

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: P190927

Luminaire Tested: **GAN-AF-09-LED-U-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190927
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-09-LED-U-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 36003.8 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

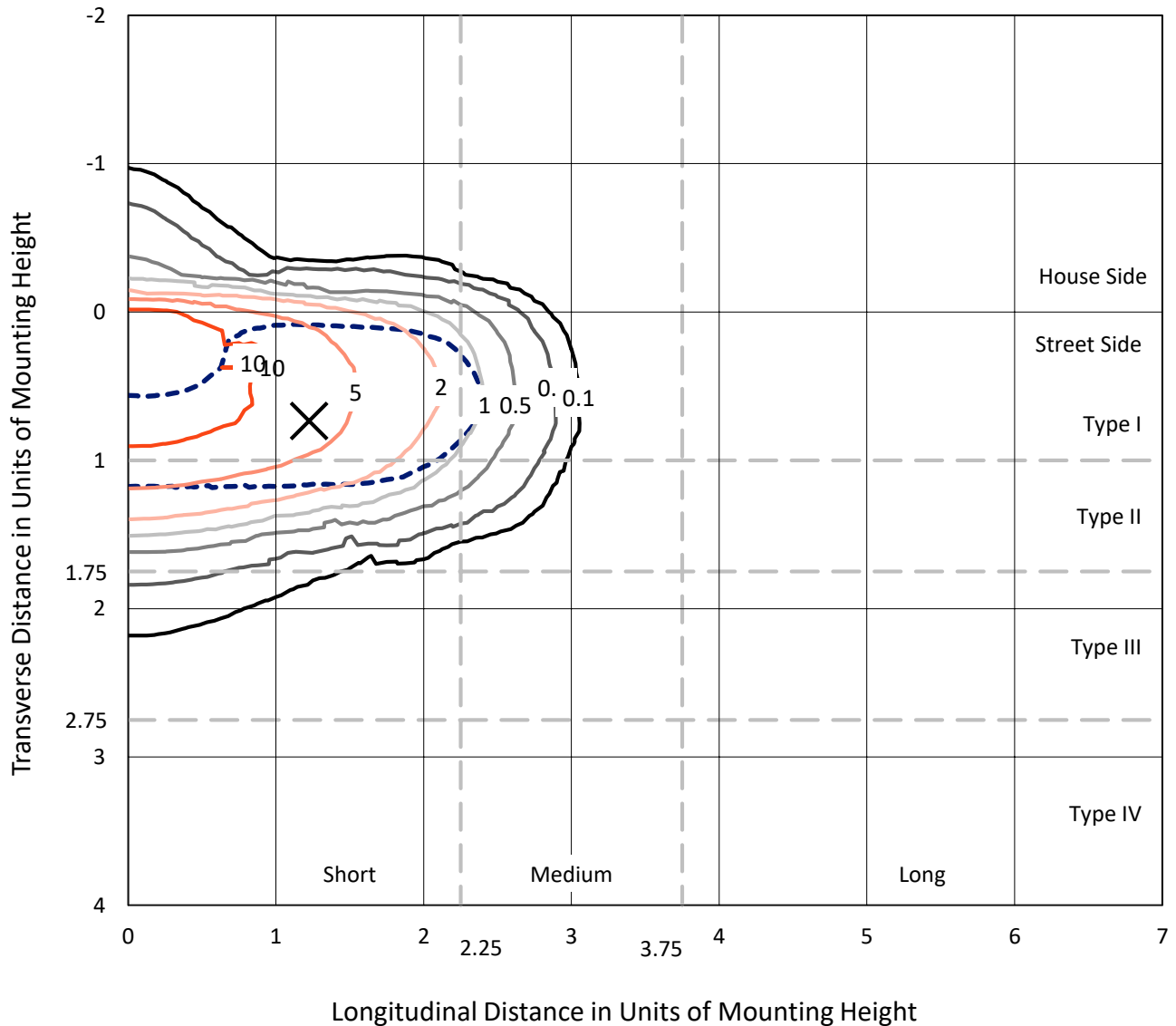
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

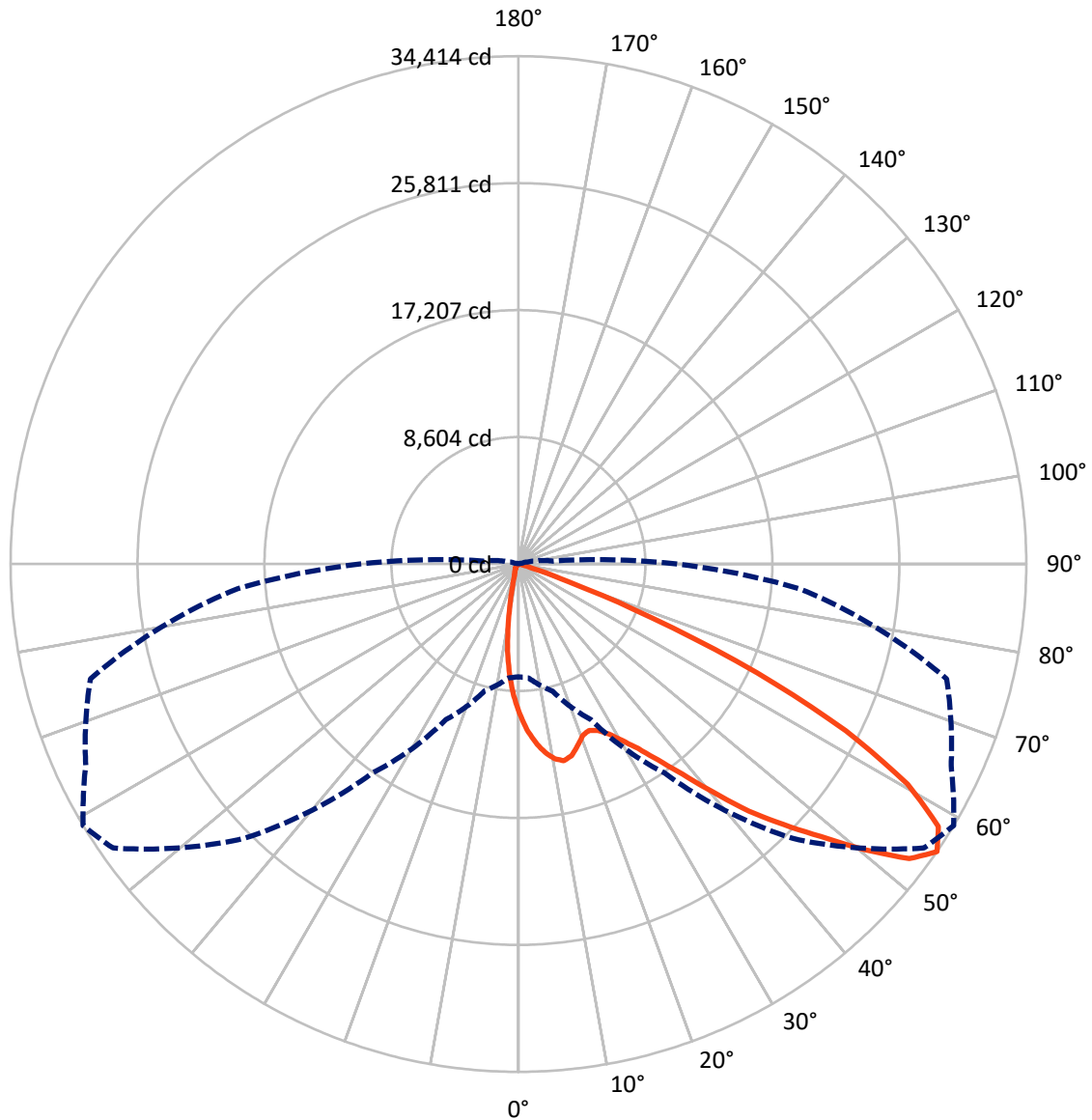
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14 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	2011.0	0.0	2011.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	33992.8	0.0	33992.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	36003.8	0.0	36003.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	848.9	2.4
10°-20°	2032.5	5.6
20°-30°	3458.6	9.6
30°-40°	5948.0	16.5
40°-50°	9183.0	25.5
50°-60°	9231.9	25.6
60°-70°	4734.2	13.1
70°-80°	513.0	1.4
80°-90°	53.6	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°	36003.8	100.0
0°-180°	36003.8	100.0

Coefficient of Utilization



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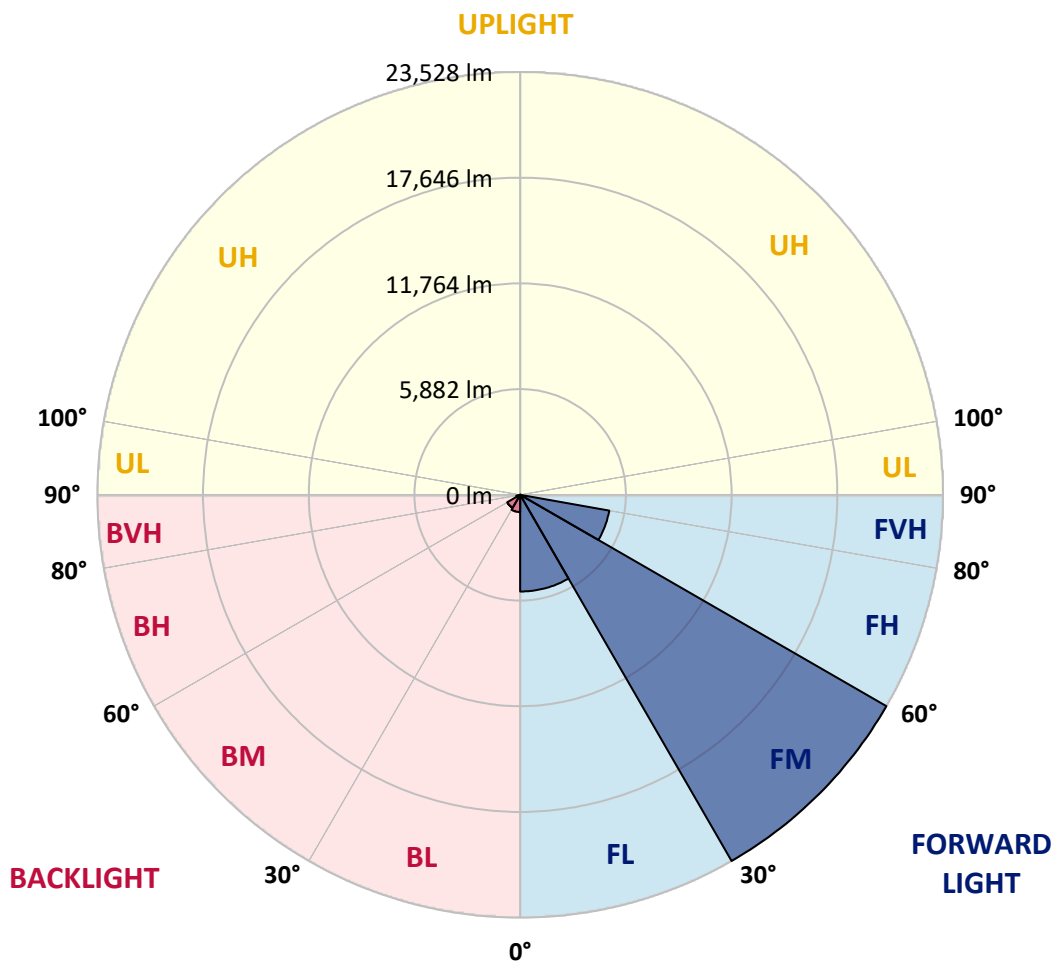
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5380.1	14.9			
FM	(30°-60°)	23528.3	65.3			
FH	(60°-80°)	5031.8	14.0			G3/7500
FVH	(80°-90°)	52.5	0.1			G1/100
BL	(0°-30°)	959.9	2.7	B2/1000		
BM	(30°-60°)	834.6	2.3	B1/1000		
BH	(60°-80°)	215.4	0.6	B1/500		G1/500
BVH	(80°-90°)	1.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9
2.5°	11992.0	11864.5	11826.2	11800.8	11683.8	11537.2	11337.6	11244.1	11052.8	10744.8	10366.5
5°	13090.4	13067.1	12982.1	12935.3	12810.0	12601.7	12283.0	12130.0	11826.2	11307.8	10630.0
7.5°	12610.2	12756.8	12873.7	13069.2	13315.6	13307.2	13039.5	12880.1	12540.1	11856.0	10923.2
10°	10755.3	10874.4	11065.6	11509.6	12414.7	13213.7	13528.1	13413.3	13141.4	12359.5	11205.8
12.5°	10392.1	10379.3	10413.2	10542.8	11016.7	12155.5	13445.3	13676.9	13621.6	12820.5	11473.5
15°	10585.4	10570.5	10566.3	10610.9	10725.6	11205.8	12822.7	13487.7	13914.8	13247.6	11700.8
17.5°	11127.1	11063.4	11029.5	10993.3	10959.3	11078.4	12074.8	12958.7	13959.4	13621.6	11890.0
20°	12055.7	11949.5	11824.1	11620.1	11428.9	11369.4	11760.4	12414.7	13800.1	13906.3	12013.2
22.5°	13222.2	13086.2	12869.4	12497.6	12108.8	11883.6	11915.4	12242.7	13562.1	14216.6	12070.5
25°	14533.1	14358.9	14070.0	13553.6	12982.1	12582.6	12374.4	12489.1	13453.7	14579.8	12136.4
27.5°	15937.6	15744.2	15366.1	14662.7	14014.6	13475.0	13050.1	13035.2	13638.6	15055.8	12242.7
30°	17329.3	17299.5	16806.6	16062.9	15204.5	14548.0	13936.1	13857.4	14154.9	15714.5	12453.0
32.5°	19186.3	18963.2	18359.7	17594.9	16604.7	15816.5	15091.9	14909.2	14947.5	16481.5	12778.1
35°	21527.7	21283.3	20433.4	19377.5	18270.5	17339.8	16538.9	16290.3	16196.8	17737.1	13326.3
37.5°	23040.5	23036.2	22503.0	21427.9	20240.1	19213.9	18342.7	18051.6	17862.6	19254.3	14176.2
40°	23080.8	23180.8	23250.9	23240.2	22394.5	21449.1	20675.7	20316.6	19876.8	21281.3	15274.6
42.5°	21842.1	22099.2	22717.6	23767.1	24268.6	23892.6	23240.2	22887.5	22233.1	23450.5	16613.2
45°	20167.9	20346.4	21427.9	23361.3	25284.2	26314.7	25817.5	25186.5	24323.8	25713.4	17813.7
47.5°	19417.9	19449.8	20148.8	22271.4	25360.7	28299.2	28600.9	27574.7	26223.3	27536.4	18752.8
50°	17176.3	17233.7	18198.3	20382.5	24464.1	29236.2	31397.0	30423.9	28294.9	28940.9	19094.9
52.5°	12946.0	13026.7	14250.5	17278.3	21999.4	28836.8	33398.5	33162.7	30564.1	29627.1	19114.0
55°	7638.4	7744.7	8913.2	11630.7	17303.7	26295.6	33547.3	34414.1	32355.3	30033.0	19084.3
57.5°	3567.4	3641.8	4311.0	5991.7	10761.7	20782.0	31307.8	33555.8	33343.3	30247.5	19294.6
60°	1895.2	1916.5	2078.0	2594.3	4863.5	13177.6	26937.3	30300.7	32442.4	30545.0	19551.7
62.5°	1449.1	1455.5	1447.0	1508.5	2044.0	5849.3	20361.2	24910.3	28815.5	30321.9	19267.0
65°	1255.7	1266.3	1206.9	1191.9	1310.9	2086.5	12096.1	17756.3	22643.2	27311.3	17327.2
67.5°	1126.1	1130.4	1058.1	996.5	1017.7	1128.2	4772.2	9720.6	14987.8	20019.1	12559.3
70°	1036.9	1032.6	954.0	856.3	828.7	771.3	1517.0	3563.1	7162.4	10152.0	5840.8
72.5°	917.9	920.0	881.8	754.3	688.4	539.7	703.3	1039.0	2137.5	2766.4	1368.3
75°	813.8	803.1	756.4	675.7	567.3	354.9	348.4	463.2	658.7	654.4	295.3
77.5°	588.5	578.0	592.8	554.5	435.6	229.4	174.2	223.1	267.7	259.2	82.9
80°	431.3	424.9	382.5	461.0	384.5	157.2	108.3	119.0	138.1	116.8	25.5
82.5°	295.3	293.2	269.9	254.9	218.8	95.6	68.0	74.4	89.2	65.9	12.8
85°	46.7	53.1	195.5	155.1	129.6	42.5	46.7	50.9	59.5	36.1	4.3
87.5°	0.0	0.0	91.3	80.7	25.5	17.0	27.6	29.8	29.8	19.1	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°	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9	10134.9
2.5°	10173.1	9960.7	9567.7	9161.9	8785.7	8337.5	8029.3	7797.7	7530.0	7457.8	7615.1
5°	10243.3	9841.7	8996.0	8076.1	7211.3	6253.1	5520.0	4940.0	4415.2	4236.7	4398.2
7.5°	10353.8	9756.7	8377.8	6862.9	5358.5	3862.8	2838.6	2165.1	1735.9	1608.4	1676.4
10°	10464.3	9633.5	7661.8	5426.5	3369.8	1880.4	1223.9	977.3	886.0	866.8	877.5
12.5°	10555.6	9467.8	6788.5	3858.5	1801.7	1007.1	801.0	760.7	747.9	747.9	752.2
15°	10610.9	9217.1	5753.8	2454.1	1036.9	760.7	699.1	686.3	686.3	688.4	692.6
17.5°	10604.5	8898.3	4621.3	1485.2	775.5	673.5	637.4	626.8	624.7	628.9	631.1
20°	10525.9	8481.9	3484.6	979.5	675.7	614.1	578.0	558.8	556.7	560.9	565.2
22.5°	10377.1	7967.8	2492.3	754.3	609.8	556.7	512.1	495.1	495.1	499.3	503.6
25°	10196.6	7338.8	1704.0	639.5	550.3	495.1	452.6	437.7	441.9	452.6	454.7
27.5°	9971.3	6631.3	1158.0	548.2	478.0	433.4	401.6	391.0	401.6	416.4	420.7
30°	9778.0	5893.9	826.5	473.8	405.8	374.0	354.9	354.9	369.7	397.3	403.7
32.5°	9629.2	5180.1	637.4	418.6	352.7	325.1	314.5	325.1	348.4	376.0	382.5
35°	9610.1	4591.5	539.7	374.0	314.5	286.8	282.5	301.7	325.1	346.4	350.6
37.5°	9756.7	4047.6	486.5	337.9	280.5	254.9	250.7	274.0	297.5	322.9	329.3
40°	10035.0	3620.5	448.4	303.8	252.9	225.3	216.8	233.7	265.6	299.6	308.1
42.5°	10396.2	3267.8	405.8	269.9	225.3	187.0	176.4	195.5	229.4	265.6	276.2
45°	10740.5	2964.0	359.1	231.6	189.1	144.4	140.2	165.7	182.7	218.8	227.3
47.5°	10929.6	2696.3	318.8	189.1	146.6	116.8	116.8	123.3	140.2	182.7	191.2
50°	10865.9	2481.7	276.2	140.2	102.0	89.2	89.2	87.2	112.6	146.6	152.9
52.5°	10738.3	2358.4	237.9	108.3	70.1	63.7	57.4	63.7	78.7	93.5	95.6
55°	10719.2	2337.2	199.7	87.2	48.9	42.5	31.9	31.9	31.9	29.8	25.5
57.5°	10867.9	2371.2	167.9	70.1	36.1	27.6	17.0	0.0	0.0	0.0	0.0
60°	11021.0	2407.3	144.4	48.9	25.5	14.8	2.1	0.0	0.0	0.0	0.0
62.5°	10765.9	2326.6	121.1	29.8	19.1	6.3	0.0	0.0	0.0	0.0	0.0
65°	9457.2	1980.2	95.6	21.3	12.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6726.9	1325.8	63.7	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	3070.2	554.5	40.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	656.5	172.1	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	133.9	125.3	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.5	197.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.5	142.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	21.3	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)