

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: P268740

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268740
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-08-LED-U-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 33929.8 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 445
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

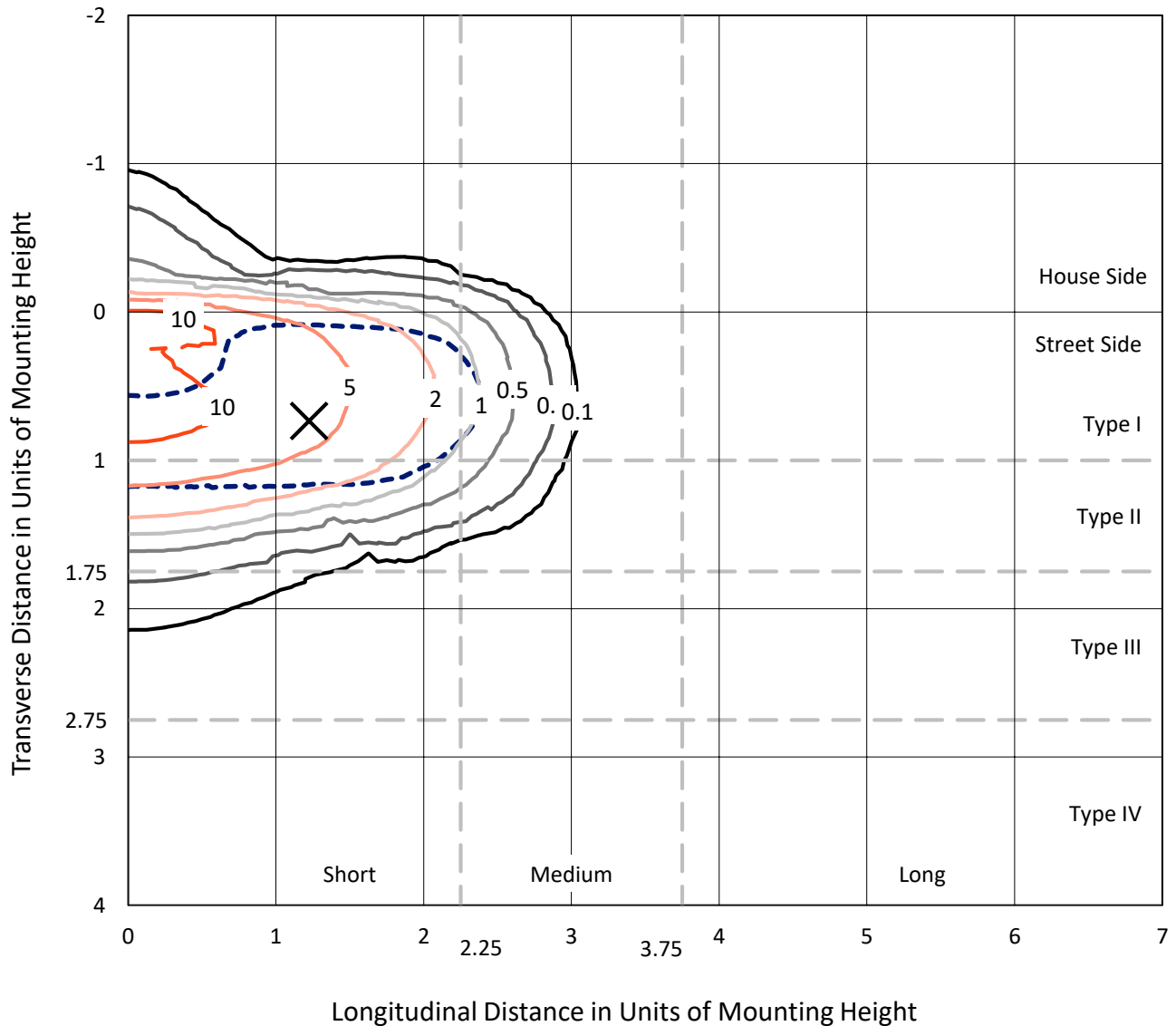


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

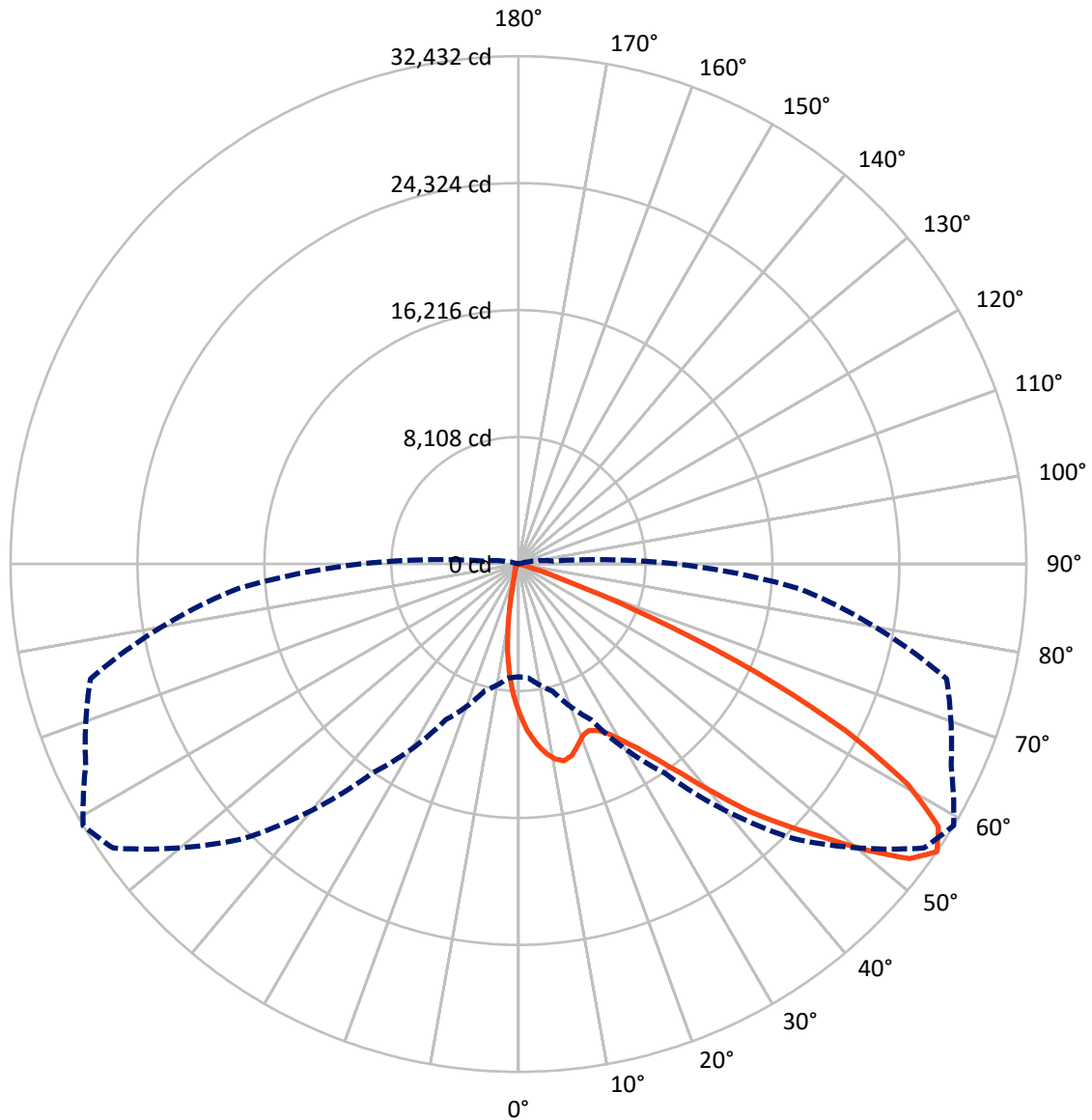


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

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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	1895.2	0.0	1895.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	32034.6	0.0	32034.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	33929.8	0.0	33929.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.0	2.4
10°-20°	1915.4	5.6
20°-30°	3259.3	9.6
30°-40°	5605.4	16.5
40°-50°	8654.1	25.5
50°-60°	8700.1	25.6
60°-70°	4461.5	13.1
70°-80°	483.5	1.4
80°-90°	50.5	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°	33929.8	100.0
0°-180°	33929.8	100.0

Coefficient of Utilization



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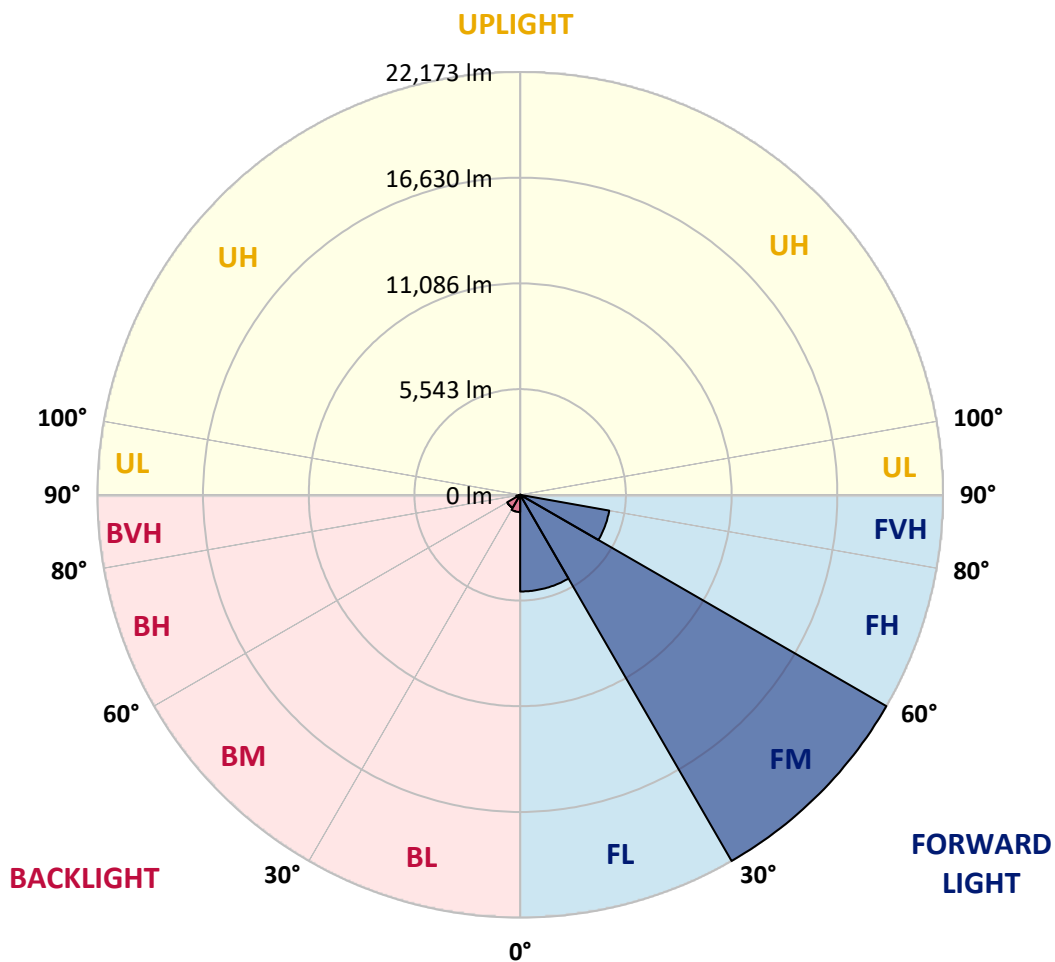
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5070.2	14.9			
FM	(30°-60°)	22173.0	65.3			
FH	(60°-80°)	4741.9	14.0			G2/5000
FVH	(80°-90°)	49.5	0.1			G1/100
BL	(0°-30°)	904.6	2.7	B2/1000		
BM	(30°-60°)	786.5	2.3	B1/1000		
BH	(60°-80°)	203.0	0.6	B1/500		G1/500
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: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0
2.5°	11301.1	11181.1	11145.0	11120.9	11010.9	10872.6	10684.4	10596.3	10416.1	10125.8	9769.3
5°	12336.3	12314.3	12234.2	12190.2	12072.1	11875.9	11575.5	11431.3	11145.0	10656.5	10017.7
7.5°	11883.9	12021.9	12132.1	12316.3	12548.7	12540.6	12288.4	12138.2	11817.7	11172.9	10293.9
10°	10135.8	10248.0	10428.2	10846.7	11699.6	12452.6	12748.8	12640.7	12384.5	11647.6	10560.3
12.5°	9793.4	9781.4	9813.4	9935.6	10382.2	11455.4	12670.8	12889.1	12837.0	12082.1	10812.5
15°	9975.6	9961.7	9957.6	9999.7	10107.8	10560.3	12084.1	12710.7	13113.3	12484.6	11026.9
17.5°	10486.3	10426.2	10394.1	10360.1	10328.1	10440.1	11379.3	12212.2	13155.3	12837.0	11205.1
20°	11361.3	11261.2	11142.9	10950.8	10770.6	10714.4	11082.8	11699.6	13005.1	13105.3	11321.2
22.5°	12460.5	12332.3	12128.1	11777.7	11411.3	11199.0	11229.1	11537.4	12780.8	13397.6	11375.2
25°	13696.0	13531.8	13259.4	12772.9	12234.2	11857.7	11661.5	11769.8	12678.8	13739.9	11437.3
27.5°	15019.5	14837.2	14480.9	13818.1	13207.4	12698.8	12298.3	12284.3	12852.9	14188.5	11537.4
30°	16330.9	16303.0	15838.5	15137.6	14328.7	13709.9	13133.3	13059.2	13339.6	14809.3	11735.6
32.5°	18081.1	17870.8	17302.2	16581.4	15648.3	14905.3	14222.5	14050.4	14086.4	15532.1	12042.0
35°	20287.6	20057.4	19256.3	18261.3	17218.1	16341.0	15586.1	15351.9	15263.8	16715.4	12558.7
37.5°	21713.3	21709.2	21206.6	20193.4	19074.3	18107.0	17286.2	17011.8	16833.6	18145.1	13359.6
40°	21751.3	21845.4	21911.5	21901.4	21104.6	20213.5	19484.6	19146.3	18731.7	20055.4	14394.8
42.5°	20583.9	20826.2	21408.9	22398.1	22870.6	22516.1	21901.4	21569.2	20952.3	22099.7	15656.2
45°	19006.1	19174.3	20193.4	22015.7	23827.7	24798.9	24330.4	23735.6	22922.7	24232.1	16787.5
47.5°	18299.4	18329.3	18988.2	20988.4	23899.9	26669.1	26953.4	25986.3	24712.8	25950.1	17672.5
50°	16186.9	16240.8	17150.0	19208.4	23054.8	27552.1	29588.5	28671.5	26665.1	27273.8	17994.9
52.5°	12200.2	12276.2	13429.7	16282.9	20732.2	27175.6	31474.6	31252.5	28803.6	27920.5	18013.0
55°	7198.4	7298.5	8399.8	10960.8	16307.0	24780.9	31614.8	32431.8	30491.4	28303.0	17985.0
57.5°	3361.8	3432.1	4062.8	5646.6	10141.9	19584.8	29504.3	31622.9	31422.6	28505.1	18183.1
60°	1786.1	1806.1	1958.2	2444.8	4583.3	12418.4	25385.6	28555.2	30573.6	28785.5	18425.5
62.5°	1365.7	1371.6	1363.5	1421.7	1926.2	5512.4	19188.3	23475.3	27155.7	28575.3	18157.1
65°	1183.3	1193.4	1137.3	1123.3	1235.3	1966.3	11399.3	16733.4	21338.9	25738.0	16329.0
67.5°	1061.3	1065.2	997.2	939.1	959.1	1063.2	4497.3	9160.6	14124.4	18865.9	11835.8
70°	977.1	973.1	899.1	806.9	780.8	726.9	1429.7	3358.0	6749.9	9567.2	5504.5
72.5°	865.0	867.0	830.9	710.7	648.8	508.6	662.8	979.2	2014.4	2607.1	1289.4
75°	767.0	756.9	712.9	636.8	534.6	334.3	328.4	436.4	620.6	616.7	278.4
77.5°	554.7	544.6	558.7	522.6	410.4	216.2	164.2	210.3	252.3	244.2	78.2
80°	406.5	400.5	360.4	434.5	362.5	148.2	102.0	112.1	130.2	110.1	24.1
82.5°	278.4	276.3	254.3	240.2	206.3	90.1	64.0	70.1	84.1	62.1	11.9
85°	44.0	50.0	184.2	146.2	122.1	40.1	44.0	48.1	56.1	34.0	4.0
87.5°	0.0	0.0	86.1	76.0	24.1	16.0	26.1	28.0	28.0	18.1	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°	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0	9551.0
2.5°	9587.3	9386.8	9016.5	8634.1	8279.7	7857.1	7566.9	7348.6	7096.3	7028.2	7176.4
5°	9653.2	9274.8	8477.8	7610.9	6795.9	5892.8	5202.1	4655.5	4160.9	3992.6	4144.8
7.5°	9757.4	9194.7	7895.3	6467.5	5049.9	3640.2	2675.2	2040.4	1636.0	1515.8	1579.8
10°	9861.5	9078.6	7220.3	5114.0	3175.7	1772.0	1153.3	921.1	835.0	817.0	827.0
12.5°	9947.7	8922.3	6397.5	3636.2	1697.9	949.1	754.8	716.8	704.8	704.8	708.9
15°	9999.7	8686.2	5422.3	2312.6	977.1	716.8	658.7	646.8	646.8	648.8	652.8
17.5°	9993.6	8385.8	4355.1	1399.6	730.9	634.7	600.6	590.6	588.7	592.7	594.7
20°	9919.5	7993.3	3283.8	923.1	636.8	578.7	544.6	526.5	524.6	528.7	532.6
22.5°	9779.4	7508.8	2348.8	710.7	574.6	524.6	482.6	466.5	466.5	470.5	474.6
25°	9609.2	6916.1	1605.9	602.8	518.6	466.5	426.4	412.5	416.5	426.4	428.5
27.5°	9396.9	6249.2	1091.4	516.5	450.5	408.5	378.5	368.5	378.5	392.5	396.4
30°	9214.8	5554.5	778.9	446.5	382.5	352.4	334.3	334.3	348.5	374.5	380.4
32.5°	9074.6	4881.7	600.6	394.4	332.5	306.3	296.4	306.3	328.4	354.4	360.4
35°	9056.5	4327.0	508.6	352.4	296.4	270.3	266.3	284.4	306.3	326.4	330.3
37.5°	9194.7	3814.5	458.6	318.4	264.3	240.2	236.3	258.4	280.4	304.3	310.4
40°	9456.9	3411.9	422.6	286.3	238.3	212.3	204.3	220.3	250.3	282.3	290.3
42.5°	9797.5	3079.6	382.5	254.3	212.3	176.2	166.1	184.2	216.2	250.3	260.2
45°	10121.8	2793.3	338.4	218.3	178.3	136.2	132.1	156.1	172.1	206.3	214.2
47.5°	10300.0	2540.9	300.4	178.3	138.2	110.1	110.1	116.2	132.1	172.1	180.2
50°	10239.9	2338.6	260.2	132.1	96.1	84.1	84.1	82.0	106.1	138.2	144.2
52.5°	10119.8	2222.5	224.2	102.0	66.0	60.0	54.1	60.0	74.1	88.2	90.1
55°	10101.8	2202.6	188.3	82.0	46.1	40.1	30.1	30.1	30.1	28.0	24.1
57.5°	10241.9	2234.7	158.2	66.0	34.0	26.1	16.0	0.0	0.0	0.0	0.0
60°	10386.2	2268.6	136.2	46.1	24.1	14.1	1.9	0.0	0.0	0.0	0.0
62.5°	10145.7	2192.6	114.2	28.0	18.1	6.0	0.0	0.0	0.0	0.0	0.0
65°	8912.4	1866.1	90.1	20.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6339.3	1249.5	60.0	11.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2893.4	522.6	38.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	618.8	162.1	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	126.1	118.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.1	186.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.1	134.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	20.0	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)