

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: P594976

Luminaire Tested: **IST-PA1A-750-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594976  
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-PA1A-750-U-T2U-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 350mA 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: 2909 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

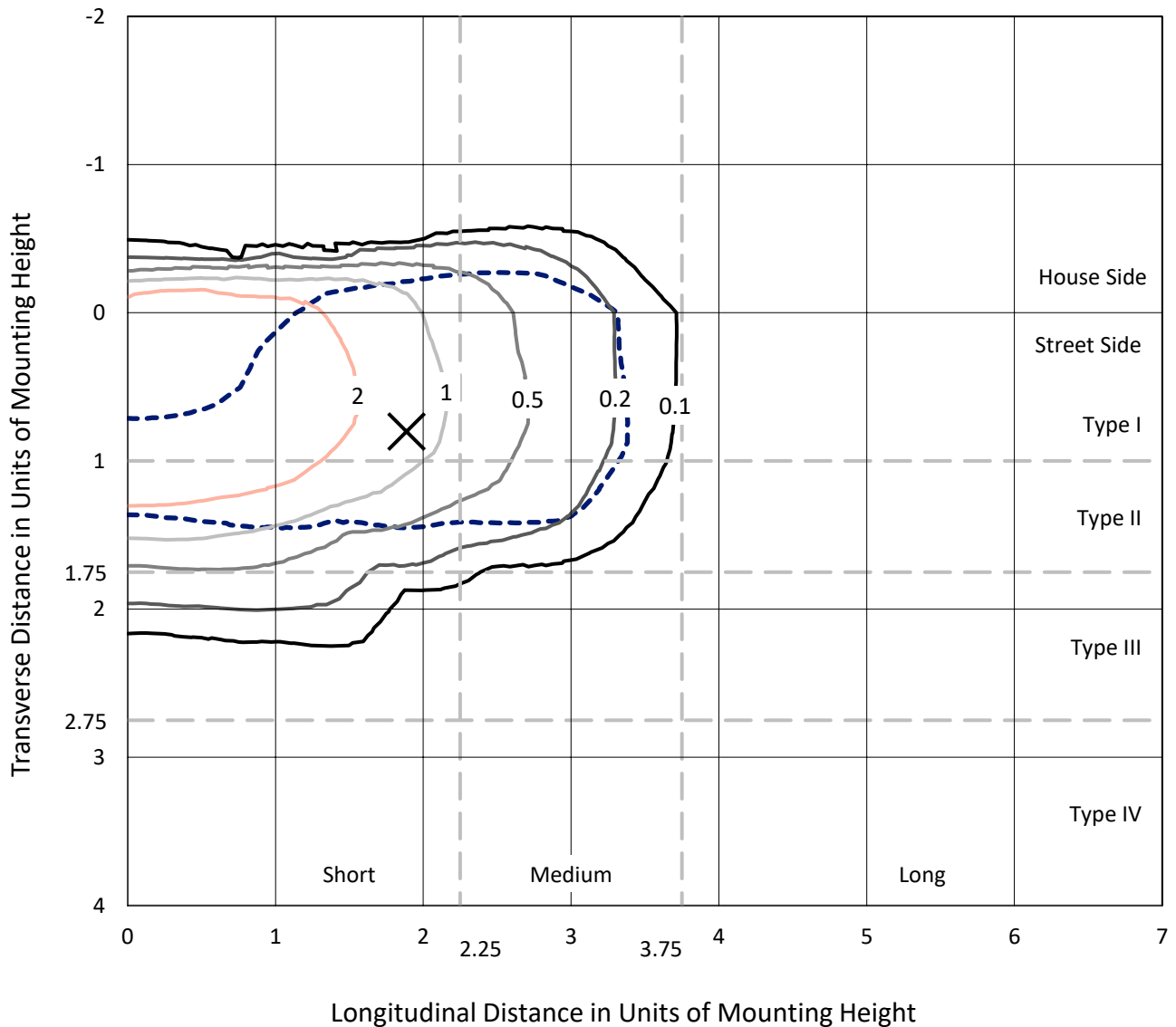
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

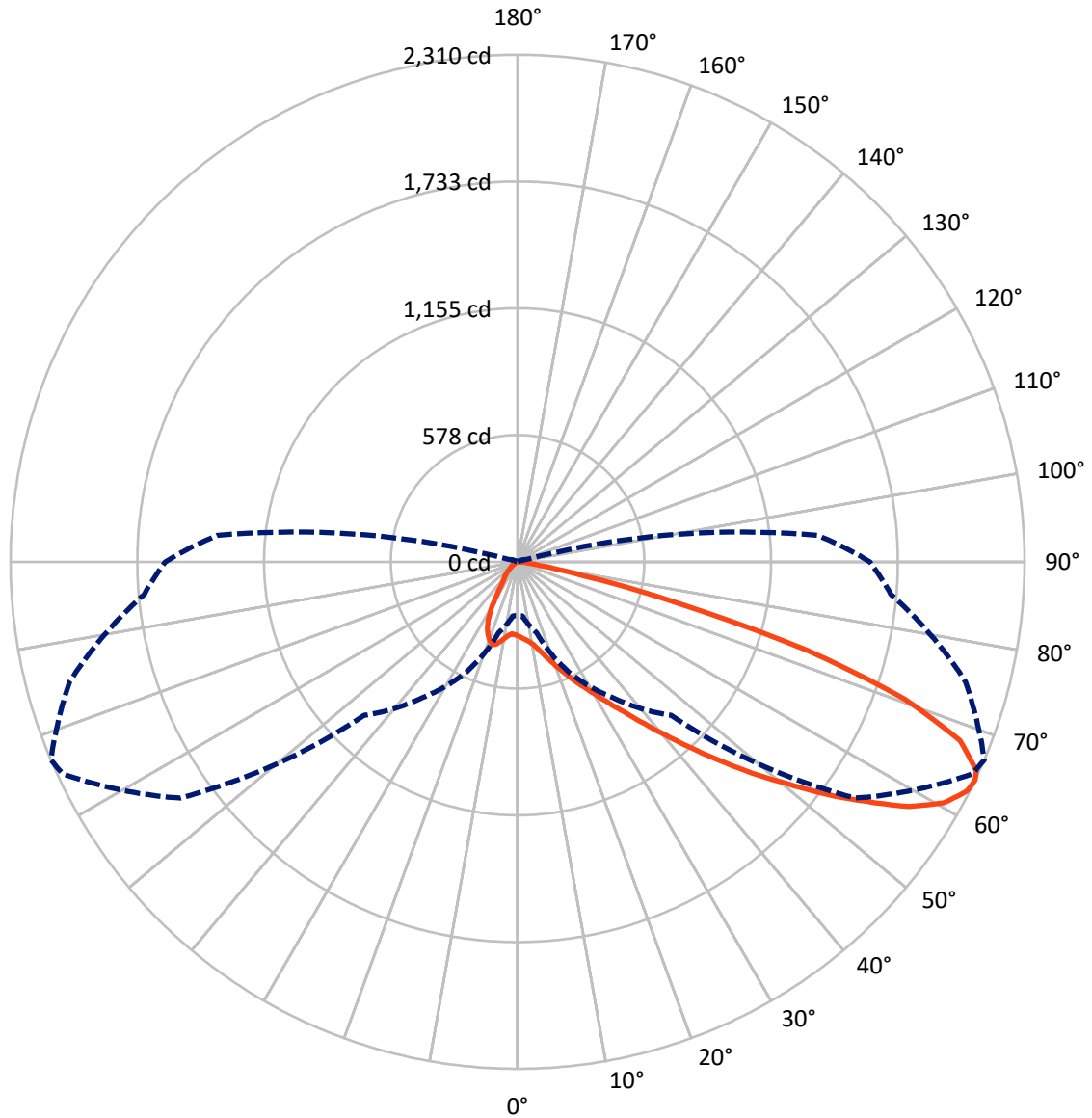
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 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	372.1	0.0	372.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	2536.9	0.0	2536.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	2909.0	0.0	2909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	1.1
10°-20°	94.6	3.3
20°-30°	171.7	5.9
30°-40°	328.9	11.3
40°-50°	606.3	20.8
50°-60°	783.0	26.9
60°-70°	641.4	22.0
70°-80°	235.8	8.1
80°-90°	15.2	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°	2909.0	100.0
0°-180°	2909.0	100.0

**Coefficient of Utilization**



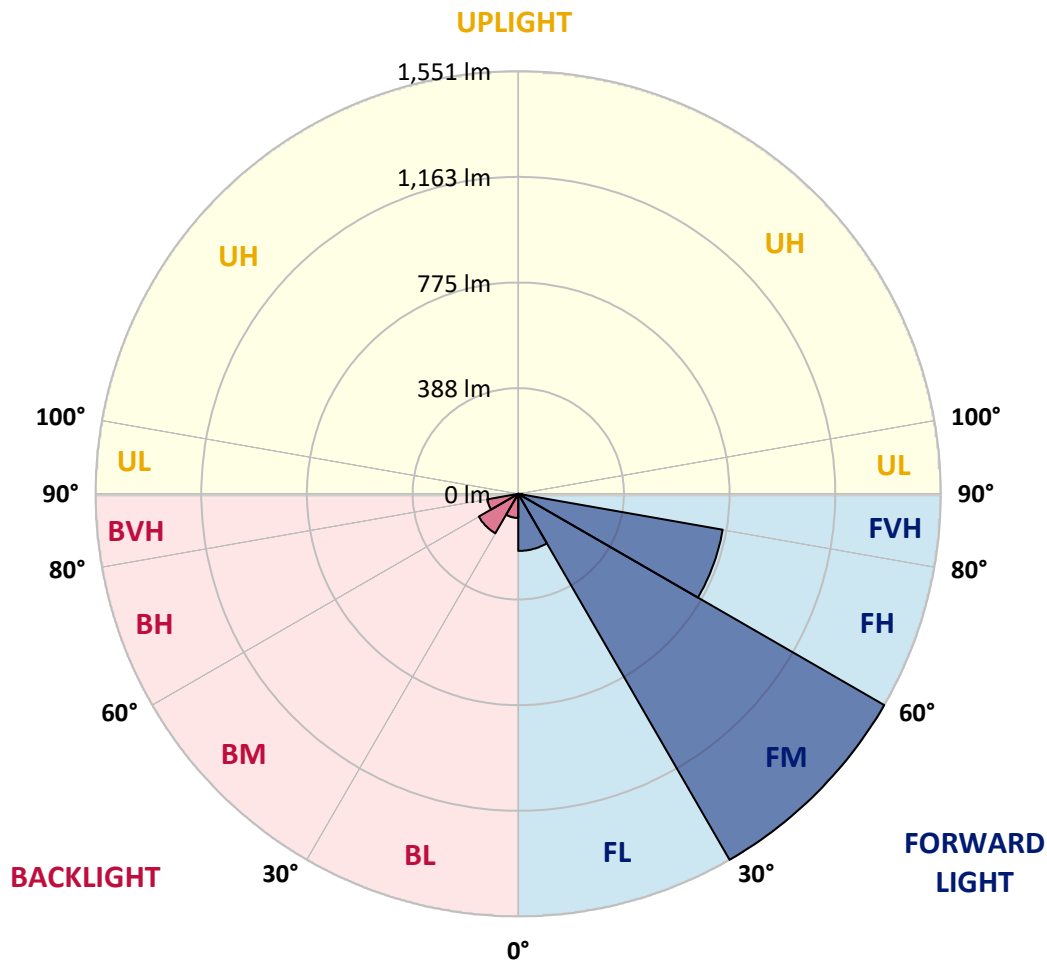
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.7	7.2			
FM (30°-60°)	1550.9	53.3			
FH (60°-80°)	761.7	26.2			G1/1800
FVH (80°-90°)	14.5	0.5			G1/100
BL (0°-30°)	88.7	3.0	B0/110		
BM (30°-60°)	167.3	5.8	B0/220		
BH (60°-80°)	115.4	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
2.5°	350.0	350.0	352.0	351.0	351.0	349.0	346.0	347.0	346.0	345.0	342.0
5°	344.0	345.0	346.0	348.0	352.0	354.0	354.0	355.0	355.0	354.0	350.0
7.5°	341.0	343.0	345.0	347.0	352.0	355.0	360.0	366.0	366.0	367.0	363.0
10°	352.0	354.0	357.0	360.0	365.0	370.0	374.0	381.0	381.0	383.0	382.0
12.5°	375.0	375.0	376.0	378.0	385.0	391.0	398.0	404.0	405.0	406.0	403.0
15°	403.0	403.0	404.0	404.0	408.0	417.0	430.0	436.0	435.0	434.0	428.0
17.5°	435.0	435.0	435.0	436.0	438.0	443.0	458.0	470.0	469.0	468.0	456.0
20°	465.0	467.0	469.0	470.0	472.0	476.0	492.0	506.0	509.0	505.0	484.0
22.5°	499.0	500.0	501.0	504.0	509.0	511.0	527.0	548.0	551.0	546.0	518.0
25°	533.0	535.0	538.0	542.0	547.0	557.0	568.0	596.0	599.0	593.0	555.0
27.5°	608.0	607.0	598.0	591.0	592.0	599.0	614.0	644.0	647.0	641.0	592.0
30°	736.0	724.0	707.0	676.0	646.0	649.0	670.0	699.0	704.0	696.0	633.0
32.5°	918.0	906.0	864.0	796.0	730.0	708.0	735.0	763.0	769.0	760.0	681.0
35°	1095.0	1092.0	1052.0	970.0	858.0	797.0	804.0	840.0	842.0	831.0	741.0
37.5°	1314.0	1303.0	1248.0	1156.0	1024.0	915.0	895.0	929.0	934.0	921.0	814.0
40°	1459.0	1455.0	1422.0	1357.0	1215.0	1078.0	1006.0	1039.0	1038.0	1019.0	898.0
42.5°	1543.1	1545.1	1543.1	1512.1	1431.0	1274.0	1153.0	1155.0	1158.0	1138.0	995.0
45°	1600.1	1600.1	1603.1	1628.1	1597.1	1508.1	1332.0	1287.0	1291.0	1260.0	1096.0
47.5°	1599.1	1605.1	1621.1	1679.1	1721.1	1726.1	1556.1	1441.0	1439.0	1392.0	1200.0
50°	1491.1	1487.1	1553.1	1683.1	1809.1	1906.1	1768.1	1604.1	1587.1	1529.1	1308.0
52.5°	1248.0	1261.0	1371.0	1562.1	1830.1	2028.1	1951.1	1782.1	1760.1	1665.1	1403.0
55°	1036.0	1050.0	1157.0	1344.0	1716.1	2071.1	2074.1	1971.1	1927.1	1783.1	1501.1
57.5°	778.0	805.0	963.0	1139.0	1466.0	1964.1	2118.1	2152.1	2104.1	1897.1	1581.1
60°	497.0	513.0	690.0	907.0	1188.0	1684.1	2109.1	2257.1	2231.1	2001.1	1648.1
62.5°	325.0	334.0	456.0	683.0	905.0	1269.0	2002.1	2299.1	2299.1	2071.1	1698.1
64°	245.0	247.0	334.0	555.0	755.0	989.0	1876.1	2286.1	2310.1	2113.1	1708.1
65°	194.0	195.0	261.0	461.0	678.0	811.0	1766.1	2258.1	2297.1	2129.1	1714.1
67.5°	136.0	139.0	169.0	266.0	486.0	468.0	1309.0	2126.1	2174.1	2134.1	1706.1
70°	118.0	122.0	142.0	174.0	347.0	272.0	696.0	1812.1	1869.1	1988.1	1588.1
72.5°	90.0	95.0	119.0	147.0	244.0	184.0	269.0	1287.0	1377.0	1537.1	1311.0
75°	65.0	67.0	88.0	120.0	171.0	142.0	116.0	664.0	755.0	907.0	815.0
77.5°	41.0	44.0	60.0	90.0	153.0	108.0	69.0	242.0	305.0	395.0	356.0
80°	24.0	25.0	36.0	62.0	103.0	80.0	44.0	86.0	104.0	147.0	95.0
82.5°	14.0	15.0	23.0	42.0	67.0	62.0	28.0	44.0	49.0	56.0	20.0
85°	5.0	5.0	16.0	25.0	36.0	31.0	16.0	23.0	25.0	31.0	6.0
87.5°	1.0	1.0	8.0	13.0	13.0	5.0	8.0	10.0	12.0	17.0	2.0
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°	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
2.5°	341.0	338.0	335.0	331.0	328.0	322.0	319.0	315.0	314.0	312.0	311.0
5°	349.0	344.0	337.0	327.0	321.0	312.0	306.0	300.0	299.0	297.0	296.0
7.5°	360.0	355.0	346.0	335.0	325.0	316.0	309.0	300.0	291.0	284.0	284.0
10°	378.0	372.0	360.0	350.0	338.0	319.0	286.0	256.0	237.0	225.0	221.0
12.5°	400.0	392.0	379.0	367.0	344.0	284.0	233.0	194.0	162.0	147.0	144.0
15°	423.0	416.0	403.0	385.0	316.0	237.0	170.0	110.0	79.0	65.0	67.0
17.5°	448.0	438.0	423.0	387.0	278.0	177.0	91.0	56.0	48.0	46.0	46.0
20°	474.0	461.0	446.0	365.0	229.0	102.0	52.0	42.0	39.0	36.0	37.0
22.5°	502.0	486.0	463.0	332.0	164.0	55.0	40.0	34.0	30.0	29.0	29.0
25°	532.0	509.0	480.0	294.0	95.0	42.0	33.0	27.0	24.0	23.0	22.0
27.5°	564.0	535.0	484.0	244.0	54.0	35.0	26.0	21.0	18.0	17.0	17.0
30°	593.0	561.0	475.0	181.0	41.0	29.0	21.0	16.0	14.0	14.0	14.0
32.5°	632.0	590.0	447.0	113.0	33.0	23.0	16.0	13.0	11.0	11.0	11.0
35°	683.0	633.0	419.0	60.0	27.0	19.0	13.0	10.0	9.0	9.0	9.0
37.5°	753.0	690.0	394.0	38.0	22.0	15.0	10.0	8.0	7.0	7.0	7.0
40°	825.0	758.0	359.0	29.0	18.0	12.0	8.0	6.0	5.0	5.0	6.0
42.5°	915.0	837.0	319.0	25.0	15.0	10.0	6.0	4.0	3.0	4.0	4.0
45°	1006.0	920.0	263.0	21.0	13.0	8.0	4.0	2.0	2.0	3.0	3.0
47.5°	1100.0	1008.0	204.0	18.0	11.0	6.0	3.0	1.0	1.0	2.0	2.0
50°	1197.0	1095.0	152.0	16.0	9.0	5.0	2.0	1.0	0.0	1.0	1.0
52.5°	1294.0	1179.0	118.0	14.0	8.0	4.0	1.0	0.0	0.0	0.0	1.0
55°	1384.0	1255.0	94.0	12.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1460.0	1311.0	75.0	11.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0
60°	1532.1	1355.0	58.0	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1583.1	1372.0	47.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
64°	1605.1	1374.0	41.0	7.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
65°	1618.1	1368.0	38.0	7.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1621.1	1335.0	29.0	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1533.1	1220.0	21.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1281.0	932.0	14.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	800.0	403.0	8.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	331.0	122.0	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	76.0	29.0	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	5.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	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)