

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: P595043

Luminaire Tested: **IST-PA1B-730-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-730-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3384 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

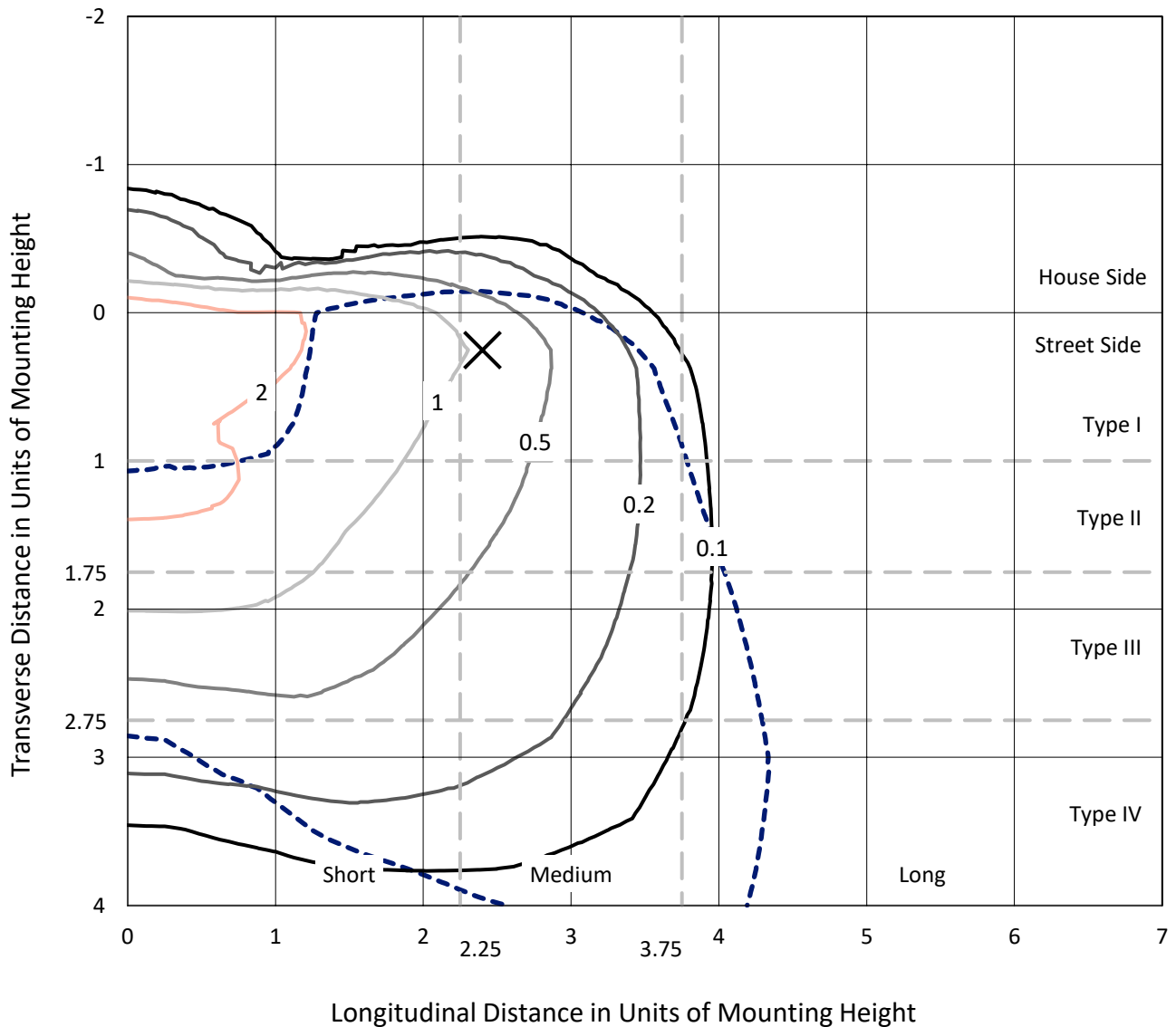
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

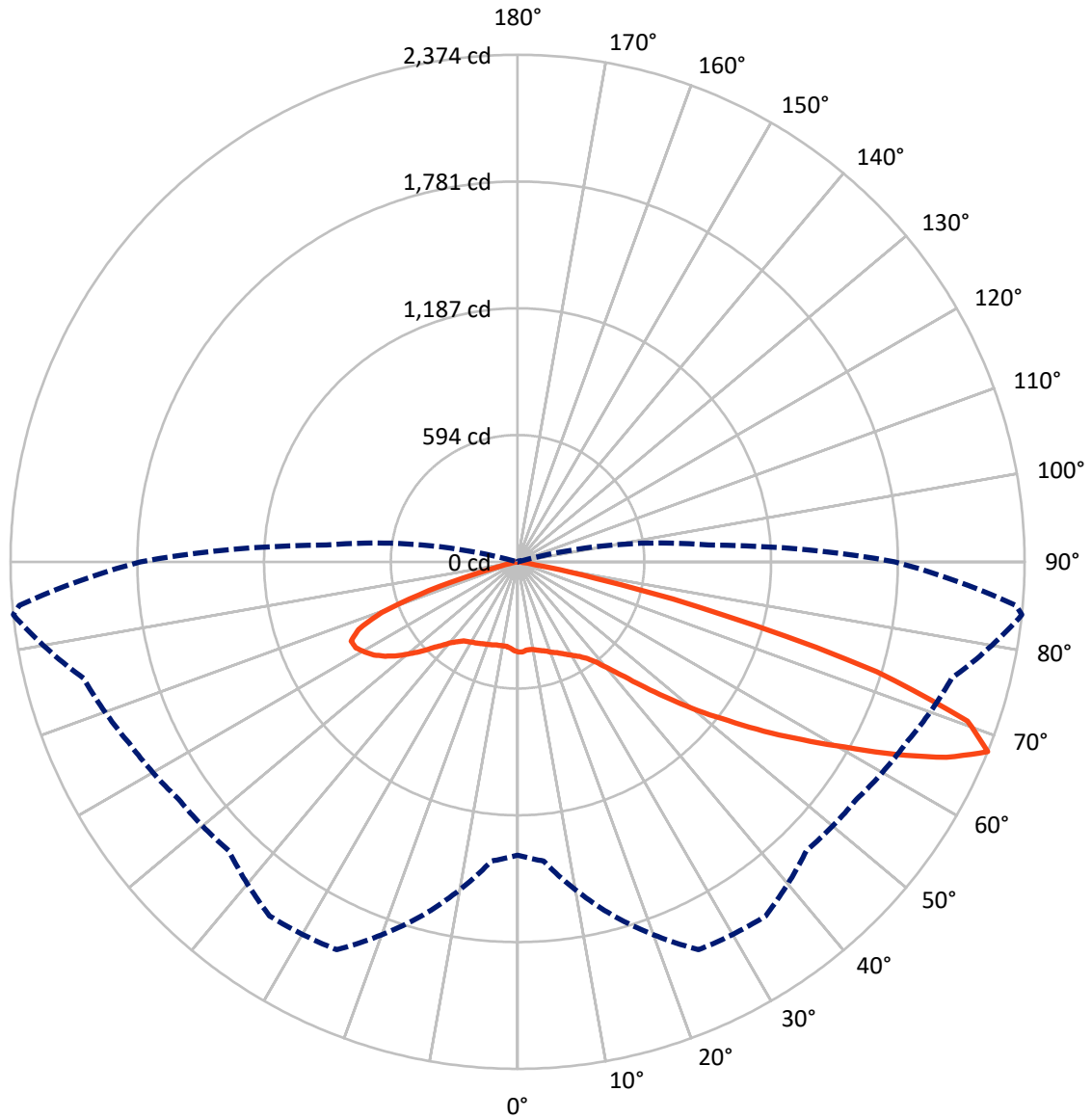
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	294.6	0.0	294.6
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3089.4	0.0	3089.4
	% Fixture	91.3	0.0	91.3
Total	Lumens	3384.0	0.0	3384.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	98.9	2.9
20°-30°	158.4	4.7
30°-40°	227.9	6.7
40°-50°	391.2	11.6
50°-60°	683.4	20.2
60°-70°	978.7	28.9
70°-80°	735.6	21.7
80°-90°	72.2	2.1
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°	3384.0	100.0
0°-180°	3384.0	100.0

Coefficient of Utilization

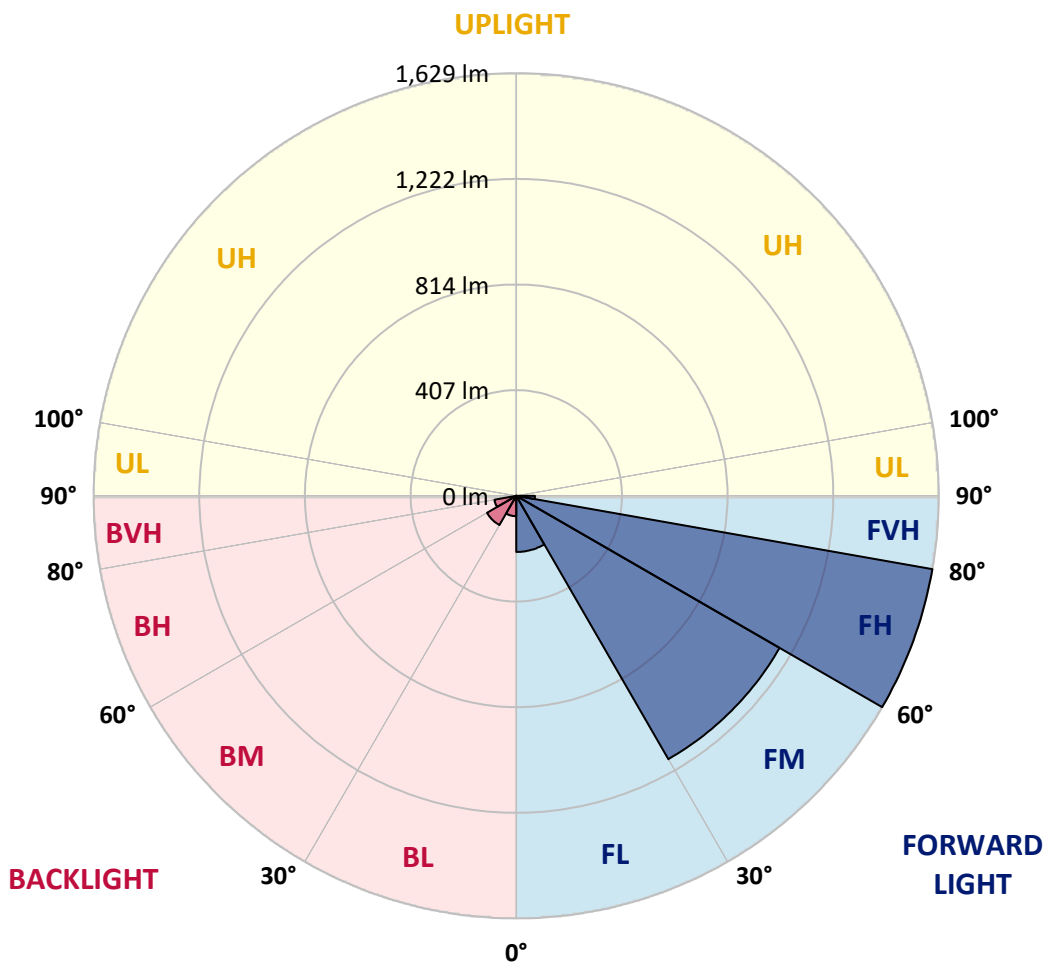


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.3	6.4			
FM (30°-60°)	1172.2	34.6			
FH (60°-80°)	1628.9	48.1			G1/1800
FVH (80°-90°)	72.0	2.1			G1/100
BL (0°-30°)	78.7	2.3	B0/110		
BM (30°-60°)	130.3	3.9	B0/220		
BH (60°-80°)	85.4	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	445.6	447.9	449.0	443.3	443.3	438.7	431.9	429.6	426.2	422.7	421.6
5°	468.5	471.9	470.7	463.9	460.5	451.3	442.2	433.0	423.9	415.9	415.9
7.5°	494.7	495.9	492.4	481.0	474.2	461.6	447.9	437.6	426.2	414.8	412.5
10°	517.6	516.4	511.9	500.4	487.9	471.9	457.0	445.6	431.9	418.2	417.0
12.5°	533.6	534.7	529.0	513.0	500.4	482.2	467.3	455.9	439.9	425.0	421.6
15°	547.3	550.7	543.9	527.9	509.6	493.6	482.2	467.3	449.0	431.9	429.6
17.5°	559.9	561.0	555.3	537.0	519.9	506.2	493.6	479.9	461.6	439.9	437.6
20°	566.7	570.1	566.7	543.9	527.9	517.6	507.3	493.6	473.0	452.5	450.2
22.5°	571.3	574.7	573.6	548.4	534.7	526.7	517.6	505.0	485.6	461.6	459.3
25°	573.6	575.9	578.1	553.0	541.6	538.1	530.1	518.7	500.4	475.3	473.0
27.5°	577.0	579.3	581.6	558.7	554.1	550.7	548.4	539.3	517.6	491.3	487.9
30°	582.7	586.1	588.4	569.0	569.0	572.4	572.4	559.9	535.9	508.4	506.2
32.5°	589.6	590.7	595.3	579.3	585.0	593.0	590.7	578.1	553.0	527.9	524.4
35°	607.8	607.8	615.8	595.3	602.1	609.0	611.3	602.1	579.3	554.1	553.0
37.5°	652.4	652.4	659.3	626.1	625.0	631.8	639.8	639.8	617.0	594.1	591.8
40°	752.9	752.9	752.9	676.4	663.8	671.8	684.4	691.3	671.8	655.8	655.8
42.5°	920.9	922.0	904.9	768.9	715.2	729.0	742.7	757.5	747.2	735.8	733.5
45°	1094.6	1088.9	1086.6	904.9	806.6	799.8	816.9	842.1	845.5	838.6	843.2
47.5°	1213.4	1219.1	1222.5	1074.0	934.6	887.8	903.8	939.2	959.8	958.6	965.5
50°	1328.8	1332.2	1335.7	1260.2	1103.7	998.6	1008.9	1056.9	1085.4	1094.6	1099.1
52.5°	1429.3	1420.2	1435.1	1424.8	1283.1	1125.4	1125.4	1180.3	1231.7	1235.1	1234.0
55°	1459.1	1464.8	1509.3	1540.2	1467.1	1280.8	1258.0	1316.2	1371.1	1399.6	1399.6
57.5°	1525.3	1531.0	1584.7	1654.4	1600.7	1433.9	1399.6	1456.8	1516.2	1571.0	1579.0
60°	1612.2	1613.3	1670.4	1776.7	1702.4	1572.2	1543.6	1608.7	1668.1	1761.8	1788.1
62.5°	1659.0	1663.6	1742.4	1881.8	1830.4	1693.3	1686.4	1745.8	1822.4	1986.9	2010.9
65°	1587.0	1616.7	1788.1	1944.6	1934.4	1806.4	1830.4	1878.4	1966.4	2207.4	2230.3
67.5°	1373.4	1406.5	1712.7	2004.1	2024.6	1912.6	1937.8	2007.5	2104.6	2374.2	2342.3
70°	1264.8	1292.2	1529.9	2037.2	2100.0	2031.5	2042.9	2108.0	2136.6	2234.9	2200.6
72.5°	958.6	987.2	1294.5	1924.1	2165.2	2156.0	2127.5	2073.8	1904.7	1758.4	1675.0
75°	423.9	457.0	861.5	1503.6	2004.1	2226.9	2076.0	1775.5	1367.6	998.6	925.5
77.5°	187.4	206.8	333.6	835.2	1505.9	1927.5	1641.9	1183.7	686.7	371.3	345.1
80°	60.6	62.8	105.1	292.5	770.1	1276.2	1005.5	569.0	211.4	86.8	81.1
82.5°	24.0	26.3	50.3	123.4	318.8	507.3	493.6	205.7	61.7	22.9	22.9
85°	6.9	8.0	25.1	65.1	113.1	142.8	174.8	68.6	33.1	6.9	6.9
87.5°	2.3	2.3	9.1	20.6	21.7	14.9	33.1	26.3	20.6	2.3	2.3
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°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6	421.6
2.5°	419.3	417.0	411.3	406.8	404.5	401.0	396.5	394.2	394.2	393.0	389.6
5°	411.3	407.9	397.6	390.8	385.0	372.5	363.3	351.9	340.5	337.1	340.5
7.5°	407.9	401.0	387.3	373.6	349.6	316.5	294.8	270.8	262.8	252.5	253.6
10°	409.0	401.0	381.6	350.8	303.9	254.8	220.5	188.5	172.5	164.5	165.7
12.5°	412.5	403.3	375.9	319.9	252.5	193.1	140.5	115.4	110.8	110.8	110.8
15°	419.3	405.6	366.8	283.4	197.7	128.0	99.4	97.1	100.5	104.0	105.1
17.5°	426.2	412.5	353.1	245.7	144.0	96.0	92.5	92.5	96.0	99.4	100.5
20°	434.2	419.3	333.6	205.7	102.8	90.3	89.1	88.0	90.3	93.7	94.8
22.5°	446.7	426.2	310.8	158.8	89.1	86.8	84.5	83.4	84.5	88.0	89.1
25°	458.2	435.3	286.8	117.7	83.4	81.1	80.0	78.8	78.8	81.1	82.3
27.5°	471.9	445.6	260.5	88.0	76.6	75.4	74.3	73.1	72.0	74.3	75.4
30°	489.0	454.7	231.9	74.3	69.7	68.6	67.4	66.3	65.1	66.3	67.4
32.5°	510.7	467.3	198.8	67.4	64.0	60.6	59.4	59.4	58.3	58.3	59.4
35°	539.3	481.0	163.4	62.8	58.3	54.8	51.4	50.3	50.3	50.3	51.4
37.5°	581.6	506.2	129.1	58.3	53.7	48.0	44.6	41.1	41.1	41.1	41.1
40°	639.8	533.6	100.5	54.8	50.3	42.3	37.7	33.1	30.8	29.7	30.8
42.5°	730.1	574.7	77.7	50.3	48.0	37.7	30.8	25.1	20.6	19.4	20.6
45°	829.5	619.3	61.7	46.8	43.4	32.0	24.0	17.1	12.6	11.4	12.6
47.5°	955.2	675.3	52.6	42.3	37.7	26.3	17.1	9.1	5.7	6.9	6.9
50°	1076.3	730.1	48.0	38.8	33.1	21.7	10.3	4.6	2.3	3.4	3.4
52.5°	1210.0	788.4	44.6	34.3	28.6	16.0	5.7	1.1	0.0	1.1	1.1
55°	1344.8	840.9	41.1	30.8	22.9	11.4	2.3	0.0	0.0	0.0	1.1
57.5°	1491.0	885.5	37.7	26.3	17.1	6.9	1.1	0.0	0.0	0.0	0.0
60°	1613.3	919.8	34.3	22.9	11.4	3.4	0.0	0.0	0.0	0.0	0.0
62.5°	1725.3	950.6	26.3	17.1	6.9	2.3	0.0	0.0	0.0	0.0	0.0
65°	1799.5	957.5	18.3	11.4	4.6	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1766.4	898.1	11.4	8.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0
70°	1552.7	754.1	8.0	4.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1086.6	486.7	6.9	3.4	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	573.6	176.0	4.6	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	203.4	38.8	2.3	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
80°	44.6	8.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	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)