

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: P321252

Luminaire Tested: **GAN-SA8C-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41670 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

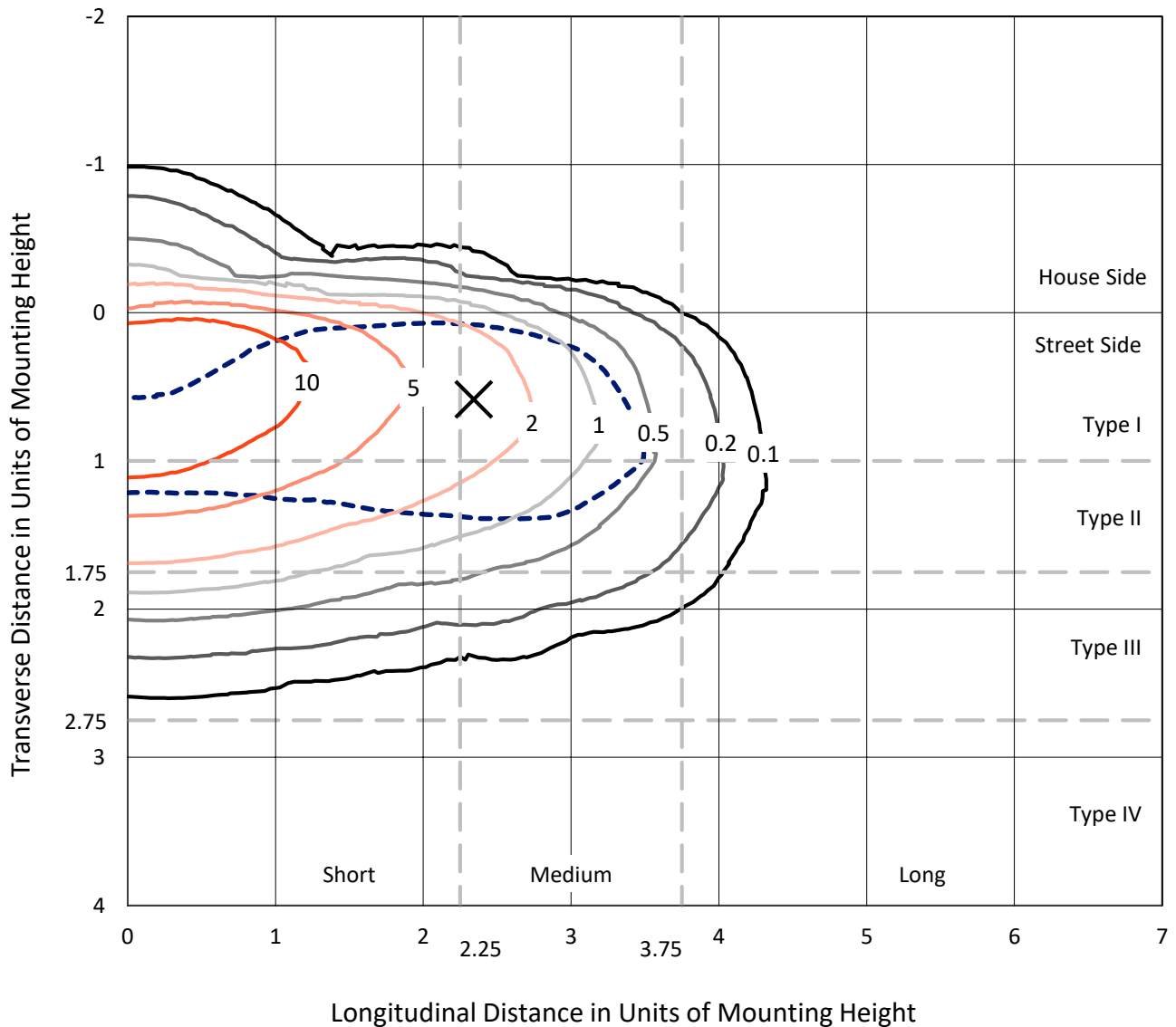
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

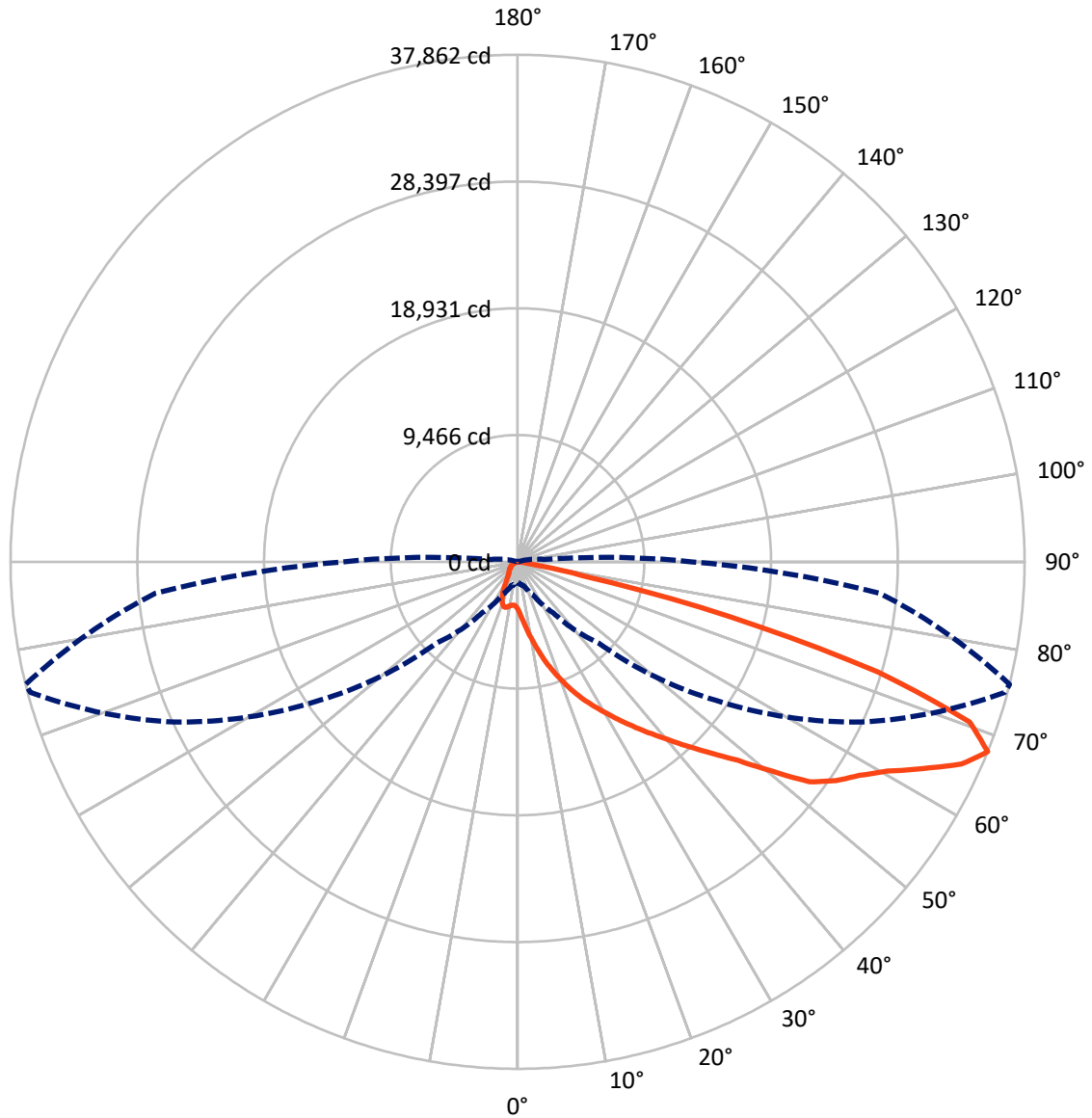
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.2	0.0	2069.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	39600.8	0.0	39600.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	41670.0	0.0	41670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	1.1
10°-20°	1742.4	4.2
20°-30°	3545.3	8.5
30°-40°	6153.5	14.8
40°-50°	8694.1	20.9
50°-60°	9859.5	23.7
60°-70°	8177.5	19.6
70°-80°	2962.1	7.1
80°-90°	96.1	0.2
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°	41670.0	100.0
0°-180°	41670.0	100.0

Coefficient of Utilization

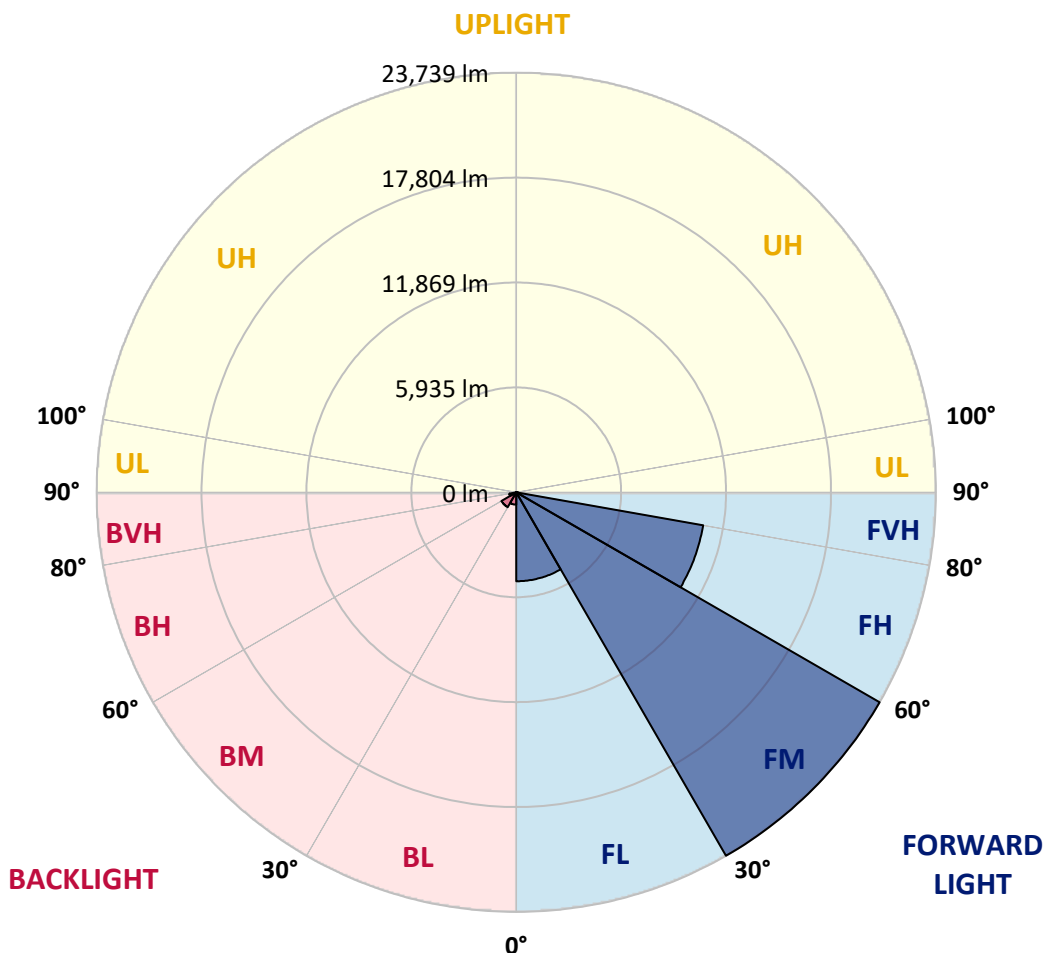


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5029.4	12.1			
FM (30°-60°)	23738.6	57.0			
FH (60°-80°)	10739.8	25.8			G4/12000
FVH (80°-90°)	93.0	0.2			G1/100
BL (0°-30°)	697.8	1.7	B2/1000		
BM (30°-60°)	968.5	2.3	B1/1000		
BH (60°-80°)	399.9	1.0	B1/500		G1/500
BVH (80°-90°)	3.0	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8
2.5°	5276.7	5158.0	5185.4	5108.7	4969.9	4685.1	4442.3	4212.2	3943.8	3934.7	3713.8
5°	7115.3	7014.9	7002.1	6846.9	6594.9	6111.1	5640.0	5103.2	4504.3	4460.5	3991.3
7.5°	8784.1	8703.8	8674.6	8490.1	8020.9	7549.8	6936.4	6147.6	5210.9	5130.6	4365.6
10°	10065.8	10027.5	10034.8	9903.3	9501.7	9063.5	8258.3	7252.2	6012.5	5888.3	4814.7
12.5°	11037.2	11046.3	11112.1	11031.7	10807.1	10482.1	9622.2	8429.9	6899.8	6730.0	5327.8
15°	11751.1	11796.7	11917.2	12017.7	12001.2	11720.1	10931.3	9625.8	7842.0	7653.9	5899.3
17.5°	12213.0	12264.2	12439.4	12662.2	12866.7	12801.0	12194.8	10779.7	8795.1	8577.8	6510.9
20°	12618.4	12678.6	12866.7	13160.6	13542.2	13624.4	13226.4	11899.0	9746.3	9481.6	7142.7
22.5°	13496.6	13494.8	13609.8	13781.4	14144.8	14356.6	14104.6	12937.9	10686.6	10410.9	7787.2
25°	15085.1	15024.8	14984.7	14849.5	14929.9	15061.3	14920.8	13909.2	11632.4	11353.1	8440.9
27.5°	16973.0	17009.5	16684.5	16321.2	16040.0	15904.9	15674.8	14809.4	12541.7	12234.9	9079.9
30°	18965.0	18975.9	18592.5	18128.7	17509.8	16996.7	16598.7	15669.3	13476.5	13142.4	9700.7
32.5°	20761.6	20690.4	20310.6	19678.9	18897.4	18320.5	17493.4	16629.7	14466.1	14142.9	10390.8
35°	22185.8	22101.8	21639.8	21064.7	20254.0	19673.4	18678.3	17588.3	15506.8	15191.0	11082.8
37.5°	23226.5	23127.9	22653.2	22061.6	21362.3	21024.5	20053.2	18630.9	16642.5	16302.9	11811.3
40°	23588.0	23502.2	23204.6	22771.9	22209.5	22132.8	21512.0	19830.4	17878.6	17517.1	12636.6
42.5°	23372.6	23288.6	23182.7	23036.6	22802.9	22875.9	22888.7	21198.0	19251.6	18895.6	13547.7
45°	22518.1	22443.2	22552.8	22766.4	23056.7	23418.2	24144.9	22667.8	20785.3	20405.6	14601.2
47.5°	21260.1	21205.3	21508.4	22041.5	22890.5	23887.4	25293.3	24212.4	22507.1	22154.7	15915.8
50°	19470.7	19461.6	20067.8	21041.0	22346.4	24113.8	26480.1	25968.9	24899.0	24528.3	17743.5
52.5°	16684.5	16702.8	17895.0	19452.5	21391.5	23960.5	27243.3	28225.6	27681.5	27296.3	19326.5
55°	14031.6	14141.1	14986.5	17232.3	19927.2	23390.8	27506.3	29279.1	29217.1	28851.9	20206.6
57.5°	11433.4	11632.4	12446.7	14544.6	17789.1	22078.0	27362.0	29735.6	30360.0	30080.7	21367.8
60°	8618.0	8709.2	9647.7	11608.7	15044.9	19682.5	26315.8	29983.9	31923.0	31729.4	23053.0
62.5°	5483.0	5711.2	6543.8	8435.4	11714.6	16355.9	24552.0	29980.3	33878.4	33984.3	25227.6
65°	2888.5	3155.0	3596.9	5227.4	8050.1	12640.3	21899.1	29699.1	36277.6	36425.5	26927.5
67.5°	1557.4	1634.1	1867.8	2713.2	4668.7	8563.2	18000.9	28311.4	37667.0	37862.4	27164.8
70°	1139.3	1181.3	1269.0	1500.8	2349.9	4973.6	13135.1	25165.5	35875.9	35802.9	24135.8
72.5°	874.6	940.3	1006.0	1099.2	1351.1	2654.8	8177.9	19706.3	28625.5	28143.5	18041.1
75°	690.2	701.1	794.2	878.2	1013.3	1511.8	3631.6	11477.2	17471.4	16330.3	9355.6
77.5°	551.4	558.7	613.5	686.5	814.3	993.3	1124.7	4515.3	5577.9	4977.2	2030.3
80°	326.8	345.1	456.5	529.5	675.6	626.3	410.8	980.5	870.9	788.8	341.4
82.5°	182.6	197.2	257.4	418.1	471.1	299.4	204.5	264.7	204.5	199.0	96.8
85°	0.0	9.1	166.2	259.3	191.7	65.7	85.8	87.6	60.3	56.6	38.3
87.5°	0.0	0.0	51.1	49.3	7.3	11.0	20.1	29.2	23.7	23.7	20.1
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°	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8	3534.8
2.5°	3604.2	3505.6	3319.4	3136.8	2983.4	2857.4	2744.2	2698.6	2662.1	2656.6	2627.4
5°	3764.9	3565.9	3209.8	2917.7	2722.3	2583.6	2464.9	2391.8	2335.2	2313.3	2293.3
7.5°	4007.7	3706.5	3195.2	2859.3	2625.6	2391.8	2172.7	1935.4	1787.5	1730.9	1698.0
10°	4303.5	3892.7	3250.0	2842.8	2433.8	1940.9	1577.5	1276.3	1153.9	1113.8	1102.8
12.5°	4648.6	4124.6	3344.9	2740.6	2024.9	1378.5	1088.2	986.0	958.6	945.8	945.8
15°	5044.8	4378.4	3412.5	2444.8	1497.2	1042.6	942.1	894.7	865.4	849.0	850.8
17.5°	5450.1	4626.7	3379.6	2015.7	1104.6	927.5	852.7	801.5	761.4	744.9	741.3
20°	5859.1	4856.7	3197.0	1500.8	934.8	841.7	757.7	701.1	661.0	644.5	640.9
22.5°	6282.7	5052.1	2875.7	1101.0	839.9	746.8	664.6	608.0	569.7	555.1	547.8
25°	6695.3	5210.9	2426.5	891.0	750.4	657.3	578.8	525.8	491.2	476.5	474.7
27.5°	7080.6	5311.4	1906.2	786.9	671.9	577.0	505.8	458.3	429.1	418.1	416.3
30°	7427.5	5320.5	1409.5	710.3	602.5	507.6	441.9	399.9	374.3	363.3	359.7
32.5°	7778.1	5243.8	1026.1	640.9	538.6	447.3	383.4	350.6	332.3	323.2	323.2
35°	8108.5	5066.7	799.7	580.6	476.5	388.9	337.8	314.0	303.1	294.0	294.0
37.5°	8431.7	4812.9	679.2	527.7	418.1	339.6	297.6	283.0	273.9	264.7	264.7
40°	8760.4	4493.4	617.1	478.4	370.6	301.3	264.7	252.0	242.8	235.5	233.7
42.5°	9163.9	4124.6	577.0	432.7	328.7	266.6	233.7	219.1	211.8	204.5	200.8
45°	9631.3	3806.9	544.1	387.1	294.0	237.4	202.7	188.1	177.1	168.0	166.2
47.5°	10305.0	3576.8	500.3	337.8	261.1	206.3	175.3	158.8	142.4	133.3	131.5
50°	11165.0	3386.9	443.7	294.0	228.2	175.3	146.1	126.0	111.4	102.2	102.2
52.5°	11592.2	3138.6	392.6	255.6	191.7	147.9	118.7	94.9	87.6	78.5	78.5
55°	11763.9	2948.7	341.4	217.3	158.8	122.3	93.1	73.0	67.6	62.1	60.3
57.5°	12245.9	2894.0	297.6	184.4	131.5	96.8	71.2	54.8	51.1	43.8	43.8
60°	13021.9	2921.3	257.4	157.0	105.9	74.9	52.9	42.0	38.3	31.0	31.0
62.5°	13859.9	2886.7	217.3	135.1	82.2	54.8	36.5	31.0	31.0	18.3	16.4
65°	14020.6	2570.8	186.2	111.4	63.9	40.2	23.7	20.1	27.4	3.7	0.0
67.5°	13012.7	1993.8	160.7	85.8	47.5	31.0	18.3	9.1	23.7	0.0	0.0
70°	10405.5	1267.1	129.6	62.1	36.5	25.6	14.6	3.7	18.3	0.0	0.0
72.5°	7358.1	735.8	102.2	43.8	31.0	20.1	11.0	0.0	11.0	0.0	0.0
75°	3721.1	392.6	63.9	32.9	23.7	14.6	7.3	0.0	1.8	0.0	0.0
77.5°	805.2	182.6	40.2	23.7	16.4	9.1	3.7	0.0	0.0	0.0	0.0
80°	175.3	80.3	25.6	14.6	9.1	5.5	0.0	0.0	0.0	0.0	0.0
82.5°	63.9	42.0	12.8	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.7	21.9	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	7.3	1.8	1.8	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)