

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: McGRAW-EDISON

Report Number: P594391

Luminaire Tested: **ISC-PA1F-740-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1F-740-U-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE 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: 8432 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

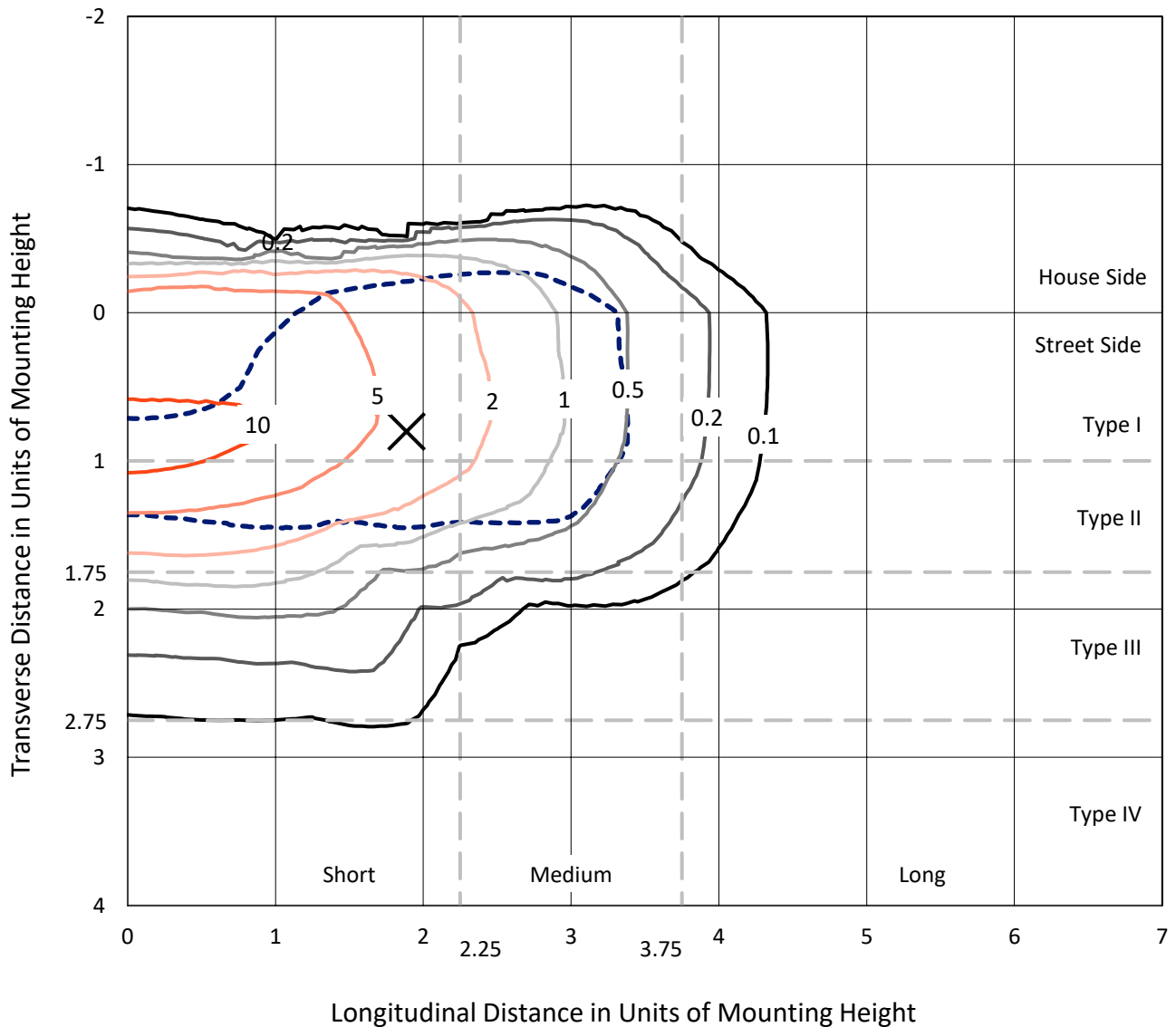
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

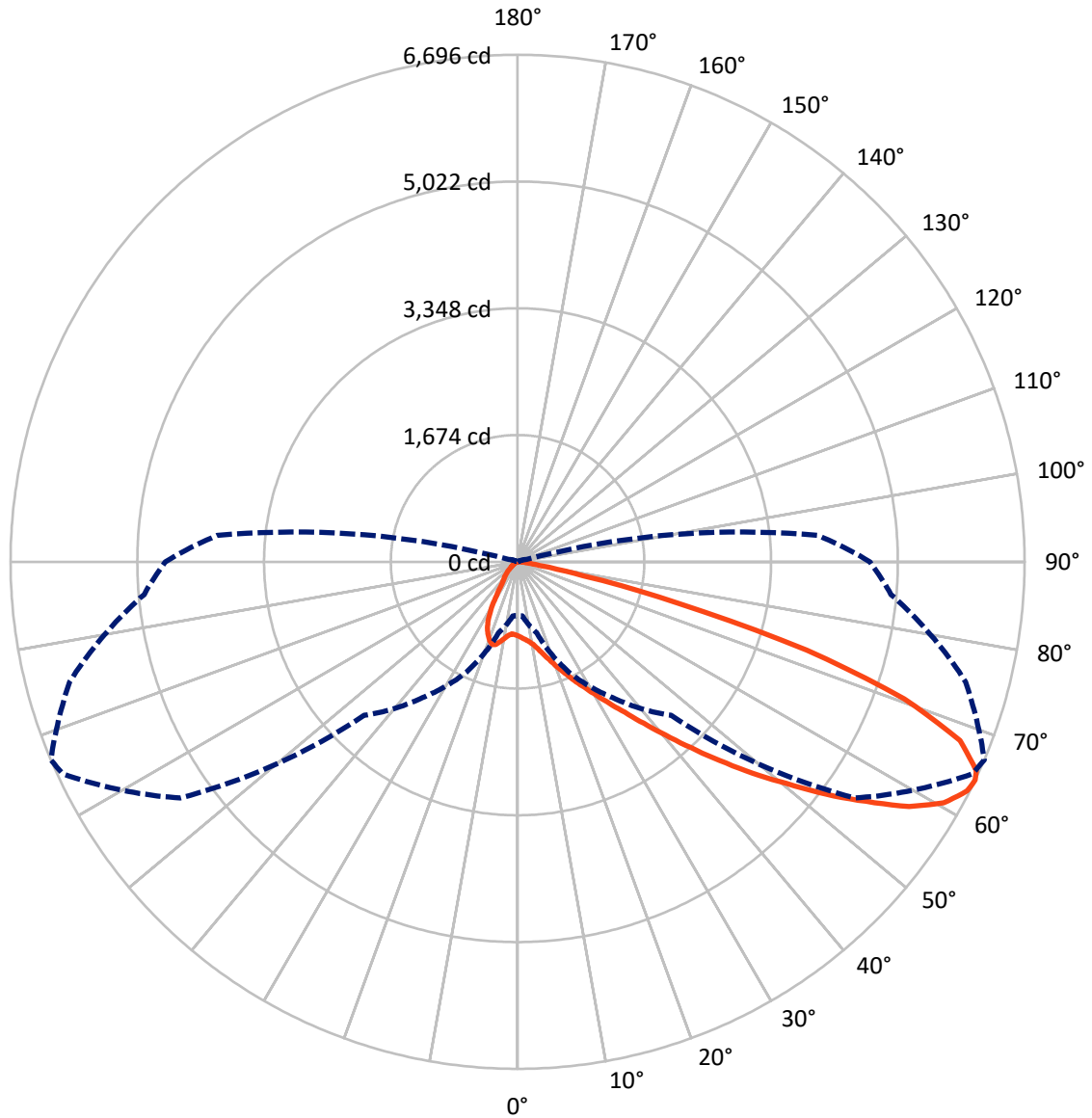
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1078.6	0.0	1078.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	7353.4	0.0	7353.4
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	8432.0	0.0	8432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	1.1
10°-20°	274.3	3.3
20°-30°	497.7	5.9
30°-40°	953.5	11.3
40°-50°	1757.3	20.8
50°-60°	2269.7	26.9
60°-70°	1859.1	22.0
70°-80°	683.4	8.1
80°-90°	44.1	0.5
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°	8432.0	100.0
0°-180°	8432.0	100.0

**Coefficient of Utilization**



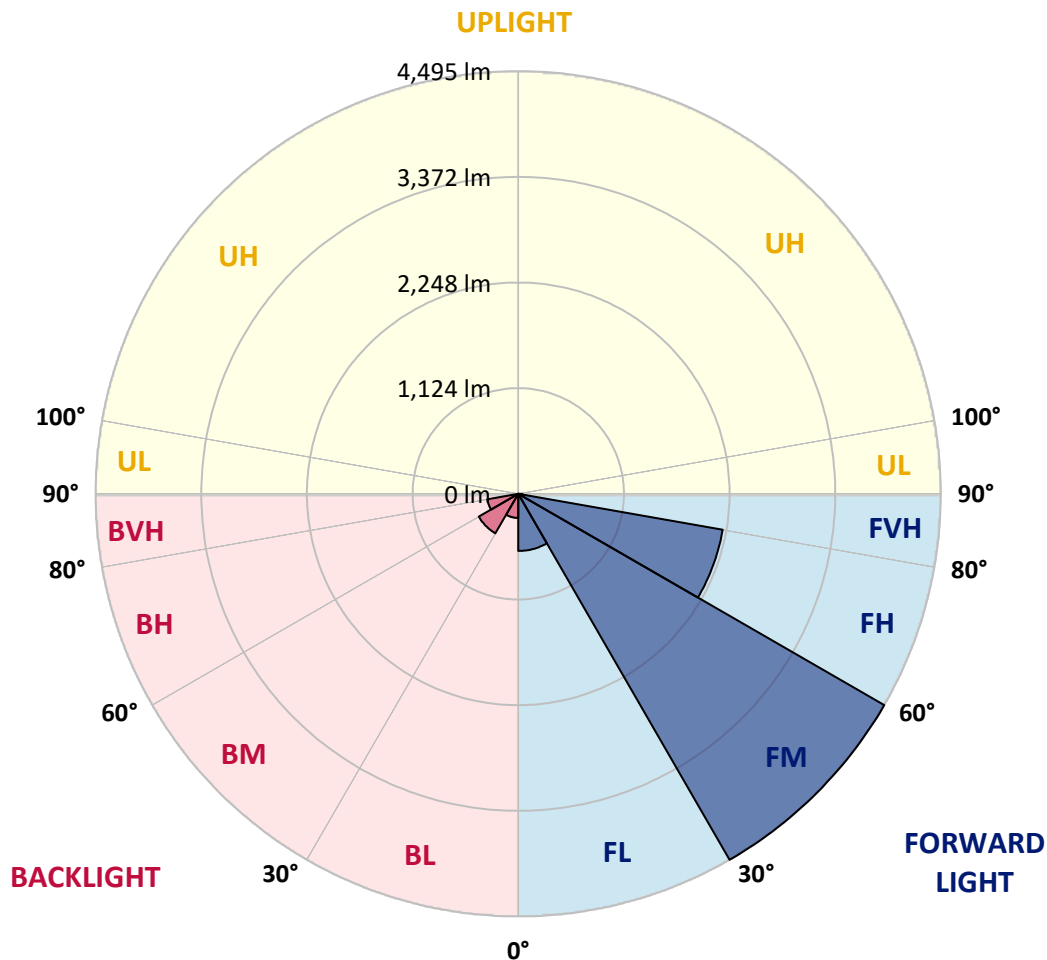
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.9	7.2			
FM (30°-60°)	4495.5	53.3			
FH (60°-80°)	2207.9	26.2			G2/5000
FVH (80°-90°)	42.1	0.5			G1/100
BL (0°-30°)	257.1	3.0	B1/500		
BM (30°-60°)	485.0	5.8	B1/1000		
BH (60°-80°)	334.6	4.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8
2.5°	1014.5	1014.5	1020.3	1017.4	1017.4	1011.6	1002.9	1005.8	1002.9	1000.0	991.4
5°	997.1	1000.0	1002.9	1008.7	1020.3	1026.1	1026.1	1029.0	1029.0	1026.1	1014.5
7.5°	988.5	994.3	1000.0	1005.8	1020.3	1029.0	1043.5	1060.9	1060.9	1063.8	1052.2
10°	1020.3	1026.1	1034.8	1043.5	1058.0	1072.5	1084.1	1104.4	1104.4	1110.2	1107.3
12.5°	1087.0	1087.0	1089.9	1095.7	1116.0	1133.4	1153.7	1171.1	1174.0	1176.9	1168.2
15°	1168.2	1168.2	1171.1	1171.1	1182.7	1208.8	1246.4	1263.8	1260.9	1258.0	1240.6
17.5°	1260.9	1260.9	1260.9	1263.8	1269.6	1284.1	1327.6	1362.4	1359.5	1356.6	1321.8
20°	1347.9	1353.7	1359.5	1362.4	1368.2	1379.8	1426.2	1466.7	1475.4	1463.8	1403.0
22.5°	1446.4	1449.3	1452.2	1460.9	1475.4	1481.2	1527.6	1588.5	1597.2	1582.7	1501.5
25°	1545.0	1550.8	1559.5	1571.1	1585.6	1614.6	1646.5	1727.6	1736.3	1718.9	1608.8
27.5°	1762.4	1759.5	1733.4	1713.1	1716.0	1736.3	1779.8	1866.8	1875.5	1858.1	1716.0
30°	2133.4	2098.7	2049.4	1959.5	1872.6	1881.2	1942.1	2026.2	2040.7	2017.5	1834.9
32.5°	2661.0	2626.2	2504.5	2307.4	2116.0	2052.3	2130.5	2211.7	2229.1	2203.0	1974.0
35°	3174.1	3165.4	3049.4	2811.7	2487.1	2310.3	2330.5	2434.9	2440.7	2408.8	2147.9
37.5°	3808.9	3777.0	3617.6	3350.9	2968.3	2652.3	2594.3	2692.9	2707.4	2669.7	2359.5
40°	4229.2	4217.6	4121.9	3933.5	3521.9	3124.8	2916.1	3011.7	3008.8	2953.8	2603.0
42.5°	4472.7	4478.5	4472.7	4382.8	4148.0	3692.9	3342.2	3348.0	3356.7	3298.7	2884.2
45°	4637.9	4637.9	4646.6	4719.1	4629.2	4371.2	3861.1	3730.6	3742.2	3652.3	3177.0
47.5°	4635.0	4652.4	4698.8	4866.9	4988.6	5003.1	4510.4	4177.0	4171.2	4035.0	3478.4
50°	4321.9	4310.3	4501.7	4878.5	5243.7	5524.9	5124.9	4649.5	4600.2	4432.1	3791.5
52.5°	3617.6	3655.2	3974.1	4527.8	5304.6	5878.5	5655.3	5165.5	5101.7	4826.3	4066.9
55°	3003.0	3043.6	3353.8	3895.8	4974.1	6003.2	6011.9	5713.3	5585.8	5168.4	4350.9
57.5°	2255.2	2333.4	2791.4	3301.6	4249.5	5693.0	6139.4	6238.0	6098.8	5498.8	4582.8
60°	1440.6	1487.0	2000.1	2629.1	3443.6	4881.4	6113.3	6542.3	6467.0	5800.3	4777.0
62.5°	942.1	968.2	1321.8	1979.8	2623.3	3678.4	5803.2	6664.1	6664.1	6003.2	4922.0
64°	710.2	716.0	968.2	1608.8	2188.5	2866.8	5437.9	6626.4	6696.0	6124.9	4951.0
65°	562.3	565.2	756.6	1336.3	1965.3	2350.8	5119.1	6545.2	6658.3	6171.3	4968.4
67.5°	394.2	402.9	489.9	771.1	1408.8	1356.6	3794.4	6162.6	6301.7	6185.8	4945.2
70°	342.0	353.6	411.6	504.4	1005.8	788.4	2017.5	5252.4	5417.6	5762.6	4603.1
72.5°	260.9	275.4	344.9	426.1	707.3	533.4	779.7	3730.6	3991.5	4455.3	3800.2
75°	188.4	194.2	255.1	347.8	495.7	411.6	336.2	1924.7	2188.5	2629.1	2362.4
77.5°	118.8	127.5	173.9	260.9	443.5	313.1	200.0	701.5	884.1	1145.0	1031.9
80°	69.6	72.5	104.4	179.7	298.6	231.9	127.5	249.3	301.5	426.1	275.4
82.5°	40.6	43.5	66.7	121.7	194.2	179.7	81.2	127.5	142.0	162.3	58.0
85°	14.5	14.5	46.4	72.5	104.4	89.9	46.4	66.7	72.5	89.9	17.4
87.5°	2.9	2.9	23.2	37.7	37.7	14.5	23.2	29.0	34.8	49.3	5.8
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°	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8	979.8
2.5°	988.5	979.8	971.1	959.5	950.8	933.4	924.7	913.1	910.2	904.4	901.5
5°	1011.6	997.1	976.9	947.9	930.5	904.4	887.0	869.6	866.7	860.9	858.0
7.5°	1043.5	1029.0	1002.9	971.1	942.1	916.0	895.7	869.6	843.5	823.2	823.2
10°	1095.7	1078.3	1043.5	1014.5	979.8	924.7	829.0	742.1	687.0	652.2	640.6
12.5°	1159.5	1136.3	1098.6	1063.8	997.1	823.2	675.4	562.3	469.6	426.1	417.4
15°	1226.1	1205.9	1168.2	1116.0	916.0	687.0	492.8	318.9	229.0	188.4	194.2
17.5°	1298.6	1269.6	1226.1	1121.8	805.8	513.1	263.8	162.3	139.1	133.3	133.3
20°	1374.0	1336.3	1292.8	1058.0	663.8	295.7	150.7	121.7	113.0	104.4	107.3
22.5°	1455.1	1408.8	1342.1	962.4	475.4	159.4	115.9	98.6	87.0	84.1	84.1
25°	1542.1	1475.4	1391.4	852.2	275.4	121.7	95.7	78.3	69.6	66.7	63.8
27.5°	1634.9	1550.8	1403.0	707.3	156.5	101.5	75.4	60.9	52.2	49.3	49.3
30°	1718.9	1626.2	1376.9	524.7	118.8	84.1	60.9	46.4	40.6	40.6	40.6
32.5°	1832.0	1710.2	1295.7	327.6	95.7	66.7	46.4	37.7	31.9	31.9	31.9
35°	1979.8	1834.9	1214.6	173.9	78.3	55.1	37.7	29.0	26.1	26.1	26.1
37.5°	2182.7	2000.1	1142.1	110.2	63.8	43.5	29.0	23.2	20.3	20.3	20.3
40°	2391.4	2197.2	1040.6	84.1	52.2	34.8	23.2	17.4	14.5	14.5	17.4
42.5°	2652.3	2426.2	924.7	72.5	43.5	29.0	17.4	11.6	8.7	11.6	11.6
45°	2916.1	2666.8	762.4	60.9	37.7	23.2	11.6	5.8	5.8	8.7	8.7
47.5°	3188.6	2921.9	591.3	52.2	31.9	17.4	8.7	2.9	2.9	5.8	5.8
50°	3469.7	3174.1	440.6	46.4	26.1	14.5	5.8	2.9	0.0	2.9	2.9
52.5°	3750.9	3417.6	342.0	40.6	23.2	11.6	2.9	0.0	0.0	0.0	2.9
55°	4011.8	3637.9	272.5	34.8	20.3	8.7	2.9	0.0	0.0	0.0	0.0
57.5°	4232.1	3800.2	217.4	31.9	17.4	5.8	2.9	0.0	0.0	0.0	0.0
60°	4440.8	3927.7	168.1	26.1	14.5	5.8	2.9	0.0	0.0	0.0	0.0
62.5°	4588.6	3977.0	136.2	23.2	11.6	5.8	0.0	0.0	0.0	0.0	0.0
64°	4652.4	3982.8	118.8	20.3	11.6	5.8	2.9	0.0	0.0	0.0	0.0
65°	4690.1	3965.4	110.2	20.3	11.6	5.8	2.9	0.0	0.0	0.0	0.0
67.5°	4698.8	3869.7	84.1	17.4	8.7	2.9	2.9	0.0	0.0	0.0	0.0
70°	4443.7	3536.4	60.9	11.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	3713.2	2701.6	40.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
75°	2319.0	1168.2	23.2	8.7	2.9	2.9	0.0	0.0	0.0	0.0	0.0
77.5°	959.5	353.6	14.5	5.8	2.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	220.3	84.1	5.8	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	52.2	14.5	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	11.6	2.9	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.9	2.9	2.9	2.9	2.9	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)