

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: P400290

Luminaire Tested: **ARCH-L-PA3-260-740-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-740-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27413 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

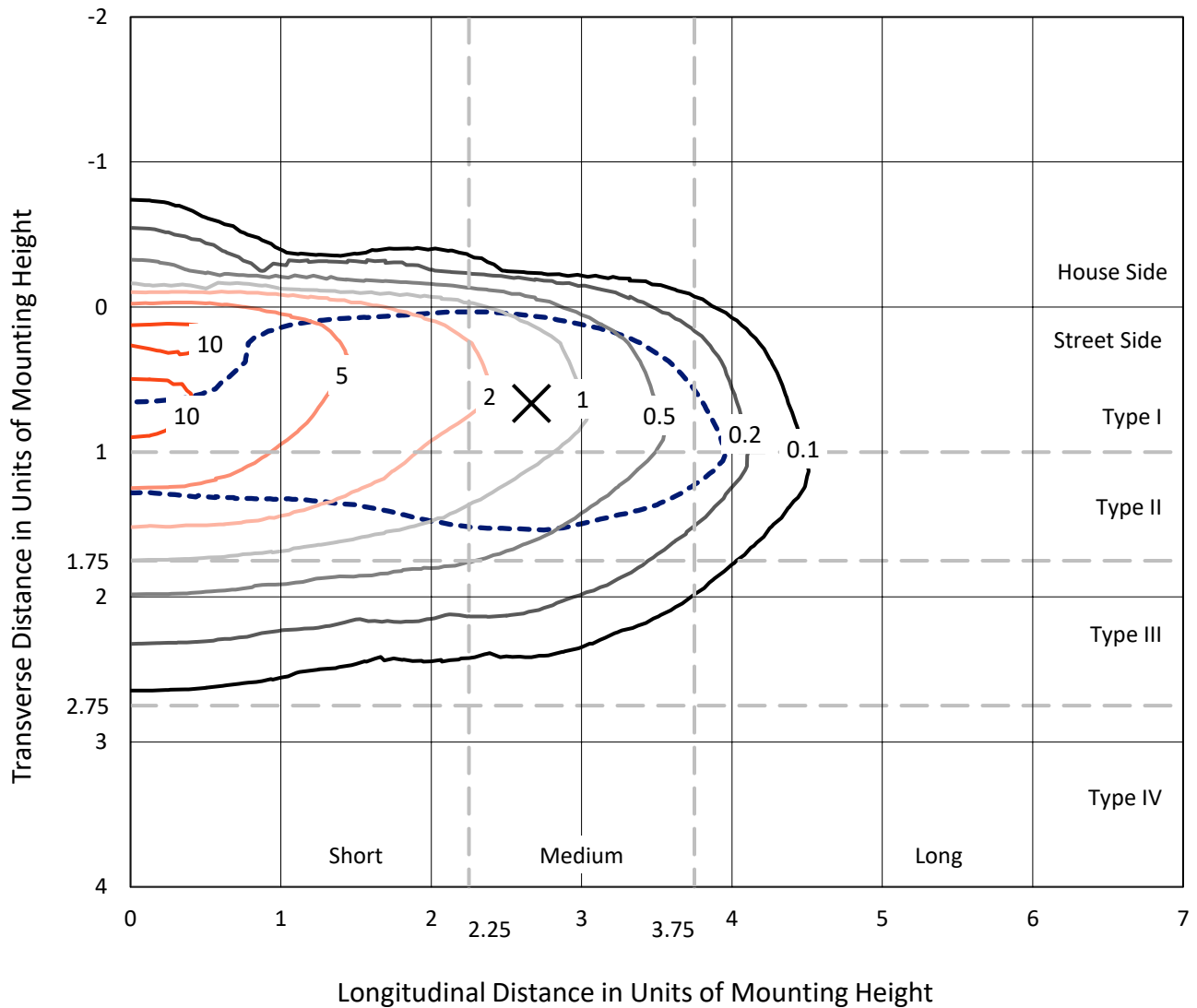
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

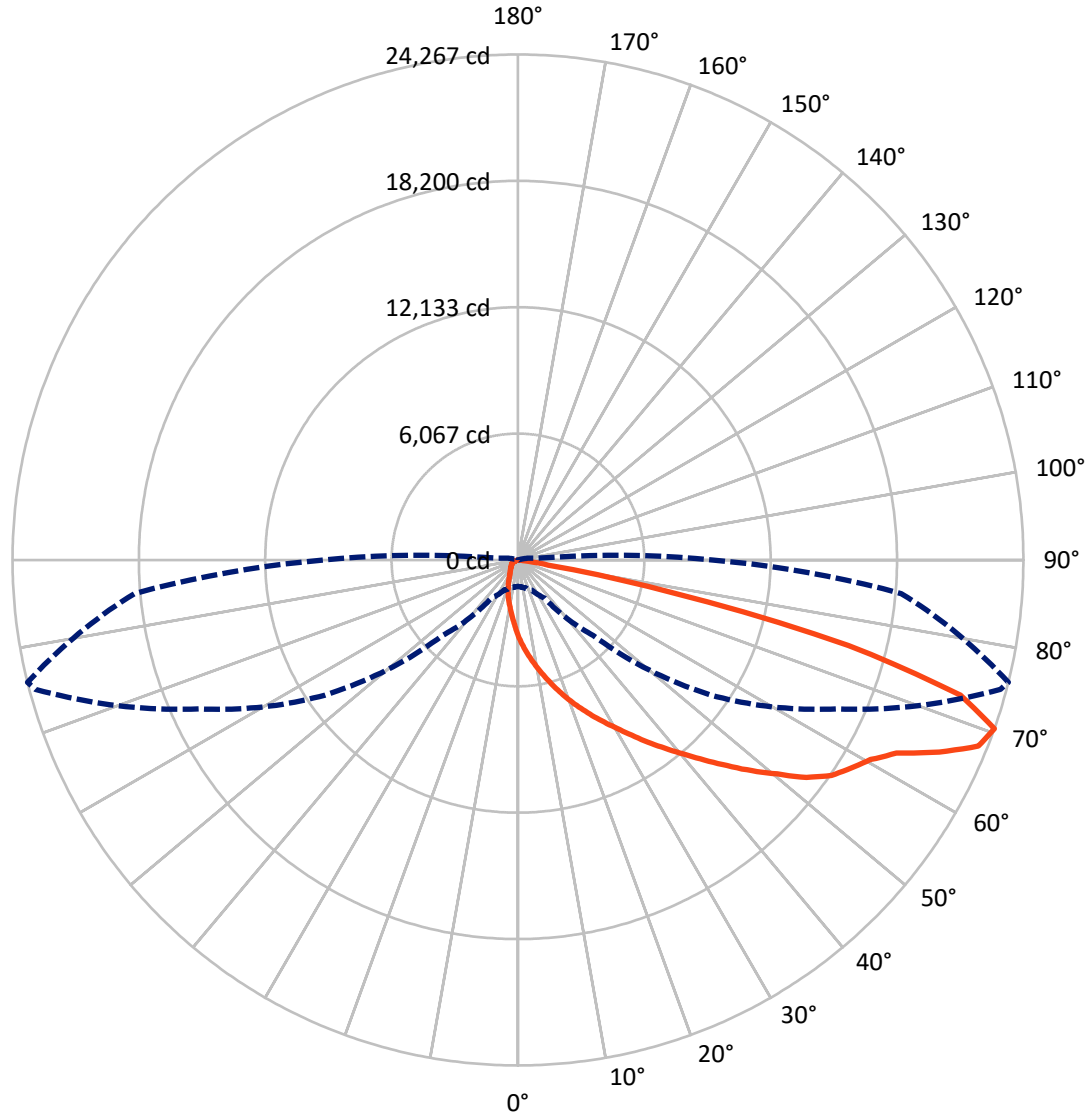
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1292.9	0.0	1292.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	26120.1	0.0	26120.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	27413.0	0.0	27413.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.3
10°-20°	1115.7	4.1
20°-30°	2077.8	7.6
30°-40°	3675.2	13.4
40°-50°	5620.3	20.5
50°-60°	6372.1	23.2
60°-70°	5462.4	19.9
70°-80°	2645.7	9.7
80°-90°	98.1	0.4
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°	27413.0	100.0
0°-180°	27413.0	100.0

Coefficient of Utilization

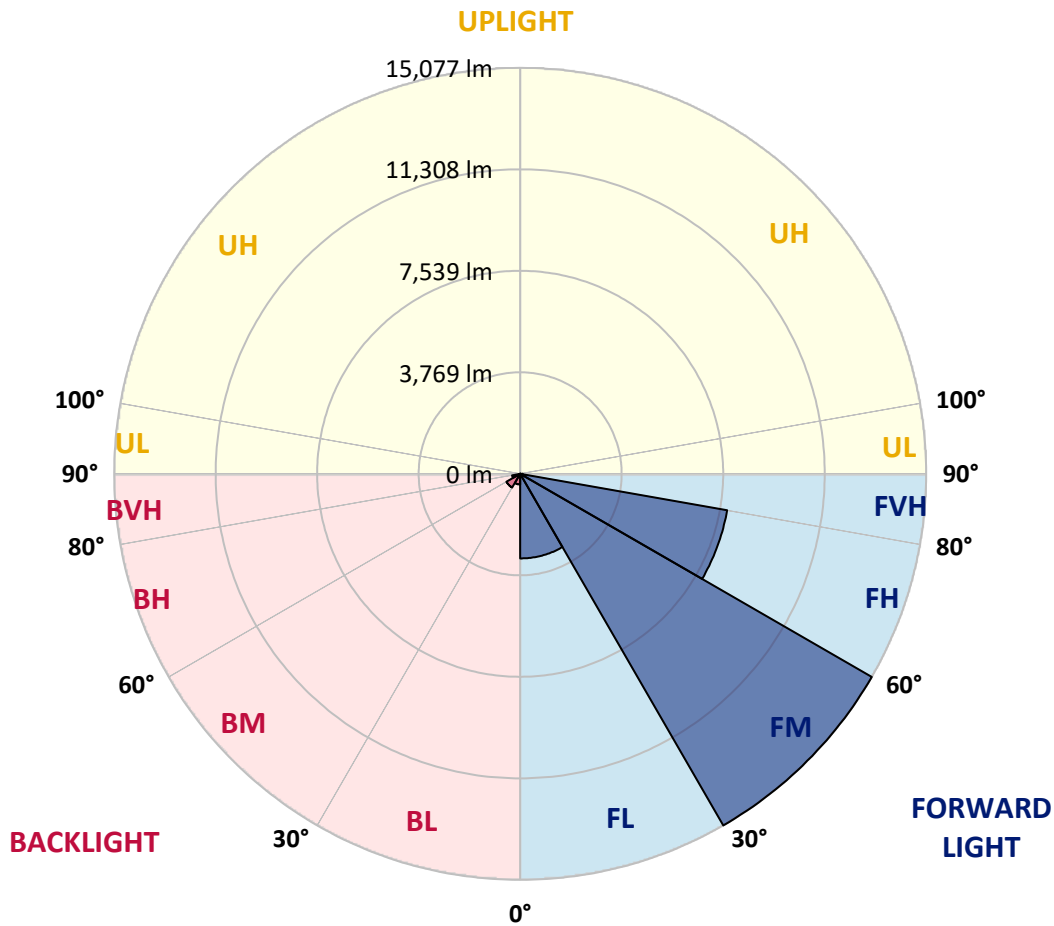


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.6	11.5			
FM (30°-60°)	15077.4	55.0			
FH (60°-80°)	7803.7	28.5			G4/12000
FVH (80°-90°)	96.5	0.4			G1/100
BL (0°-30°)	396.6	1.4	B1/500		
BM (30°-60°)	590.2	2.2	B1/1000		
BH (60°-80°)	304.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4
2.5°	5015.8	4988.4	4961.0	4856.0	4760.2	4673.5	4509.2	4294.7	4103.0	4061.9	3838.3
5°	5892.0	5860.1	5819.0	5714.1	5590.8	5444.8	5202.9	4874.3	4536.6	4463.5	4048.2
7.5°	6485.4	6458.0	6398.6	6348.4	6225.2	6083.7	5814.5	5431.1	4965.6	4874.3	4290.1
10°	6891.5	6873.3	6864.2	6823.1	6731.8	6617.7	6348.4	5946.8	5399.1	5294.2	4545.7
12.5°	7037.6	7037.6	7083.2	7151.7	7165.4	7128.9	6882.4	6480.8	5855.5	5746.0	4846.9
15°	6841.3	6864.2	6964.6	7183.6	7411.8	7562.4	7407.3	7033.0	6357.6	6238.9	5202.9
17.5°	6786.6	6809.4	6877.9	7069.5	7375.3	7777.0	7854.5	7567.0	6832.2	6731.8	5568.0
20°	6941.7	6964.6	7023.9	7188.2	7421.0	7827.2	8151.2	8082.7	7334.2	7229.3	5937.7
22.5°	7311.4	7325.1	7325.1	7452.9	7658.3	7959.5	8338.3	8571.1	7850.0	7735.9	6302.8
25°	8105.6	8078.2	7968.6	7904.7	8037.1	8283.5	8575.6	9000.1	8425.0	8269.9	6695.3
27.5°	9146.1	9237.4	8972.7	8666.9	8566.5	8708.0	8908.8	9378.9	8981.8	8817.5	7051.3
30°	10556.4	10519.9	10173.0	9734.9	9301.3	9251.1	9319.6	9702.9	9538.6	9383.5	7448.3
32.5°	11715.6	11784.1	11419.0	10885.0	10236.9	9931.1	9858.1	10090.9	10131.9	10031.5	7918.4
35°	12906.8	12979.8	12623.9	12030.5	11259.2	10748.1	10538.1	10570.1	10866.7	10738.9	8411.3
37.5°	13974.8	14038.7	13687.2	13080.2	12308.9	11683.7	11382.5	11136.0	11578.7	11464.6	8931.6
40°	14787.2	14796.3	14559.0	14015.9	13285.6	12637.5	12295.2	11811.5	12331.8	12254.2	9474.7
42.5°	15362.2	15380.5	15207.0	14741.5	14066.1	13463.6	13185.2	12610.2	13198.9	13130.4	10104.6
45°	15631.5	15663.4	15645.2	15216.2	14654.8	14134.5	14043.2	13459.1	14148.2	14084.3	10830.2
47.5°	15375.9	15375.9	15608.7	15549.3	15033.6	14686.8	14791.7	14344.5	15179.7	15120.3	11569.6
50°	14312.5	14326.2	14800.9	15480.9	15179.7	15102.1	15430.7	15211.6	16115.3	16151.8	12455.0
52.5°	11519.4	11496.6	13098.5	14403.8	15079.3	15289.2	16019.4	16097.0	17238.0	17347.5	13335.8
55°	8607.6	8593.9	10127.4	12496.1	14376.4	15193.3	16348.0	16886.6	18196.4	18264.9	13993.0
57.5°	6814.0	6777.4	7621.8	10072.6	12788.2	14764.3	16361.7	17037.2	18730.4	18849.1	14632.0
60°	5239.4	5207.5	5837.3	7494.0	10538.1	13623.4	15969.2	17046.3	19246.1	19456.1	15490.0
62.5°	3747.0	3783.5	4267.3	5376.3	8105.6	12012.3	15458.1	17174.1	20163.5	20400.8	16708.6
65°	2528.4	2510.2	2911.8	3660.3	5764.3	9844.4	14673.1	17443.4	21815.6	22230.9	18169.0
67.5°	1757.1	1770.8	1953.4	2382.4	3660.3	7557.9	13367.8	17594.0	23522.5	23846.6	19191.4
70°	1268.8	1287.0	1387.4	1601.9	2236.3	5125.3	11300.3	16904.8	23983.5	24266.5	18479.4
72.5°	835.2	871.7	1022.3	1136.4	1428.5	3208.4	8324.6	14563.5	21998.2	22208.1	15503.7
75°	451.8	461.0	657.2	848.9	1017.8	1999.0	4965.6	9821.6	16457.6	16389.1	10223.2
77.5°	351.4	365.1	406.2	607.0	684.6	1099.9	1962.5	4436.1	7795.2	7585.3	3486.8
80°	214.5	223.6	283.0	360.6	479.2	639.0	575.1	1204.9	1583.7	1483.3	511.2
82.5°	127.8	136.9	168.9	301.2	378.8	301.2	200.8	292.1	296.7	292.1	127.8
85°	22.8	22.8	118.7	209.9	200.8	86.7	118.7	95.8	86.7	91.3	27.4
87.5°	0.0	0.0	45.6	63.9	91.3	31.9	45.6	22.8	22.8	22.8	13.7
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°	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4	3669.4
2.5°	3701.4	3546.2	3226.7	2948.3	2669.9	2464.5	2309.4	2149.6	2094.8	2026.4	1989.9
5°	3765.2	3459.5	2825.1	2318.5	1889.5	1560.9	1350.9	1223.1	1141.0	1081.7	1068.0
7.5°	3861.1	3391.0	2501.0	1816.4	1346.4	1017.8	844.3	757.6	712.0	684.6	675.5
10°	3975.2	3331.7	2181.6	1414.8	949.3	716.5	620.7	584.2	565.9	556.8	552.2
12.5°	4134.9	3308.9	1912.3	1090.8	716.5	588.7	538.5	515.7	502.0	488.3	483.8
15°	4344.9	3318.0	1665.8	844.3	593.3	524.9	483.8	461.0	442.7	429.0	429.0
17.5°	4563.9	3331.7	1423.9	684.6	538.5	479.2	433.6	401.6	387.9	374.2	369.7
20°	4769.3	3327.1	1191.2	584.2	488.3	429.0	383.4	351.4	328.6	314.9	314.9
22.5°	4965.6	3299.7	972.1	524.9	447.3	378.8	328.6	296.7	278.4	264.7	264.7
25°	5175.5	3245.0	794.1	479.2	397.1	333.2	283.0	251.0	237.3	223.6	223.6
27.5°	5339.8	3153.7	648.1	438.1	351.4	287.5	241.9	214.5	200.8	191.7	191.7
30°	5517.8	3021.3	538.5	392.5	305.8	246.5	205.4	182.6	168.9	164.3	164.3
32.5°	5714.1	2875.3	461.0	346.9	260.1	209.9	173.4	159.7	146.0	141.5	141.5
35°	5942.2	2747.5	415.3	301.2	228.2	178.0	150.6	136.9	127.8	127.8	127.8
37.5°	6202.4	2615.1	374.2	264.7	196.2	150.6	127.8	123.2	118.7	114.1	114.1
40°	6485.4	2473.7	337.7	232.8	168.9	127.8	109.5	109.5	105.0	105.0	105.0
42.5°	6804.8	2350.4	305.8	205.4	146.0	109.5	95.8	95.8	91.3	91.3	91.3
45°	7151.7	2236.3	278.4	182.6	127.8	95.8	86.7	82.2	77.6	77.6	77.6
47.5°	7562.4	2172.4	255.6	159.7	109.5	82.2	73.0	68.5	63.9	59.3	59.3
50°	8087.3	2199.8	232.8	132.4	95.8	68.5	59.3	54.8	50.2	45.6	45.6
52.5°	8502.6	2186.1	200.8	114.1	77.6	54.8	45.6	41.1	36.5	31.9	31.9
55°	8803.8	2131.4	173.4	95.8	59.3	45.6	36.5	27.4	22.8	22.8	22.8
57.5°	9100.5	2076.6	146.0	77.6	45.6	31.9	22.8	18.3	18.3	18.3	18.3
60°	9561.4	1999.0	127.8	63.9	36.5	22.8	13.7	13.7	9.1	9.1	9.1
62.5°	10122.8	1903.2	105.0	54.8	27.4	18.3	9.1	9.1	0.0	0.0	0.0
65°	10738.9	1734.3	86.7	41.1	22.8	13.7	9.1	0.0	0.0	0.0	0.0
67.5°	10597.5	1392.0	73.0	27.4	18.3	9.1	4.6	0.0	0.0	0.0	0.0
70°	9374.3	940.2	59.3	22.8	13.7	9.1	4.6	0.0	0.0	0.0	0.0
72.5°	7343.4	556.8	41.1	18.3	9.1	4.6	0.0	0.0	0.0	0.0	0.0
75°	4700.9	278.4	27.4	13.7	9.1	4.6	0.0	0.0	0.0	0.0	0.0
77.5°	1574.6	136.9	18.3	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	223.6	45.6	9.1	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.2	18.3	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	9.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	4.6	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)