

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: P192681

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 15783.6 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
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: 28.75 FT

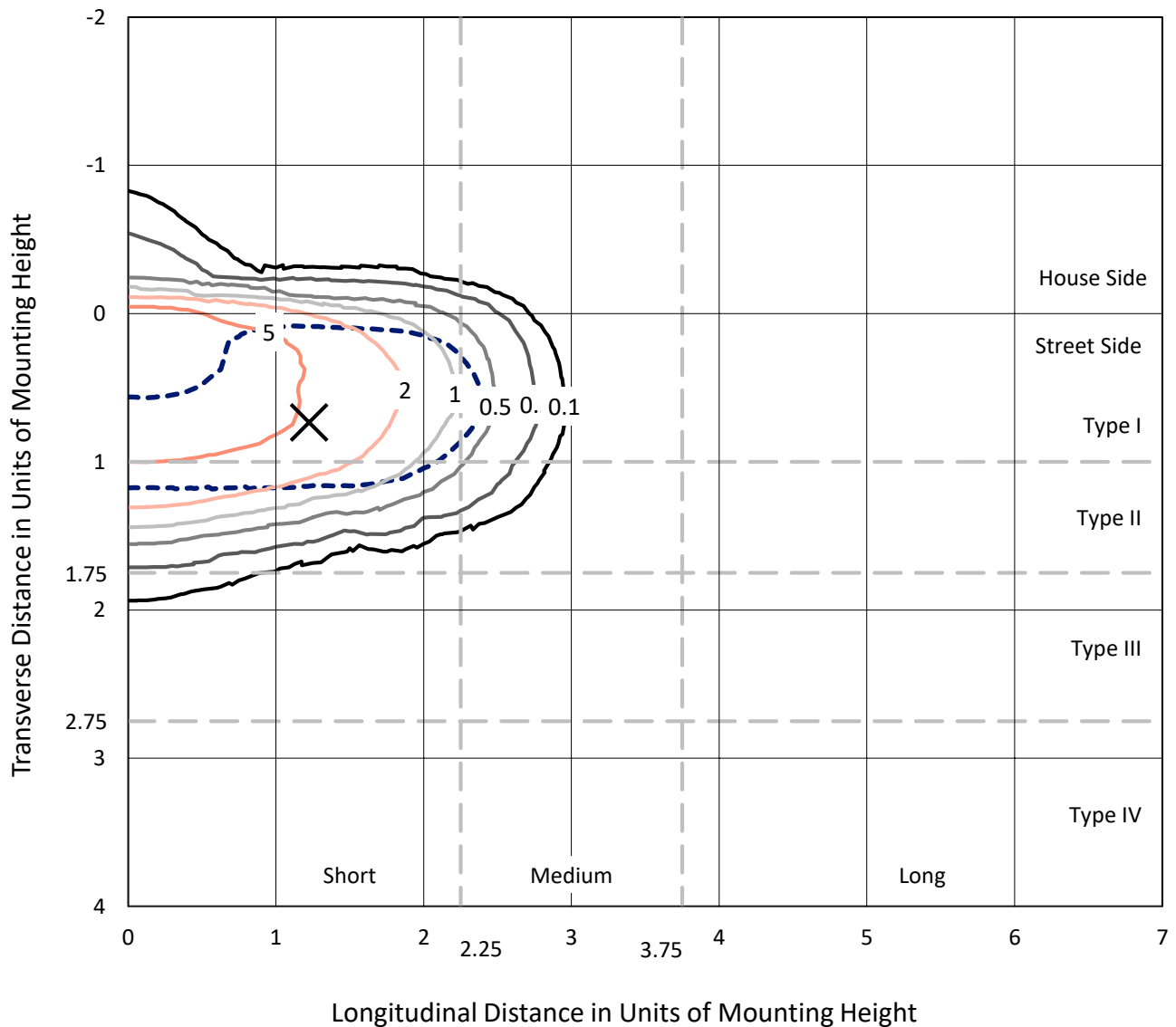


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

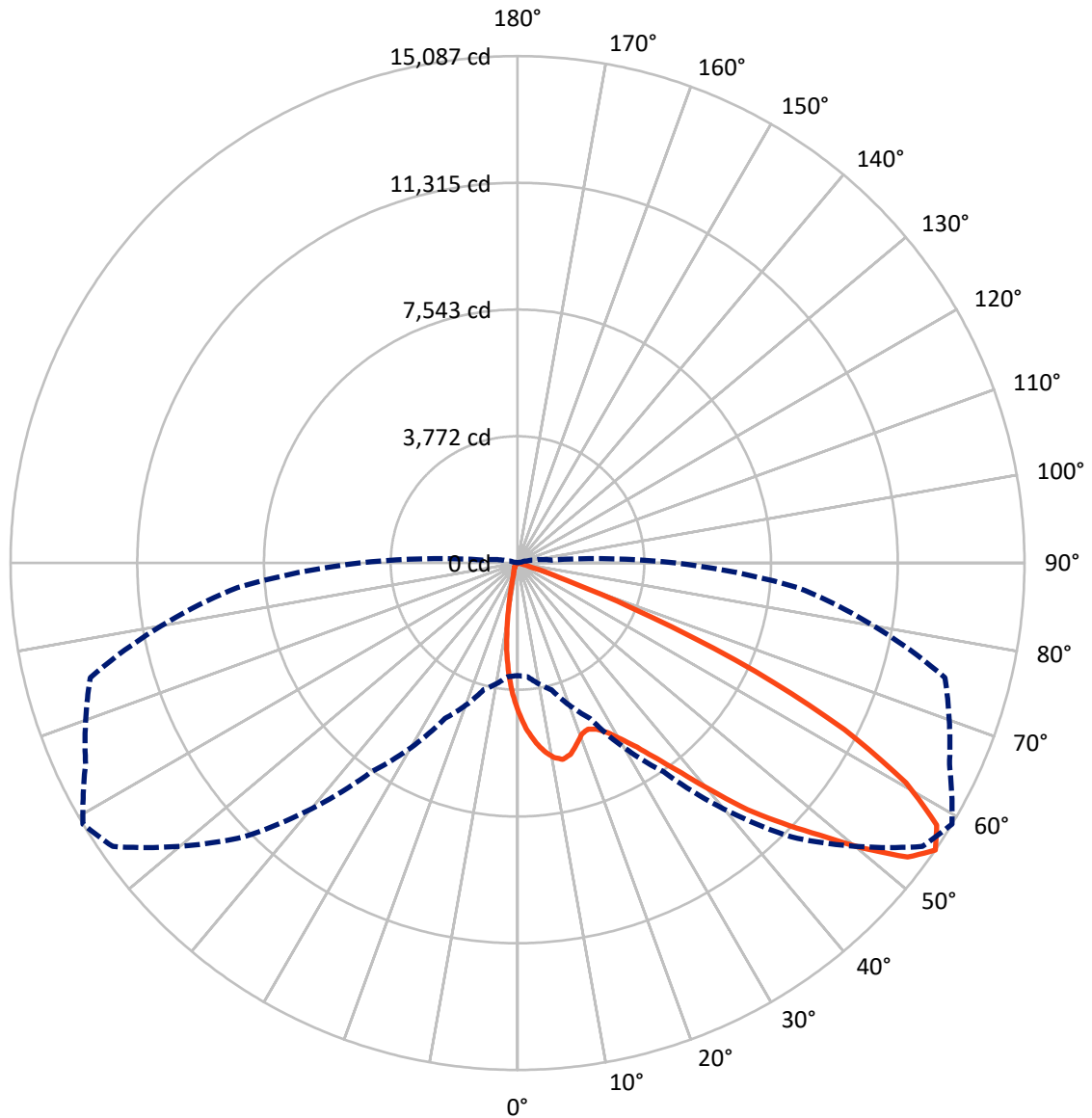


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.6	0.0	881.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14902.0	0.0	14902.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	15783.6	0.0	15783.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	2.4
10°-20°	891.0	5.6
20°-30°	1516.2	9.6
30°-40°	2607.5	16.5
40°-50°	4025.7	25.5
50°-60°	4047.1	25.6
60°-70°	2075.4	13.1
70°-80°	224.9	1.4
80°-90°	23.5	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°	15783.6	100.0
0°-180°	15783.6	100.0

Coefficient of Utilization



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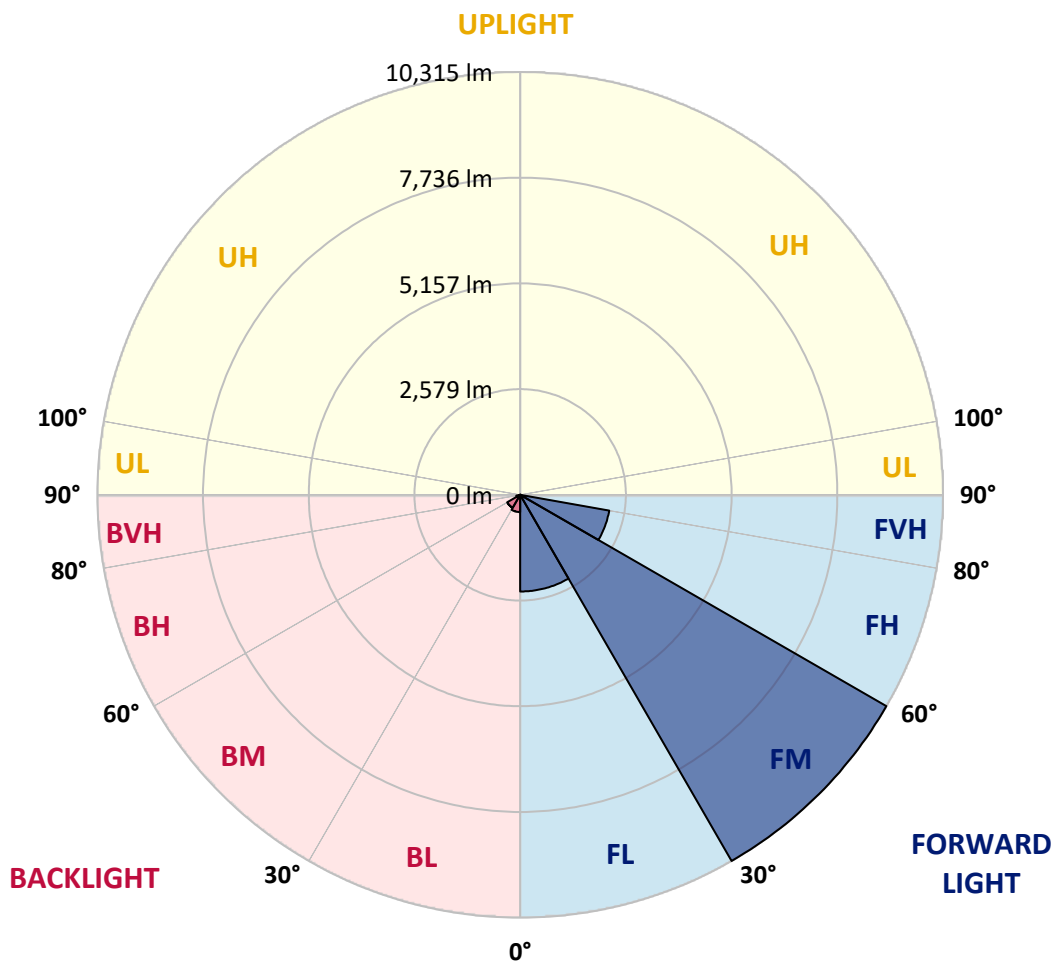
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2358.6	14.9			
FM (30°-60°)	10314.5	65.3			
FH (60°-80°)	2205.9	14.0			G2/5000
FVH (80°-90°)	23.0	0.1			G1/100
BL (0°-30°)	420.8	2.7	B1/500		
BM (30°-60°)	365.9	2.3	B1/1000		
BH (60°-80°)	94.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.5	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°	55°	59°	65°	75°	85°
0°	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0
2.5°	5257.1	5201.2	5184.5	5173.3	5122.1	5057.8	4970.2	4929.2	4845.4	4710.3	4544.5
5°	5738.7	5728.5	5691.2	5670.7	5615.7	5524.4	5384.8	5317.6	5184.5	4957.2	4660.0
7.5°	5528.2	5592.4	5643.7	5729.3	5837.4	5833.7	5716.3	5646.4	5497.4	5197.5	4788.7
10°	4715.0	4767.2	4851.0	5045.7	5442.4	5792.7	5930.6	5880.3	5761.0	5418.2	4912.6
12.5°	4555.8	4550.1	4565.1	4621.8	4829.6	5328.8	5894.2	5995.7	5971.6	5620.4	5029.9
15°	4640.5	4634.0	4632.1	4651.7	4702.0	4912.6	5621.3	5912.9	6100.1	5807.5	5129.5
17.5°	4878.0	4850.0	4835.2	4819.3	4804.4	4856.6	5293.4	5680.9	6119.6	5971.6	5212.4
20°	5285.1	5238.4	5183.5	5094.1	5010.3	4984.2	5155.6	5442.4	6049.8	6096.3	5266.4
22.5°	5796.4	5736.7	5641.8	5478.8	5308.4	5209.6	5223.5	5367.1	5945.5	6232.3	5291.5
25°	6371.1	6294.8	6168.1	5941.7	5691.2	5516.1	5424.7	5475.1	5898.0	6391.6	5320.5
27.5°	6986.8	6902.0	6736.3	6427.9	6143.8	5907.3	5721.0	5714.5	5979.0	6600.3	5367.1
30°	7596.9	7583.9	7367.8	7041.8	6665.5	6377.7	6109.3	6075.0	6205.4	6889.1	5459.2
32.5°	8411.0	8313.2	8048.7	7713.3	7279.3	6933.7	6616.0	6536.0	6552.8	7225.4	5601.7
35°	9437.5	9330.3	8957.7	8494.8	8009.6	7601.6	7250.5	7141.4	7100.4	7775.8	5842.1
37.5°	10100.7	10098.9	9865.0	9393.7	8873.1	8423.2	8041.3	7913.6	7830.7	8440.9	6214.6
40°	10118.4	10162.1	10192.9	10188.2	9817.5	9403.0	9063.9	8906.5	8713.8	9329.4	6696.2
42.5°	9575.4	9688.0	9959.1	10419.2	10639.0	10474.1	10188.2	10033.6	9746.7	10280.4	7283.0
45°	8841.4	8919.6	9393.7	10241.3	11084.3	11536.0	11318.0	11041.4	10663.2	11272.4	7809.3
47.5°	8512.5	8526.5	8832.9	9763.5	11117.7	12406.0	12538.3	12088.3	11495.9	12071.6	8221.0
50°	7529.8	7554.9	7977.9	8935.4	10724.8	12816.7	13764.1	13337.5	12404.1	12687.3	8371.0
52.5°	5675.4	5710.8	6247.2	7574.6	9644.2	12641.7	14641.5	14538.1	13398.9	12988.2	8379.3
55°	3348.6	3395.1	3907.4	5098.8	7585.8	11527.6	14706.8	15086.7	14184.1	13166.1	8366.3
57.5°	1563.9	1596.5	1889.9	2626.7	4717.9	9110.5	13724.9	14710.4	14617.2	13260.1	8458.6
60°	830.8	840.2	911.0	1137.3	2132.0	5776.9	11809.0	13283.4	14222.4	13390.6	8571.2
62.5°	635.3	638.1	634.4	661.3	896.0	2564.4	8926.2	10920.4	12632.3	13292.7	8446.4
65°	550.4	555.1	529.1	522.6	574.7	914.7	5302.8	7784.1	9926.5	11972.8	7596.0
67.5°	493.7	495.5	464.0	436.8	446.3	494.6	2092.0	4261.4	6570.5	8776.1	5505.8
70°	454.5	452.7	418.3	375.5	363.3	338.1	665.1	1562.1	3139.9	4450.4	2560.6
72.5°	402.4	403.2	386.6	330.6	301.8	236.5	308.3	455.5	937.0	1212.8	599.9
75°	356.7	352.2	331.6	296.2	248.7	155.5	152.8	203.0	288.8	287.0	129.5
77.5°	258.0	253.4	259.9	243.1	190.9	100.6	76.4	97.8	117.4	113.6	36.3
80°	189.1	186.3	167.7	202.1	168.6	69.0	47.5	52.1	60.5	51.3	11.2
82.5°	129.5	128.5	118.3	111.8	95.9	41.9	29.8	32.6	39.2	28.9	5.6
85°	20.5	23.3	85.7	68.0	56.9	18.7	20.5	22.4	26.1	15.9	1.8
87.5°	0.0	0.0	40.1	35.4	11.2	7.4	12.1	13.0	13.0	8.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0	4443.0
2.5°	4459.8	4366.6	4194.4	4016.4	3851.5	3655.0	3520.0	3418.4	3301.0	3269.4	3338.3
5°	4490.5	4314.4	3943.7	3540.4	3161.3	2741.4	2419.9	2165.6	1935.5	1857.3	1928.1
7.5°	4538.9	4277.2	3672.7	3008.6	2349.1	1693.4	1244.5	949.1	761.0	705.2	734.9
10°	4587.4	4223.2	3358.8	2378.9	1477.3	824.4	536.5	428.6	388.4	380.0	384.7
12.5°	4627.4	4150.5	2976.0	1691.6	789.8	441.5	351.2	333.5	327.9	327.9	329.8
15°	4651.7	4040.6	2522.4	1075.8	454.5	333.5	306.5	300.9	300.9	301.8	303.6
17.5°	4648.9	3900.9	2025.8	651.0	340.1	295.2	279.4	274.8	273.8	275.7	276.7
20°	4614.4	3718.3	1527.6	429.4	296.2	269.3	253.4	245.0	244.0	246.0	247.8
22.5°	4549.2	3492.9	1092.6	330.6	267.3	244.0	224.5	217.0	217.0	218.8	220.7
25°	4470.1	3217.2	747.0	280.4	241.3	217.0	198.5	191.9	193.7	198.5	199.3
27.5°	4371.4	2907.1	507.6	240.3	209.6	190.0	176.0	171.4	176.0	182.6	184.4
30°	4286.6	2583.9	362.3	207.7	177.9	163.9	155.5	155.5	162.0	174.2	177.0
32.5°	4221.3	2270.9	279.4	183.4	154.6	142.5	137.8	142.5	152.8	164.9	167.7
35°	4212.9	2012.9	236.5	163.9	137.8	125.7	123.9	132.3	142.5	151.9	153.7
37.5°	4277.2	1774.4	213.3	148.0	122.9	111.8	110.0	120.1	130.4	141.6	144.3
40°	4399.3	1587.2	196.5	133.2	110.8	98.8	95.0	102.4	116.5	131.3	135.1
42.5°	4557.6	1432.6	177.9	118.3	98.8	82.0	77.3	85.7	100.6	116.5	121.1
45°	4708.5	1299.4	157.5	101.5	82.9	63.4	61.5	72.6	80.1	95.9	99.7
47.5°	4791.3	1181.9	139.8	82.9	64.3	51.3	51.3	54.0	61.5	80.1	83.8
50°	4763.4	1087.9	121.1	61.5	44.7	39.2	39.2	38.2	49.3	64.3	67.0
52.5°	4707.6	1033.9	104.4	47.5	30.7	28.0	25.1	28.0	34.4	41.0	41.9
55°	4699.1	1024.7	87.5	38.2	21.5	18.7	13.9	13.9	13.9	13.0	11.2
57.5°	4764.4	1039.5	73.5	30.7	15.9	12.1	7.4	0.0	0.0	0.0	0.0
60°	4831.5	1055.3	63.4	21.5	11.2	6.5	1.0	0.0	0.0	0.0	0.0
62.5°	4719.7	1019.9	53.1	13.0	8.4	2.8	0.0	0.0	0.0	0.0	0.0
65°	4145.9	868.1	41.9	9.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2949.0	581.3	28.0	5.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1346.0	243.1	17.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	287.8	75.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	58.7	54.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.7	86.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.2	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)