

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: P399428

Luminaire Tested: **ARCH-L-PA3-140-740-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-740-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15531 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

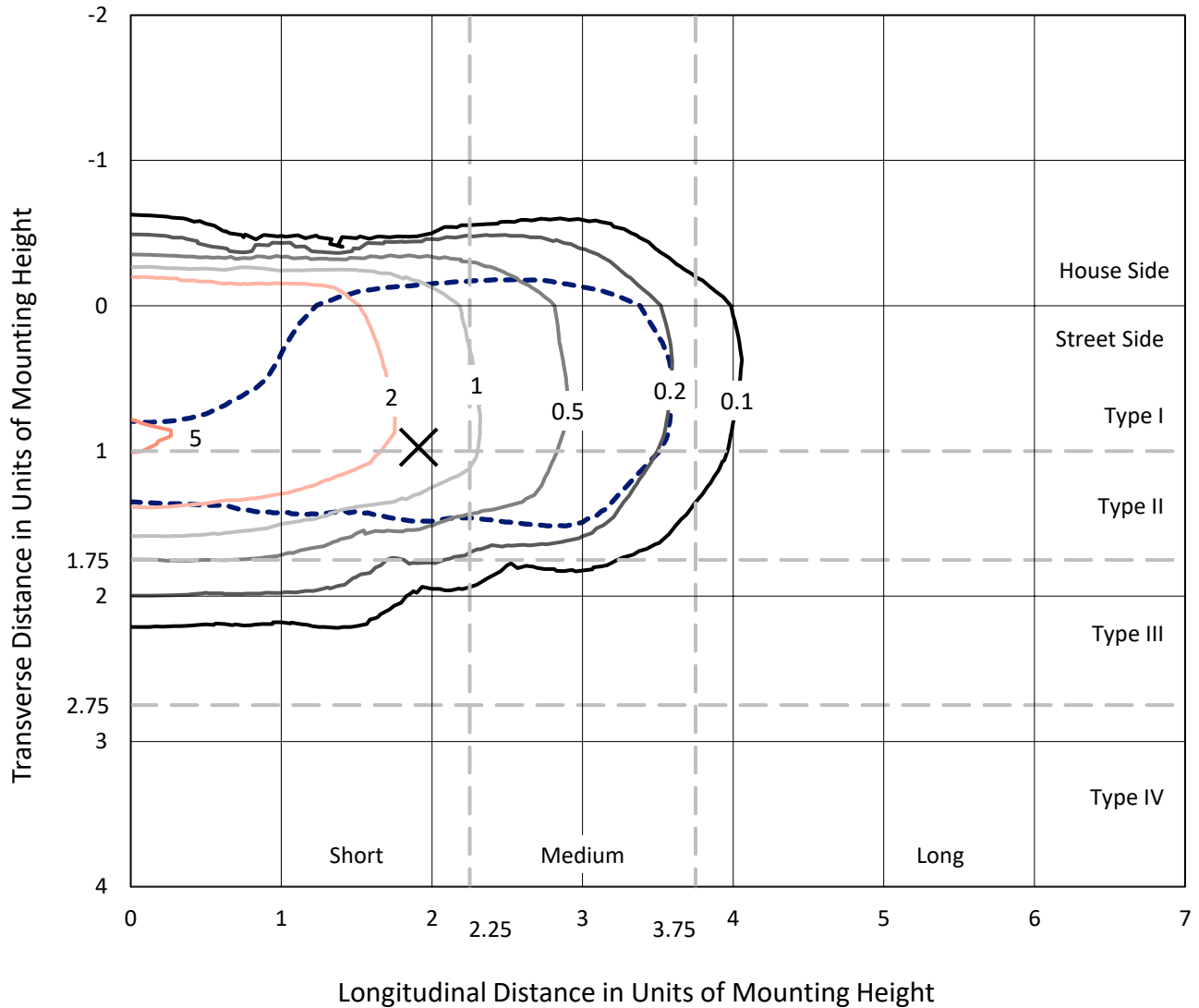
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

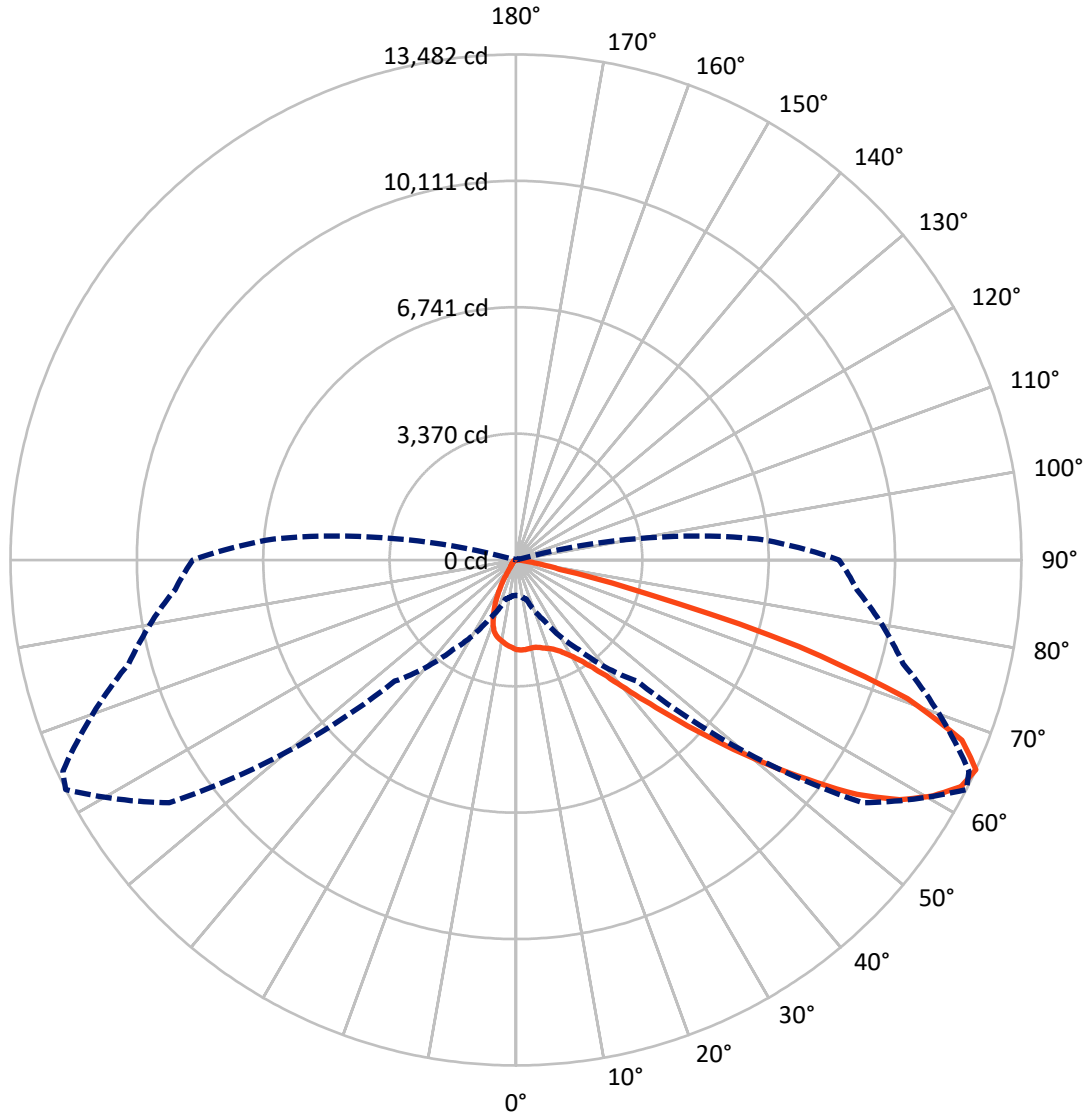
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1998.8	0.0	1998.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	13532.2	0.0	13532.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	15531.0	0.0	15531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.4
10°-20°	538.6	3.5
20°-30°	798.3	5.1
30°-40°	1482.1	9.5
40°-50°	3139.8	20.2
50°-60°	4341.6	28.0
60°-70°	3475.6	22.4
70°-80°	1444.0	9.3
80°-90°	92.7	0.6
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°	15531.0	100.0
0°-180°	15531.0	100.0

Coefficient of Utilization



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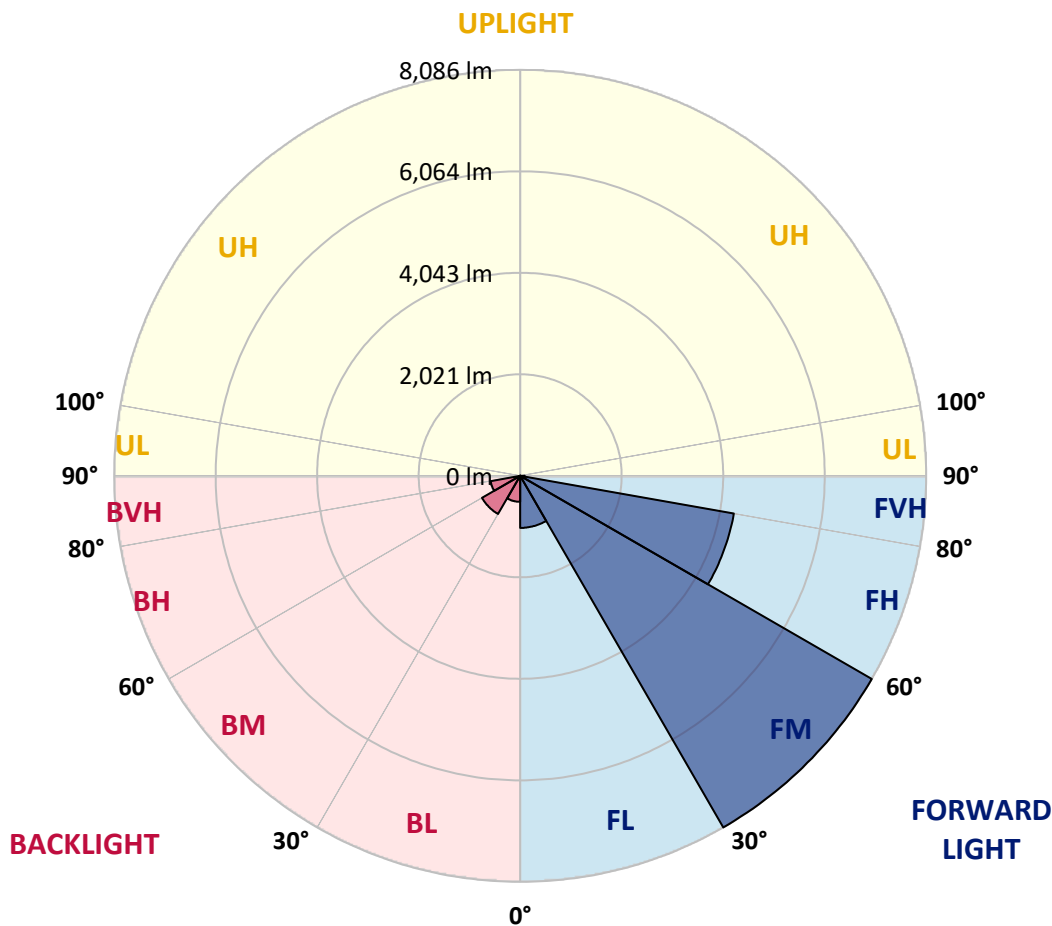
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1037.1	6.7			
FM (30°-60°)	8085.5	52.1			
FH (60°-80°)	4321.1	27.8			G2/5000
FVH (80°-90°)	88.5	0.6			G1/100
BL (0°-30°)	518.0	3.3	B2/1000		
BM (30°-60°)	878.0	5.7	B1/1000		
BH (60°-80°)	598.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	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°	63°	65°	75°	85°
0°	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6
2.5°	2433.6	2427.7	2421.9	2418.9	2418.9	2416.0	2404.3	2401.4	2395.5	2389.6	2383.8
5°	2410.2	2401.4	2398.4	2401.4	2404.3	2410.2	2404.3	2404.3	2398.4	2392.6	2380.8
7.5°	2351.5	2345.6	2348.6	2357.4	2360.3	2380.8	2383.8	2392.6	2392.6	2386.7	2377.9
10°	2281.1	2278.2	2278.2	2292.9	2307.5	2336.8	2357.4	2380.8	2383.8	2383.8	2369.1
12.5°	2228.4	2225.4	2234.2	2251.8	2281.1	2319.3	2354.4	2389.6	2395.5	2398.4	2375.0
15°	2196.1	2196.1	2207.8	2243.0	2284.1	2336.8	2377.9	2424.8	2430.7	2427.7	2395.5
17.5°	2166.8	2169.7	2193.2	2251.8	2298.7	2369.1	2418.9	2471.7	2474.7	2471.7	2418.9
20°	2155.1	2160.9	2196.1	2272.3	2325.1	2404.3	2468.8	2521.6	2524.5	2512.8	2442.4
22.5°	2187.3	2190.2	2234.2	2316.3	2366.2	2454.1	2536.2	2586.1	2589.0	2571.4	2477.6
25°	2298.7	2298.7	2336.8	2407.2	2451.2	2539.2	2627.1	2685.8	2685.8	2665.2	2556.8
27.5°	2559.7	2536.2	2527.4	2548.0	2562.6	2656.4	2750.3	2823.6	2820.6	2791.3	2659.4
30°	3064.0	3005.4	2911.5	2806.0	2753.2	2817.7	2905.7	2999.5	2996.6	2949.6	2785.5
32.5°	3911.4	3826.3	3603.5	3325.0	3099.2	3025.9	3108.0	3210.6	3213.5	3157.8	2987.8
35°	5098.8	4964.0	4565.2	4178.2	3662.1	3383.6	3407.1	3518.5	3553.7	3524.3	3327.9
37.5°	6242.4	6119.2	5738.0	5201.5	4500.7	3931.9	3832.2	3929.0	3970.0	3970.0	3761.8
40°	7394.6	7251.0	6913.8	6374.3	5635.4	4788.0	4430.3	4509.5	4553.5	4562.3	4289.6
42.5°	8318.2	8224.4	7966.4	7547.1	6855.2	6289.3	5292.4	5248.4	5289.4	5257.2	4902.4
45°	8957.4	8884.1	8705.3	8546.9	8209.8	7925.4	6444.7	6148.5	6174.9	6063.5	5591.4
47.5°	9089.4	9007.3	8969.2	9189.1	9429.5	9499.9	7860.8	7218.7	7192.3	6946.0	6306.9
50°	8514.7	8523.5	8664.2	9291.7	10294.5	10927.8	9502.8	8426.7	8330.0	7781.7	6972.4
52.5°	7274.4	7415.2	7770.0	8787.4	10558.3	11965.7	11144.8	9708.0	9558.5	8593.9	7470.9
55°	5691.1	5872.9	6456.4	7626.3	10007.1	12429.0	12528.7	11039.2	10699.1	9203.7	7857.9
57.5°	4231.0	4286.7	4966.9	6034.2	8702.3	11974.5	13238.2	12065.4	11628.5	9690.4	8242.0
60°	2635.9	2671.1	3389.5	4594.5	6591.3	10294.5	13238.2	12772.0	12355.7	10127.3	8593.9
62.5°	1639.0	1650.7	1920.5	3149.0	4480.2	7635.1	12689.9	13320.3	12986.1	10441.1	8895.9
65°	944.1	955.9	1081.9	1779.8	2914.5	4571.1	11288.4	13481.6	13332.1	10690.3	9130.4
67.5°	689.0	694.9	744.7	999.8	1905.8	2348.6	8479.5	12833.6	13021.3	10813.4	9124.6
70°	598.1	606.9	671.4	779.9	1375.1	1442.6	4316.0	11083.2	11608.0	10637.5	8851.9
72.5°	460.3	472.1	568.8	733.0	1008.6	1037.9	1562.8	7887.2	8681.8	9538.0	8104.2
75°	316.7	328.4	425.1	604.0	832.7	777.0	859.1	3629.9	4579.9	6397.7	6169.0
77.5°	202.3	205.2	266.8	439.8	718.4	551.2	589.3	1184.6	1662.5	2893.9	2911.5
80°	134.9	137.8	164.2	284.4	492.6	510.2	363.6	548.3	601.1	844.4	586.4
82.5°	82.1	82.1	111.4	178.9	299.1	422.2	237.5	287.3	307.9	325.5	152.5
85°	32.3	32.3	67.4	117.3	187.7	196.4	149.5	167.1	175.9	190.6	70.4
87.5°	8.8	8.8	38.1	64.5	82.1	90.9	90.9	82.1	88.0	108.5	35.2
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°	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6	2392.6
2.5°	2380.8	2372.0	2360.3	2348.6	2336.8	2328.1	2319.3	2319.3	2313.4	2304.6	2298.7
5°	2375.0	2360.3	2333.9	2313.4	2281.1	2257.7	2240.1	2225.4	2216.6	2196.1	2193.2
7.5°	2366.2	2348.6	2310.5	2269.4	2216.6	2175.6	2134.5	2105.2	2075.9	2052.4	2046.6
10°	2351.5	2331.0	2275.3	2216.6	2143.3	2067.1	1970.3	1858.9	1756.3	1697.7	1680.1
12.5°	2351.5	2325.1	2251.8	2172.7	2067.1	1879.4	1633.2	1386.9	1196.3	1111.2	1087.8
15°	2366.2	2331.0	2234.2	2125.7	1929.3	1548.1	1149.4	823.9	615.7	551.2	536.6
17.5°	2380.8	2331.0	2207.8	2061.2	1677.1	1123.0	653.8	433.9	366.5	351.8	351.8
20°	2386.7	2325.1	2172.7	1941.0	1340.0	697.8	390.0	325.5	299.1	290.3	290.3
22.5°	2410.2	2328.1	2146.3	1768.0	973.4	410.5	307.9	272.7	246.3	237.5	237.5
25°	2468.8	2363.2	2152.1	1548.1	624.5	310.8	261.0	225.8	199.4	187.7	187.7
27.5°	2562.6	2442.4	2184.4	1293.0	392.9	266.8	219.9	181.8	161.3	149.5	149.5
30°	2668.2	2530.4	2199.0	999.8	293.2	225.8	178.9	143.7	129.0	120.2	117.3
32.5°	2852.9	2682.8	2187.3	686.1	240.4	190.6	143.7	114.4	102.6	99.7	99.7
35°	3149.0	2949.6	2163.9	431.0	199.4	152.5	114.4	93.8	85.0	82.1	79.2
37.5°	3550.7	3339.6	2093.5	284.4	164.2	120.2	93.8	79.2	70.4	67.4	67.4
40°	4040.4	3785.3	1958.6	217.0	140.7	96.8	79.2	67.4	61.6	58.6	58.6
42.5°	4600.4	4280.8	1744.6	187.7	117.3	82.1	67.4	55.7	52.8	49.8	49.8
45°	5213.2	4799.8	1448.4	167.1	99.7	67.4	55.7	49.8	44.0	44.0	41.0
47.5°	5864.1	5321.7	1114.2	146.6	85.0	58.6	49.8	41.0	38.1	35.2	35.2
50°	6491.6	5787.9	782.9	126.1	70.4	49.8	41.0	35.2	32.3	29.3	29.3
52.5°	6934.3	6069.4	554.2	108.5	58.6	44.0	32.3	26.4	23.5	23.5	23.5
55°	7289.1	6245.3	387.0	90.9	49.8	38.1	26.4	20.5	20.5	17.6	17.6
57.5°	7623.3	6359.6	284.4	76.2	41.0	29.3	20.5	14.7	14.7	11.7	11.7
60°	7969.3	6421.2	217.0	61.6	35.2	23.5	14.7	11.7	8.8	8.8	8.8
62.5°	8318.2	6459.3	167.1	49.8	29.3	17.6	11.7	8.8	5.9	2.9	2.9
65°	8623.2	6471.1	129.0	38.1	23.5	11.7	8.8	2.9	0.0	0.0	0.0
67.5°	8714.1	6336.2	99.7	29.3	17.6	8.8	5.9	0.0	0.0	0.0	0.0
70°	8467.8	5978.5	76.2	23.5	14.7	5.9	2.9	0.0	0.0	0.0	0.0
72.5°	7514.9	5013.8	58.6	14.7	11.7	5.9	2.9	0.0	0.0	0.0	0.0
75°	5377.4	2674.0	41.0	11.7	8.8	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	2474.7	1035.0	29.3	8.8	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	483.8	258.0	11.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	111.4	44.0	5.9	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.1	14.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	5.9	2.9	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)