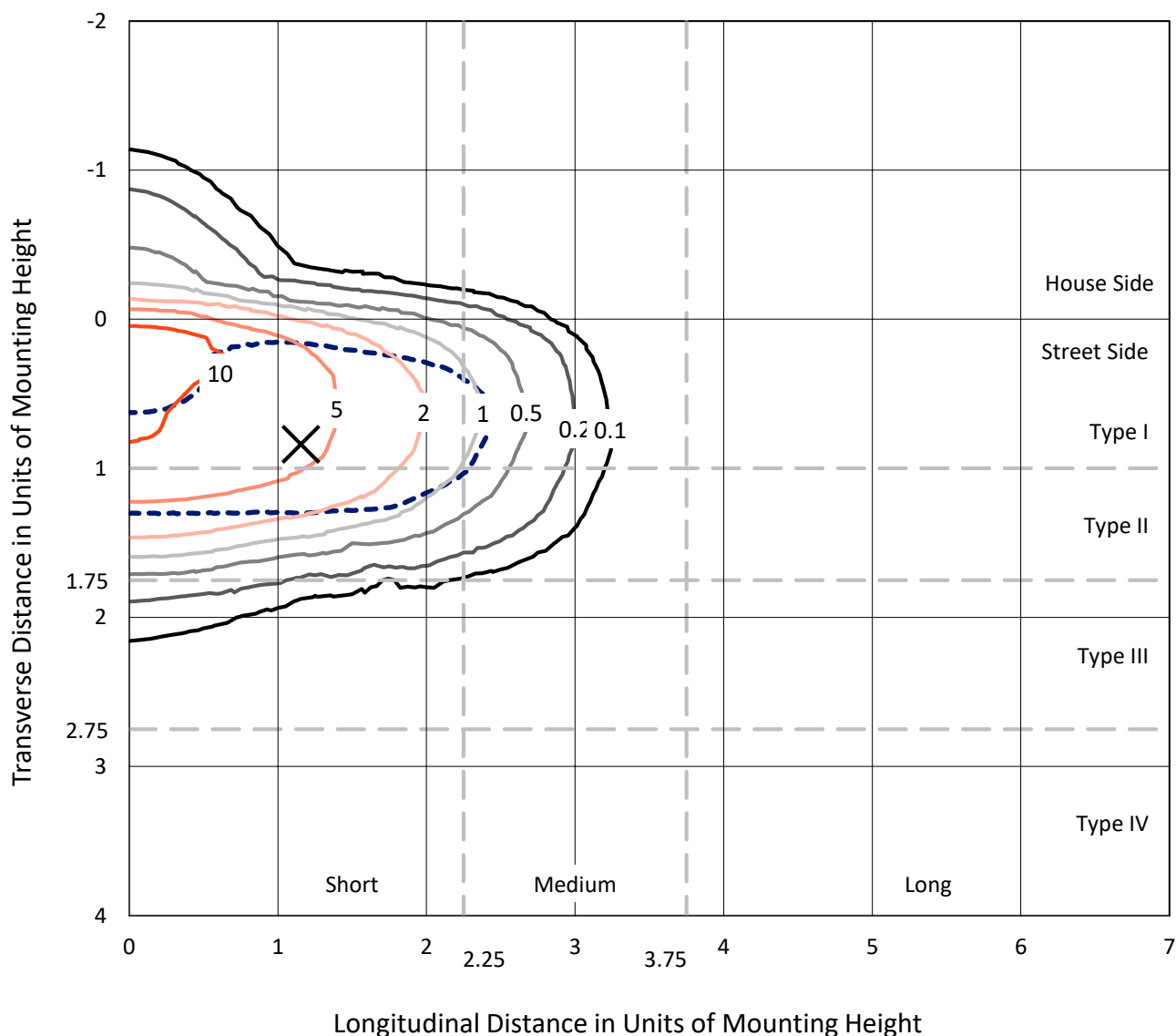
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

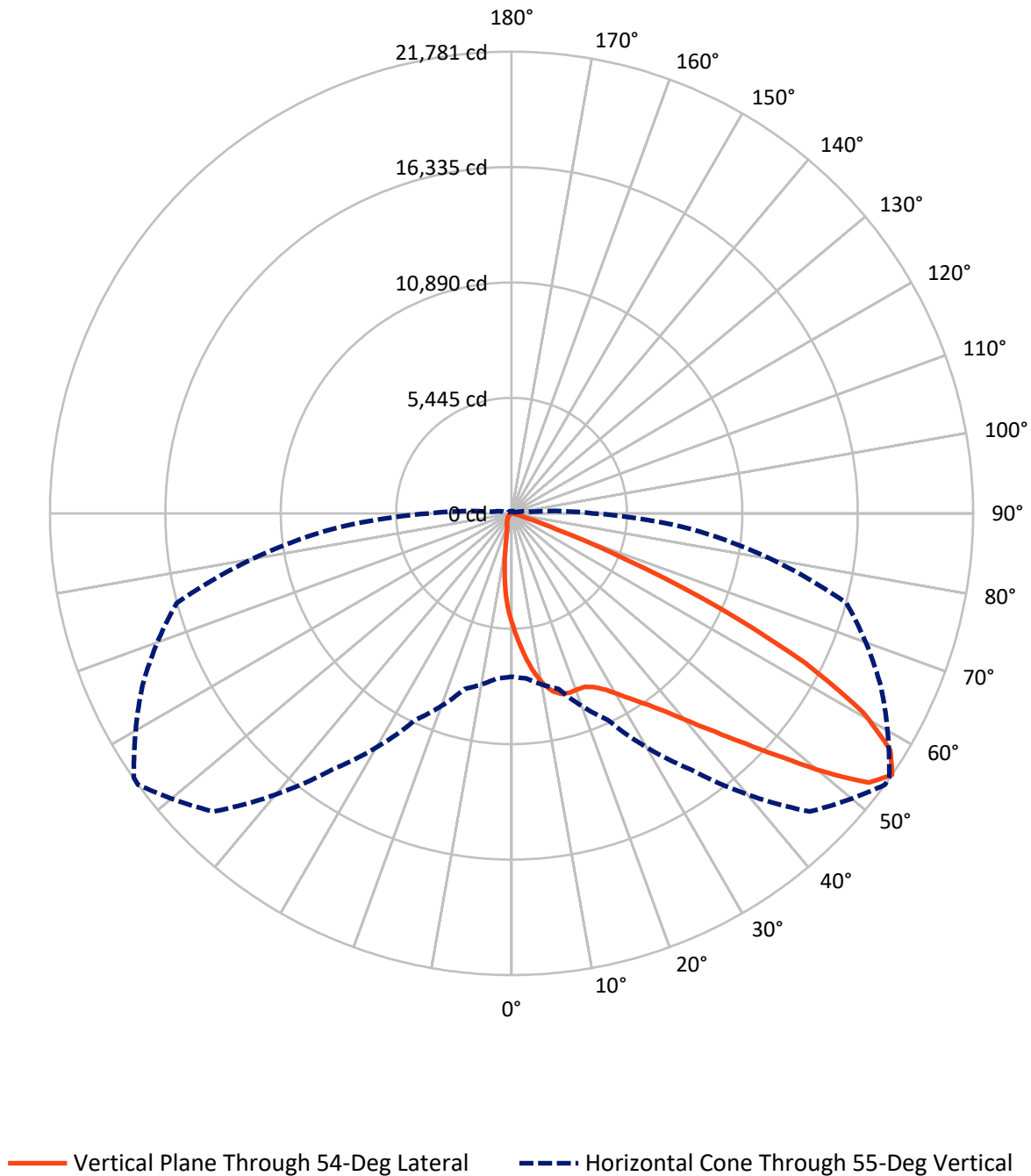
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	1165.3	0.0	1165.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22190.7	0.0	22190.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	23356.0	0.0	23356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	2.1
10°-20°	1321.1	5.7
20°-30°	2255.5	9.7
30°-40°	3619.7	15.5
40°-50°	5784.3	24.8
50°-60°	6198.0	26.5
60°-70°	3182.3	13.6
70°-80°	482.0	2.1
80°-90°	31.4	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°	23356.0	100.0
0°-180°	23356.0	100.0

Coefficient of Utilization



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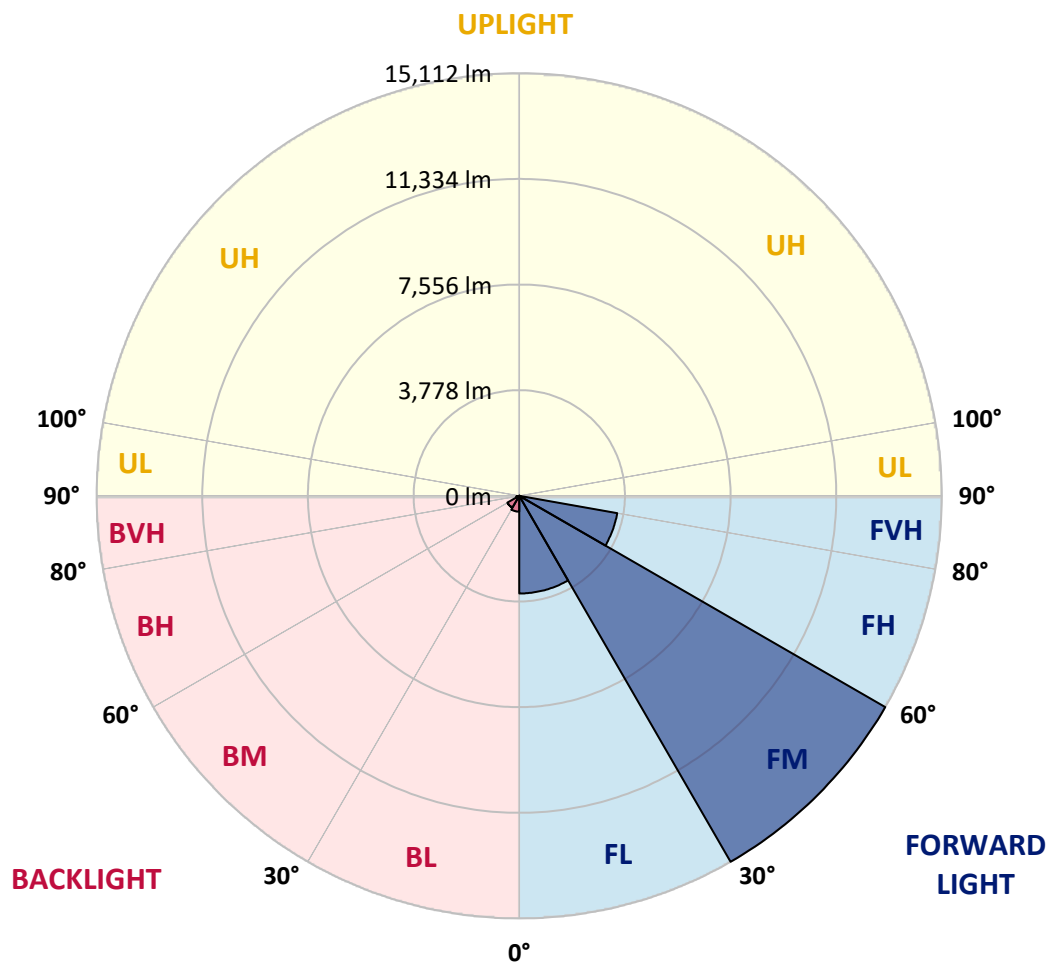
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3491.3	14.9			
FM	(30°-60°)	15112.4	64.7			
FH	(60°-80°)	3556.9	15.2			G2/5000
FVH	(80°-90°)	30.1	0.1			G1/100
BL	(0°-30°)	567.0	2.4	B2/1000		
BM	(30°-60°)	489.7	2.1	B1/1000		
BH	(60°-80°)	107.4	0.5	B0/110		G0/110
BVH	(80°-90°)	1.3	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8
2.5°	6564.2	6466.4	6469.4	6425.0	6262.6	6135.6	6003.4	5972.2	5766.4	5550.5	5342.8
5°	7698.9	7627.3	7610.2	7524.5	7298.5	7059.5	6803.3	6743.8	6341.3	5899.5	5464.8
7.5°	8281.9	8283.0	8268.8	8237.6	8096.4	7864.4	7551.7	7489.2	6941.5	6278.8	5591.9
10°	8112.5	8150.8	8229.5	8333.4	8441.3	8412.1	8177.0	8120.6	7525.5	6680.2	5733.1
12.5°	7717.1	7722.1	7809.9	7980.4	8291.0	8609.8	8613.8	8594.6	8083.2	7099.8	5888.4
15°	7520.4	7539.6	7571.9	7681.8	7976.3	8486.7	8851.8	8879.1	8594.6	7545.6	6053.9
17.5°	7649.5	7676.8	7649.5	7662.6	7833.1	8292.0	8893.2	8962.8	9041.4	7986.4	6210.2
20°	7999.5	8024.7	7976.3	7922.9	7956.2	8235.5	8863.9	8957.7	9391.4	8377.8	6341.3
22.5°	8471.6	8481.7	8408.0	8320.3	8296.1	8427.2	8888.1	8985.0	9671.8	8731.8	6424.0
25°	8991.0	9000.1	8908.3	8807.4	8750.0	8803.4	9086.8	9159.5	9919.0	9069.7	6471.4
27.5°	9556.9	9564.9	9449.9	9325.9	9259.3	9261.3	9414.6	9492.3	10182.2	9455.0	6509.8
30°	10155.0	10151.0	10045.0	9872.6	9787.8	9785.8	9886.7	9965.4	10563.5	9949.2	6562.2
32.5°	10826.7	10818.7	10668.4	10454.6	10358.7	10372.9	10462.6	10508.0	11036.5	10475.7	6656.0
35°	11711.3	11688.1	11461.2	11195.9	11019.4	11014.3	11090.0	11126.3	11639.7	11113.2	6812.4
37.5°	12859.2	12838.0	12530.3	12145.0	11896.9	11804.1	11893.9	11940.3	12500.1	11931.2	7063.5
40°	13990.8	13969.7	13787.1	13434.1	13051.8	12828.9	12899.5	12948.9	13574.3	12923.7	7380.2
42.5°	14771.5	14789.7	14853.2	14882.5	14524.4	14056.4	14088.7	14140.1	14702.9	13984.8	7742.3
45°	14977.3	15016.6	15375.7	16080.7	16214.9	15849.8	15511.9	15540.1	15849.8	15045.9	8104.4
47.5°	14359.0	14431.6	15124.6	16435.8	17571.5	17829.7	17190.3	17152.9	16950.2	15904.2	8361.6
50°	12954.0	13020.5	13918.2	15857.8	17983.0	19719.9	19201.5	19091.5	17915.5	16417.6	8452.4
52.5°	10920.5	11001.2	11730.5	14038.3	17207.4	20563.1	21105.8	21014.0	18623.5	16458.0	8467.5
55°	7712.1	7809.9	8581.5	10759.2	14749.3	19892.4	21780.6	21753.3	19211.6	16351.1	8499.8
57.5°	4334.1	4404.7	5236.9	6897.1	10802.5	17326.4	21075.5	21256.1	19566.6	16165.5	8548.2
60°	1924.5	1943.6	2374.3	3433.4	6324.2	13241.4	19057.2	19361.9	19262.0	15917.3	8629.9
62.5°	1067.1	1051.0	1051.0	1427.2	2748.5	8197.2	15540.1	16043.4	17961.9	15623.8	8634.0
65°	836.2	821.0	777.7	783.7	1047.0	3638.2	10761.2	11655.8	15492.7	14763.5	8343.5
67.5°	709.1	696.0	652.6	635.4	650.6	1200.3	5912.6	6841.6	11755.7	12527.3	7226.9
70°	599.1	590.1	567.9	546.7	508.4	593.1	2262.4	2893.8	7244.1	8333.4	4933.3
72.5°	482.1	478.1	486.2	468.0	421.6	395.4	773.6	937.0	3253.9	3718.9	2032.4
75°	415.6	413.5	417.6	399.4	347.0	275.4	393.4	429.7	917.9	909.8	411.5
77.5°	270.3	273.3	346.0	337.9	298.6	183.6	203.7	219.9	278.4	208.8	125.1
80°	172.5	170.5	175.5	280.4	268.3	140.2	101.9	106.9	134.1	102.9	60.5
82.5°	104.9	102.9	115.0	131.1	135.2	97.8	62.5	63.5	83.7	66.6	32.3
85°	9.1	12.1	69.6	64.6	46.4	30.3	30.3	32.3	44.4	39.3	18.2
87.5°	0.0	0.0	12.1	18.2	10.1	11.1	11.1	12.1	17.1	17.1	9.1
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°	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8	5230.8
2.5°	5234.8	5129.9	4918.1	4714.4	4541.9	4375.5	4185.9	3998.2	3910.5	3875.2	3838.9
5°	5243.9	5028.1	4591.3	4151.6	3695.7	3285.1	2935.1	2576.1	2396.5	2317.9	2281.5
7.5°	5256.0	4927.2	4221.2	3482.8	2748.5	2191.8	1705.6	1392.9	1257.8	1236.6	1184.1
10°	5258.0	4805.2	3791.5	2744.5	1842.8	1321.3	1016.7	855.3	795.8	785.7	768.6
12.5°	5262.1	4660.9	3314.4	2032.4	1228.5	883.6	735.3	681.8	665.7	664.7	664.7
15°	5274.2	4509.6	2819.1	1464.5	882.6	700.0	645.5	624.3	618.3	621.3	620.3
17.5°	5274.2	4331.1	2333.0	1091.3	713.1	629.4	599.1	585.0	583.0	586.0	587.0
20°	5235.8	4114.2	1887.2	849.3	632.4	584.0	556.8	543.7	538.6	540.6	541.6
22.5°	5144.1	3848.0	1524.1	703.0	579.0	542.6	513.4	493.2	485.2	486.2	486.2
25°	5000.8	3532.3	1192.2	608.2	535.6	498.3	464.0	440.8	435.7	434.7	436.7
27.5°	4817.3	3183.3	949.1	535.6	484.1	448.8	414.6	395.4	391.4	392.4	393.4
30°	4636.7	2821.2	748.4	474.1	426.7	393.4	367.1	358.1	358.1	361.1	362.1
32.5°	4471.3	2473.2	592.1	420.6	375.2	345.0	329.8	328.8	333.9	335.9	336.9
35°	4329.1	2151.4	490.2	379.2	334.9	308.6	303.6	307.6	313.7	317.7	318.7
37.5°	4228.2	1864.0	428.7	345.0	303.6	282.4	281.4	289.5	297.5	306.6	308.6
40°	4185.9	1620.9	386.3	314.7	278.4	262.2	259.2	270.3	285.4	298.6	300.6
42.5°	4150.6	1422.2	350.0	285.4	258.2	235.0	234.0	248.1	266.3	279.4	282.4
45°	4120.3	1262.8	316.7	254.2	232.0	201.7	204.8	222.9	237.0	251.2	254.2
47.5°	4057.8	1131.7	280.4	220.9	191.6	172.5	178.5	194.7	205.8	226.9	230.0
50°	3945.8	1024.8	243.1	180.5	156.3	149.3	158.4	169.5	183.6	201.7	203.7
52.5°	3870.2	944.1	210.8	151.3	129.1	131.1	140.2	144.2	152.3	159.4	157.3
55°	3826.8	899.7	184.6	131.1	109.9	116.0	118.0	113.0	108.9	101.9	98.8
57.5°	3821.7	859.4	164.4	114.0	96.8	99.9	92.8	75.6	61.5	53.5	51.4
60°	3813.7	809.9	148.3	95.8	85.7	81.7	66.6	41.4	29.3	27.2	27.2
62.5°	3725.9	733.3	136.2	80.7	72.6	61.5	38.3	19.2	16.1	17.1	17.1
65°	3446.5	626.4	124.1	65.6	57.5	44.4	19.2	11.1	6.1	7.1	7.1
67.5°	2930.1	499.3	111.0	50.4	43.4	28.2	11.1	5.0	0.0	0.0	0.0
70°	1961.8	309.7	93.8	35.3	28.2	17.1	8.1	1.0	0.0	0.0	0.0
72.5°	752.4	167.4	75.6	21.2	18.2	12.1	5.0	0.0	0.0	0.0	0.0
75°	169.5	109.9	52.4	15.1	13.1	8.1	2.0	0.0	0.0	0.0	0.0
77.5°	64.6	79.7	30.3	10.1	9.1	5.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	47.4	14.1	6.1	5.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.1	18.2	6.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	9.1	3.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	3.0	1.0	1.0	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)