

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: P595372

Luminaire Tested: **IST-PA1F-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595372  
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: IST-PA1F-735-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 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: 7396 lumens  
Efficiency: N/A  
Efficacy: 79.1 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

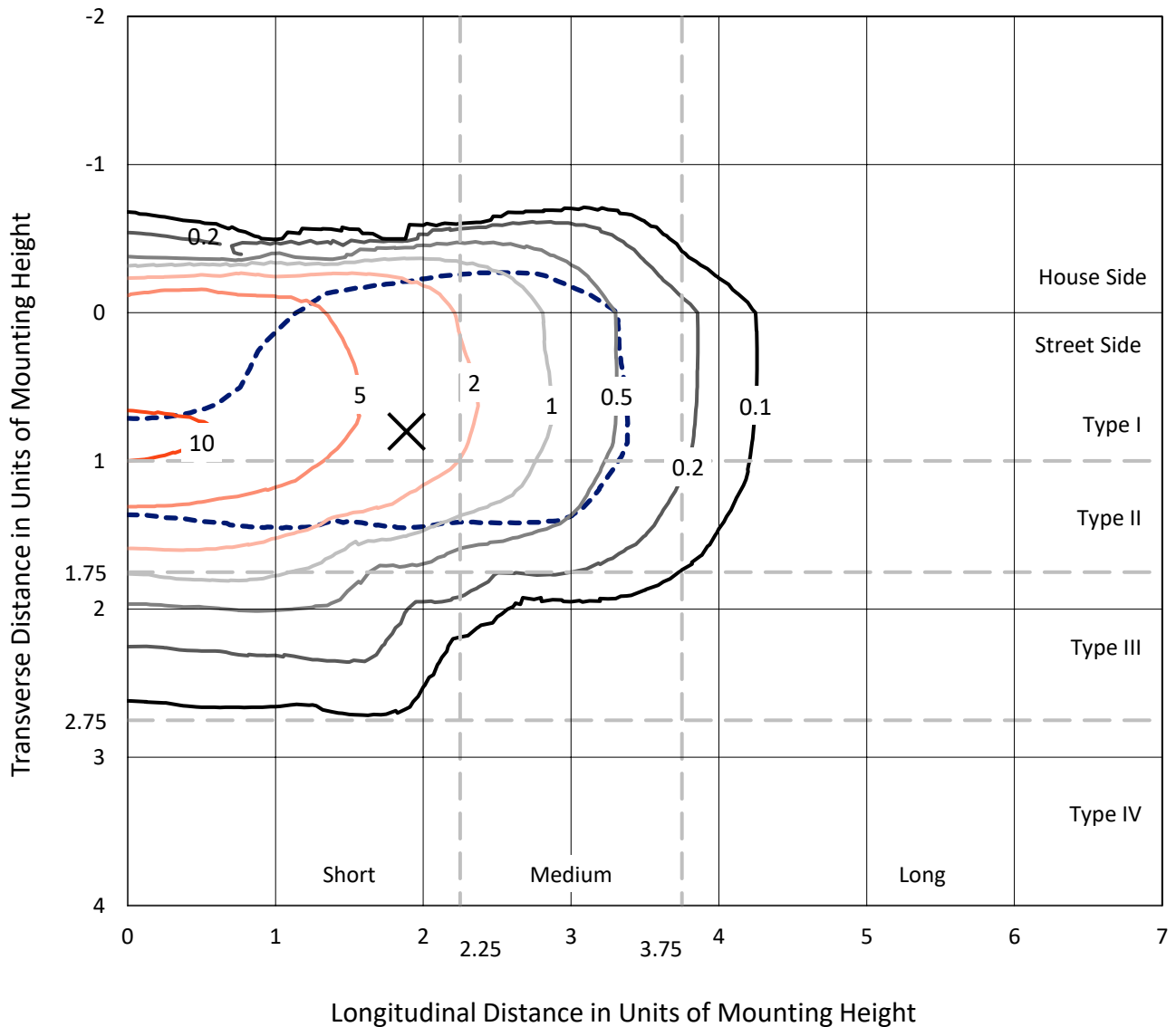
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

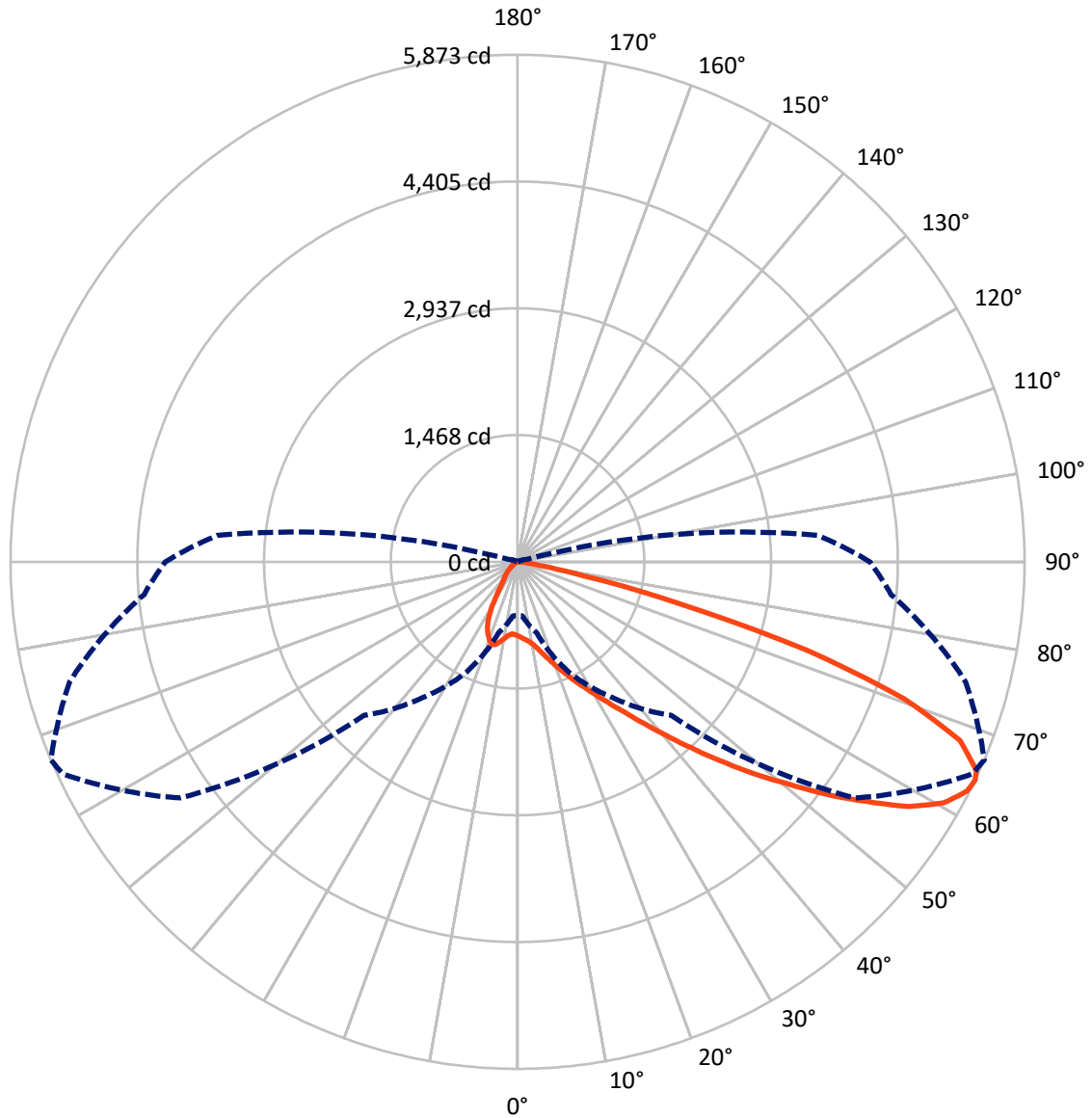
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.4 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	946.1	0.0	946.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	6449.9	0.0	6449.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	7396.0	0.0	7396.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	1.1
10°-20°	240.6	3.3
20°-30°	436.6	5.9
30°-40°	836.3	11.3
40°-50°	1541.4	20.8
50°-60°	1990.8	26.9
60°-70°	1630.7	22.0
70°-80°	599.4	8.1
80°-90°	38.6	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°	7396.0	100.0
0°-180°	7396.0	100.0

**Coefficient of Utilization**

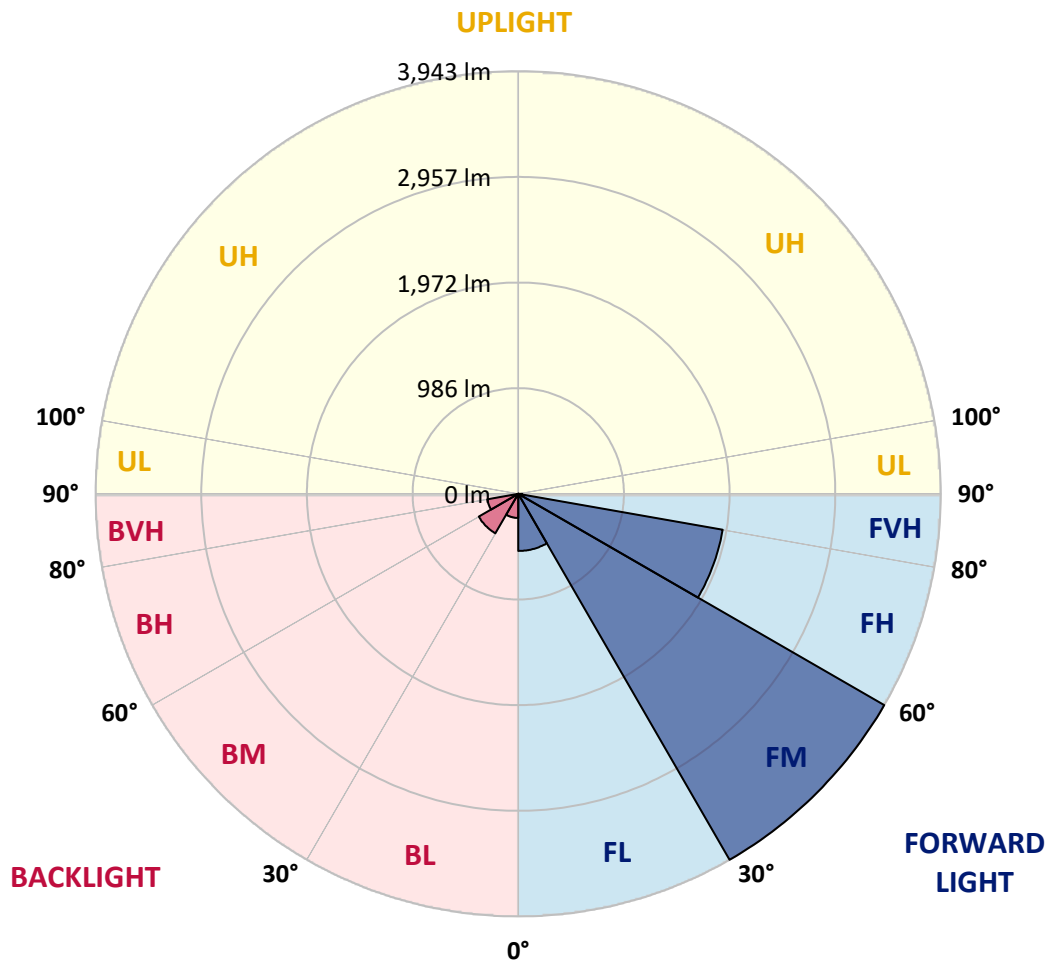


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.2	7.2			
FM (30°-60°)	3943.1	53.3			
FH (60°-80°)	1936.6	26.2			G2/5000
FVH (80°-90°)	36.9	0.5			G1/100
BL (0°-30°)	225.5	3.0	B1/500		
BM (30°-60°)	425.4	5.8	B1/1000		
BH (60°-80°)	293.5	4.0	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	889.9	889.9	895.0	892.4	892.4	887.3	879.7	882.3	879.7	877.2	869.5
5°	874.6	877.2	879.7	884.8	895.0	900.1	900.1	902.6	902.6	900.1	889.9
7.5°	867.0	872.1	877.2	882.3	895.0	902.6	915.3	930.6	930.6	933.1	922.9
10°	895.0	900.1	907.7	915.3	928.0	940.7	950.9	968.7	968.7	973.8	971.3
12.5°	953.5	953.5	956.0	961.1	978.9	994.1	1011.9	1027.2	1029.7	1032.3	1024.6
15°	1024.6	1024.6	1027.2	1027.2	1037.4	1060.2	1093.3	1108.5	1106.0	1103.5	1088.2
17.5°	1106.0	1106.0	1106.0	1108.5	1113.6	1126.3	1164.5	1195.0	1192.5	1189.9	1159.4
20°	1182.3	1187.4	1192.5	1195.0	1200.1	1210.2	1250.9	1286.5	1294.2	1284.0	1230.6
22.5°	1268.7	1271.3	1273.8	1281.4	1294.2	1299.2	1339.9	1393.3	1400.9	1388.2	1317.0
25°	1355.2	1360.3	1367.9	1378.1	1390.8	1416.2	1444.2	1515.4	1523.0	1507.7	1411.1
27.5°	1545.9	1543.3	1520.4	1502.6	1505.2	1523.0	1561.1	1637.4	1645.0	1629.8	1505.2
30°	1871.3	1840.8	1797.6	1718.8	1642.5	1650.1	1703.5	1777.2	1789.9	1769.6	1609.4
32.5°	2334.1	2303.5	2196.8	2023.9	1856.1	1800.1	1868.8	1940.0	1955.2	1932.3	1731.5
35°	2784.1	2776.5	2674.8	2466.3	2181.5	2026.4	2044.2	2135.7	2140.8	2112.9	1884.0
37.5°	3340.9	3312.9	3173.1	2939.2	2603.6	2326.4	2275.6	2362.0	2374.7	2341.7	2069.6
40°	3709.6	3699.4	3615.5	3450.2	3089.2	2740.9	2557.8	2641.7	2639.2	2590.8	2283.2
42.5°	3923.1	3928.2	3923.1	3844.3	3638.4	3239.2	2931.5	2936.6	2944.3	2893.4	2529.8
45°	4068.1	4068.1	4075.7	4139.3	4060.4	3834.2	3386.7	3272.2	3282.4	3203.6	2786.6
47.5°	4065.5	4080.8	4121.5	4268.9	4375.7	4388.4	3956.2	3663.8	3658.7	3539.2	3051.0
50°	3790.9	3780.8	3948.6	4279.1	4599.5	4846.1	4495.2	4078.2	4035.0	3887.5	3325.6
52.5°	3173.1	3206.1	3485.8	3971.4	4652.8	5156.3	4960.5	4530.8	4474.9	4233.3	3567.2
55°	2634.1	2669.7	2941.7	3417.2	4363.0	5265.6	5273.2	5011.3	4899.5	4533.3	3816.4
57.5°	1978.1	2046.7	2448.5	2896.0	3727.4	4993.5	5385.1	5471.5	5349.5	4823.2	4019.8
60°	1263.6	1304.3	1754.4	2306.1	3020.5	4281.6	5362.2	5738.5	5672.4	5087.6	4190.1
62.5°	826.3	849.2	1159.4	1736.6	2301.0	3226.5	5090.2	5845.3	5845.3	5265.6	4317.2
64°	622.9	628.0	849.2	1411.1	1919.6	2514.6	4769.8	5812.2	5873.3	5372.4	4342.7
65°	493.3	495.8	663.6	1172.1	1723.8	2062.0	4490.1	5741.1	5840.2	5413.1	4357.9
67.5°	345.8	353.4	429.7	676.3	1235.7	1189.9	3328.2	5405.4	5527.5	5425.8	4337.6
70°	300.0	310.2	361.0	442.4	882.3	691.6	1769.6	4607.1	4752.0	5054.6	4037.6
72.5°	228.8	241.5	302.6	373.8	620.4	467.8	683.9	3272.2	3501.1	3907.9	3333.3
75°	165.3	170.4	223.7	305.1	434.8	361.0	294.9	1688.2	1919.6	2306.1	2072.2
77.5°	104.2	111.9	152.6	228.8	389.0	274.6	175.4	615.3	775.5	1004.3	905.1
80°	61.0	63.6	91.5	157.6	261.9	203.4	111.9	218.7	264.4	373.8	241.5
82.5°	35.6	38.1	58.5	106.8	170.4	157.6	71.2	111.9	124.6	142.4	50.9
85°	12.7	12.7	40.7	63.6	91.5	78.8	40.7	58.5	63.6	78.8	15.3
87.5°	2.5	2.5	20.3	33.1	33.1	12.7	20.3	25.4	30.5	43.2	5.1
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°	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4	859.4
2.5°	867.0	859.4	851.8	841.6	834.0	818.7	811.1	800.9	798.4	793.3	790.7
5°	887.3	874.6	856.8	831.4	816.2	793.3	778.0	762.8	760.2	755.1	752.6
7.5°	915.3	902.6	879.7	851.8	826.3	803.4	785.6	762.8	739.9	722.1	722.1
10°	961.1	945.8	915.3	889.9	859.4	811.1	727.2	650.9	602.6	572.1	561.9
12.5°	1017.0	996.7	963.6	933.1	874.6	722.1	592.4	493.3	411.9	373.8	366.1
15°	1075.5	1057.7	1024.6	978.9	803.4	602.6	432.2	279.7	200.9	165.3	170.4
17.5°	1139.1	1113.6	1075.5	984.0	706.8	450.0	231.4	142.4	122.0	117.0	117.0
20°	1205.2	1172.1	1134.0	928.0	582.2	259.3	132.2	106.8	99.2	91.5	94.1
22.5°	1276.4	1235.7	1177.2	844.1	417.0	139.8	101.7	86.4	76.3	73.7	73.7
25°	1352.6	1294.2	1220.4	747.5	241.5	106.8	83.9	68.6	61.0	58.5	55.9
27.5°	1434.0	1360.3	1230.6	620.4	137.3	89.0	66.1	53.4	45.8	43.2	43.2
30°	1507.7	1426.4	1207.7	460.2	104.2	73.7	53.4	40.7	35.6	35.6	35.6
32.5°	1606.9	1500.1	1136.5	287.3	83.9	58.5	40.7	33.1	28.0	28.0	28.0
35°	1736.6	1609.4	1065.3	152.6	68.6	48.3	33.1	25.4	22.9	22.9	22.9
37.5°	1914.5	1754.4	1001.8	96.6	55.9	38.1	25.4	20.3	17.8	17.8	17.8
40°	2097.6	1927.2	912.8	73.7	45.8	30.5	20.3	15.3	12.7	12.7	15.3
42.5°	2326.4	2128.1	811.1	63.6	38.1	25.4	15.3	10.2	7.6	10.2	10.2
45°	2557.8	2339.1	668.7	53.4	33.1	20.3	10.2	5.1	5.1	7.6	7.6
47.5°	2796.8	2562.9	518.7	45.8	28.0	15.3	7.6	2.5	2.5	5.1	5.1
50°	3043.4	2784.1	386.5	40.7	22.9	12.7	5.1	2.5	0.0	2.5	2.5
52.5°	3290.0	2997.7	300.0	35.6	20.3	10.2	2.5	0.0	0.0	0.0	2.5
55°	3518.9	3190.9	239.0	30.5	17.8	7.6	2.5	0.0	0.0	0.0	0.0
57.5°	3712.1	3333.3	190.7	28.0	15.3	5.1	2.5	0.0	0.0	0.0	0.0
60°	3895.2	3445.1	147.5	22.9	12.7	5.1	2.5	0.0	0.0	0.0	0.0
62.5°	4024.8	3488.4	119.5	20.3	10.2	5.1	0.0	0.0	0.0	0.0	0.0
64°	4080.8	3493.5	104.2	17.8	10.2	5.1	2.5	0.0	0.0	0.0	0.0
65°	4113.8	3478.2	96.6	17.8	10.2	5.1	2.5	0.0	0.0	0.0	0.0
67.5°	4121.5	3394.3	73.7	15.3	7.6	2.5	2.5	0.0	0.0	0.0	0.0
70°	3897.7	3101.9	53.4	10.2	5.1	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	3257.0	2369.6	35.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
75°	2034.0	1024.6	20.3	7.6	2.5	2.5	0.0	0.0	0.0	0.0	0.0
77.5°	841.6	310.2	12.7	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0
80°	193.2	73.7	5.1	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	12.7	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	10.2	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.5	2.5	2.5	2.5	2.5	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)