

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: P595374

Luminaire Tested: **IST-PA1F-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
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-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7635 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

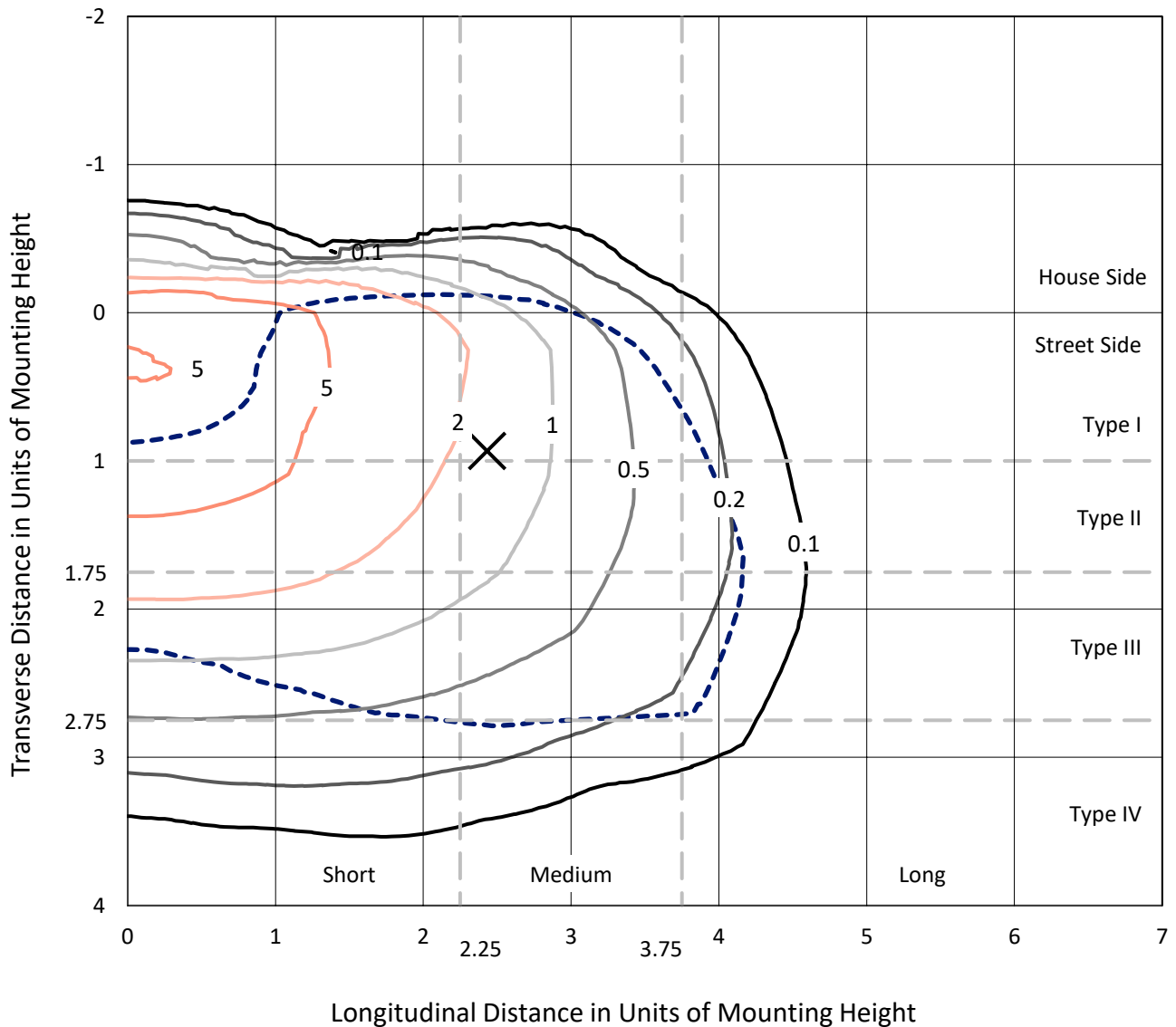
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

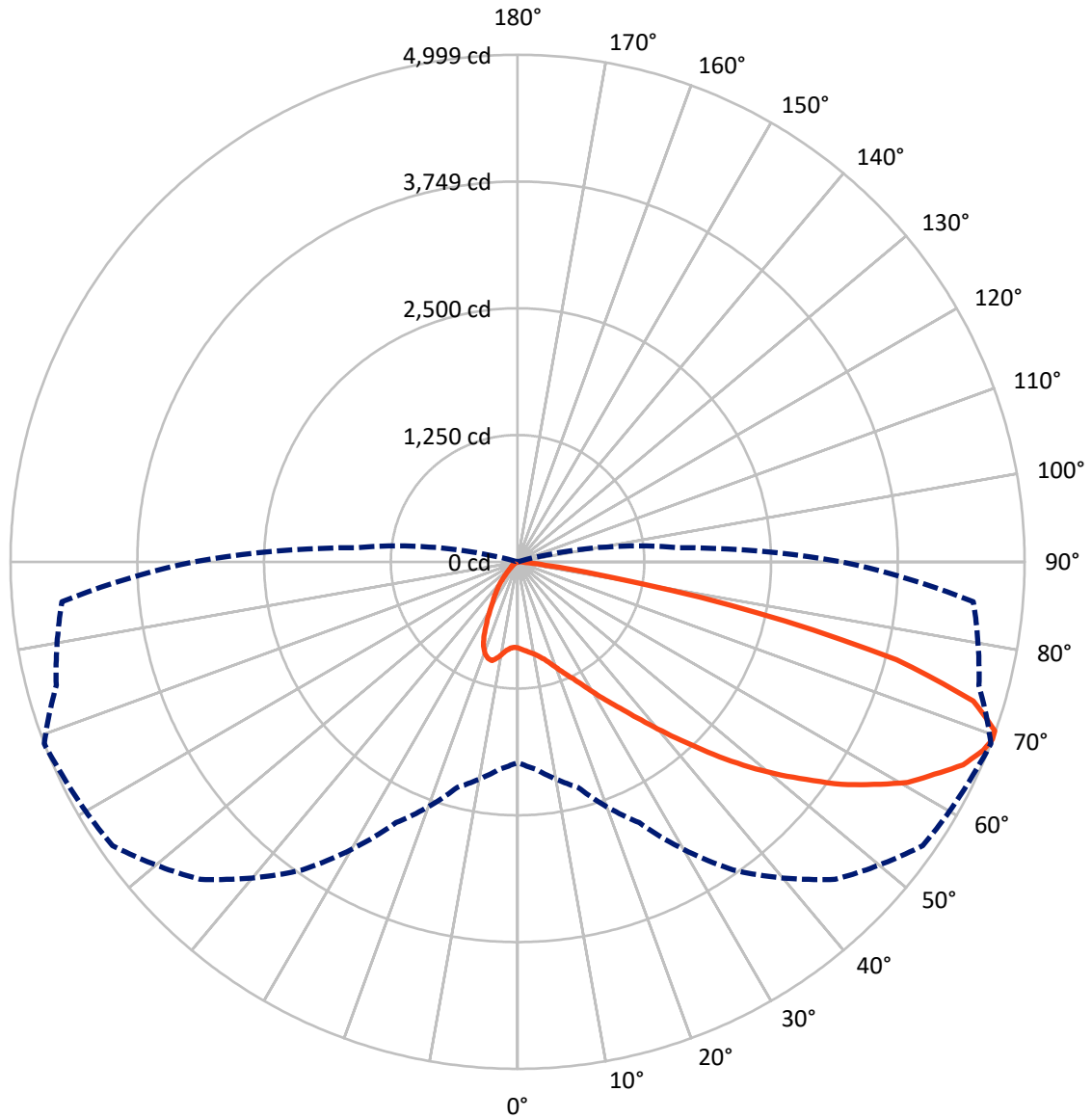
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	744.0	0.0	744.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	6891.0	0.0	6891.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	7635.0	0.0	7635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.1
10°-20°	214.3	2.8
20°-30°	356.7	4.7
30°-40°	642.2	8.4
40°-50°	1164.5	15.3
50°-60°	1819.8	23.8
60°-70°	2105.5	27.6
70°-80°	1177.5	15.4
80°-90°	73.5	1.0
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°	7635.0	100.0
0°-180°	7635.0	100.0

Coefficient of Utilization

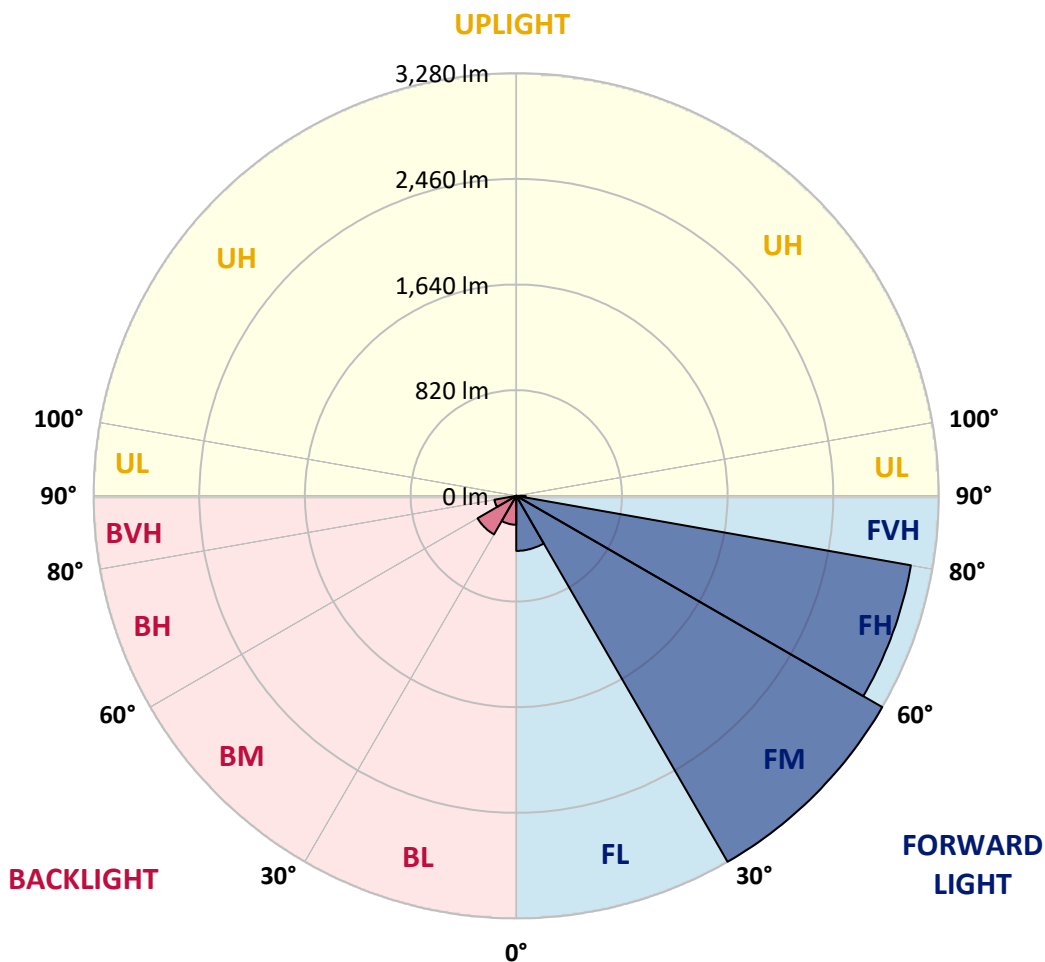


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	427.1	5.6			
FM (30°-60°)	3280.2	43.0			
FH (60°-80°)	3110.7	40.7			G2/5000
FVH (80°-90°)	73.0	1.0			G1/100
BL (0°-30°)	224.8	2.9	B1/500		
BM (30°-60°)	346.3	4.5	B1/1000		
BH (60°-80°)	172.3	2.3	B1/500		G1/500
BVH (80°-90°)	0.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	879.8	879.8	879.8	874.7	877.2	874.7	872.2	864.5	867.1	864.5	856.9
5°	849.3	851.8	859.4	864.5	877.2	882.3	884.9	884.9	882.3	877.2	872.2
7.5°	790.8	790.8	798.4	813.7	839.1	867.1	890.0	902.7	905.2	905.2	897.6
10°	775.5	775.5	785.7	795.9	821.3	854.4	890.0	920.5	925.6	930.6	928.1
12.5°	767.9	770.4	780.6	798.4	831.5	862.0	900.1	943.4	958.6	971.3	973.9
15°	778.1	778.1	788.2	806.0	844.2	887.4	935.7	984.0	999.3	1017.1	1029.8
17.5°	793.3	798.4	803.5	821.3	856.9	910.3	973.9	1037.4	1055.2	1078.1	1088.3
20°	818.8	818.8	823.8	839.1	877.2	940.8	1029.8	1106.1	1121.3	1136.6	1149.3
22.5°	849.3	851.8	851.8	864.5	907.8	976.4	1078.1	1172.2	1197.6	1205.3	1210.3
25°	940.8	935.7	917.9	910.3	943.4	1017.1	1136.6	1251.0	1279.0	1286.6	1276.4
27.5°	1131.5	1111.2	1062.9	1012.0	1006.9	1080.7	1215.4	1350.2	1380.7	1383.2	1347.6
30°	1370.5	1373.1	1294.2	1184.9	1111.2	1149.3	1301.9	1474.8	1505.3	1492.6	1436.6
32.5°	1665.5	1652.8	1594.3	1436.6	1289.2	1256.1	1396.0	1604.5	1640.1	1619.7	1546.0
35°	1917.2	1924.8	1853.6	1713.8	1528.2	1421.4	1510.4	1749.4	1792.6	1757.0	1665.5
37.5°	2128.3	2138.4	2095.2	1980.8	1815.5	1647.7	1660.4	1919.8	1978.2	1942.6	1828.2
40°	2362.2	2369.8	2352.0	2227.4	2080.0	1917.2	1861.3	2115.5	2194.4	2146.1	2026.6
42.5°	2619.0	2647.0	2616.5	2517.3	2364.7	2224.9	2141.0	2354.6	2433.4	2402.9	2242.7
45°	2969.9	2972.4	2936.8	2837.7	2680.0	2565.6	2463.9	2608.8	2710.5	2672.4	2484.2
47.5°	3229.3	3247.1	3226.7	3158.1	3030.9	2954.6	2814.8	2888.5	2995.3	2947.0	2733.4
50°	3427.6	3475.9	3458.1	3478.5	3414.9	3381.8	3168.2	3178.4	3282.7	3242.0	2987.7
52.5°	3536.9	3598.0	3603.0	3707.3	3760.7	3842.1	3511.5	3496.2	3562.4	3526.8	3247.1
55°	3521.7	3536.9	3664.1	3854.8	4063.3	4248.9	3847.1	3783.6	3875.1	3775.9	3521.7
57.5°	3374.2	3412.3	3636.1	3872.6	4241.3	4510.8	4137.0	4065.8	4142.1	4009.9	3803.9
60°	3163.2	3219.1	3506.4	3844.6	4345.5	4668.4	4419.3	4348.1	4416.7	4256.5	4124.3
62.5°	2972.4	2997.9	3262.3	3727.6	4284.5	4660.8	4637.9	4571.8	4612.5	4444.7	4398.9
65°	2700.4	2710.5	2972.4	3516.6	4149.7	4610.0	4757.4	4782.9	4826.1	4602.3	4594.7
67.5°	2280.8	2303.7	2563.1	3147.9	3926.0	4510.8	4851.5	4902.4	4953.2	4686.2	4630.3
69°	1978.2	2052.0	2301.2	2837.7	3709.8	4426.9	4877.0	4958.3	4999.0	4709.1	4510.8
70°	1731.6	1795.2	2082.5	2598.7	3519.1	4332.8	4894.7	4950.7	4991.4	4660.8	4315.0
72.5°	869.6	951.0	1345.1	1896.9	2797.0	3903.1	4803.2	4742.2	4699.0	4287.0	3491.2
75°	335.6	348.4	577.2	1080.7	1749.4	2865.7	4101.4	3987.0	3859.9	3252.1	2069.8
77.5°	185.6	183.1	251.7	478.0	745.0	1401.0	2774.1	2591.0	2415.6	1746.9	839.1
80°	78.8	83.9	109.3	228.8	391.6	485.7	1347.6	1197.6	953.5	554.3	200.9
82.5°	48.3	50.9	76.3	139.8	272.1	185.6	437.3	373.8	274.6	150.0	48.3
85°	15.3	17.8	53.4	94.1	132.2	76.3	99.2	86.5	76.3	63.6	15.3
87.5°	2.5	2.5	20.3	50.9	35.6	12.7	10.2	17.8	28.0	30.5	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°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	854.4	849.3	844.2	841.6	841.6	836.6	834.0	831.5	831.5	828.9	828.9
5°	864.5	859.4	854.4	851.8	846.7	844.2	844.2	844.2	841.6	844.2	846.7
7.5°	890.0	882.3	879.8	877.2	877.2	869.6	856.9	823.8	790.8	780.6	770.4
10°	925.6	923.0	923.0	923.0	905.2	839.1	747.6	666.2	623.0	587.4	587.4
12.5°	976.4	976.4	973.9	966.2	874.7	714.5	572.1	450.1	378.9	338.2	343.3
15°	1032.3	1029.8	1034.9	986.6	770.4	551.8	345.8	244.1	206.0	200.9	200.9
17.5°	1090.8	1095.9	1090.8	933.2	633.1	340.7	206.0	185.6	180.5	180.5	180.5
20°	1151.9	1146.8	1139.1	841.6	460.2	213.6	178.0	172.9	167.8	165.3	165.3
22.5°	1212.9	1207.8	1156.9	724.7	287.3	175.4	167.8	157.6	150.0	147.5	147.5
25°	1271.4	1271.4	1123.9	574.7	195.8	165.3	152.6	142.4	134.8	127.1	127.1
27.5°	1345.1	1350.2	1070.5	401.8	165.3	152.6	137.3	122.1	111.9	106.8	106.8
30°	1429.0	1436.6	984.0	261.9	150.0	134.8	119.5	101.7	86.5	81.4	78.8
32.5°	1528.2	1535.8	884.9	172.9	134.8	117.0	99.2	76.3	61.0	58.5	55.9
35°	1655.3	1637.5	765.4	137.3	117.0	99.2	76.3	53.4	43.2	40.7	40.7
37.5°	1813.0	1774.8	628.1	119.5	99.2	78.8	55.9	35.6	28.0	28.0	25.4
40°	1993.5	1886.7	485.7	106.8	83.9	61.0	35.6	22.9	17.8	17.8	17.8
42.5°	2191.8	1980.8	345.8	94.1	68.7	43.2	22.9	12.7	10.2	10.2	10.2
45°	2420.7	2067.2	236.5	81.4	58.5	30.5	12.7	5.1	5.1	5.1	5.1
47.5°	2649.5	2123.2	157.6	71.2	43.2	17.8	7.6	2.5	2.5	2.5	2.5
50°	2880.9	2166.4	122.1	61.0	30.5	10.2	2.5	0.0	0.0	0.0	0.0
52.5°	3086.9	2196.9	99.2	50.9	20.3	7.6	2.5	0.0	0.0	0.0	0.0
55°	3264.9	2199.5	86.5	40.7	15.3	5.1	0.0	0.0	0.0	0.0	0.0
57.5°	3445.4	2179.1	73.7	30.5	10.2	2.5	0.0	0.0	0.0	0.0	0.0
60°	3554.7	2125.7	58.5	22.9	7.6	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	3620.8	2036.7	45.8	15.3	5.1	2.5	0.0	0.0	0.0	0.0	0.0
65°	3582.7	1924.8	33.1	10.2	5.1	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3404.7	1751.9	22.9	7.6	2.5	2.5	0.0	0.0	0.0	0.0	0.0
69°	3193.7	1594.3	20.3	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0
70°	3008.0	1472.2	17.8	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2240.1	948.4	15.3	5.1	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1258.6	317.8	10.2	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	472.9	81.4	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	104.3	20.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	0.0	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)