

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: P595046

Luminaire Tested: **IST-PA1B-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-735-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3893 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

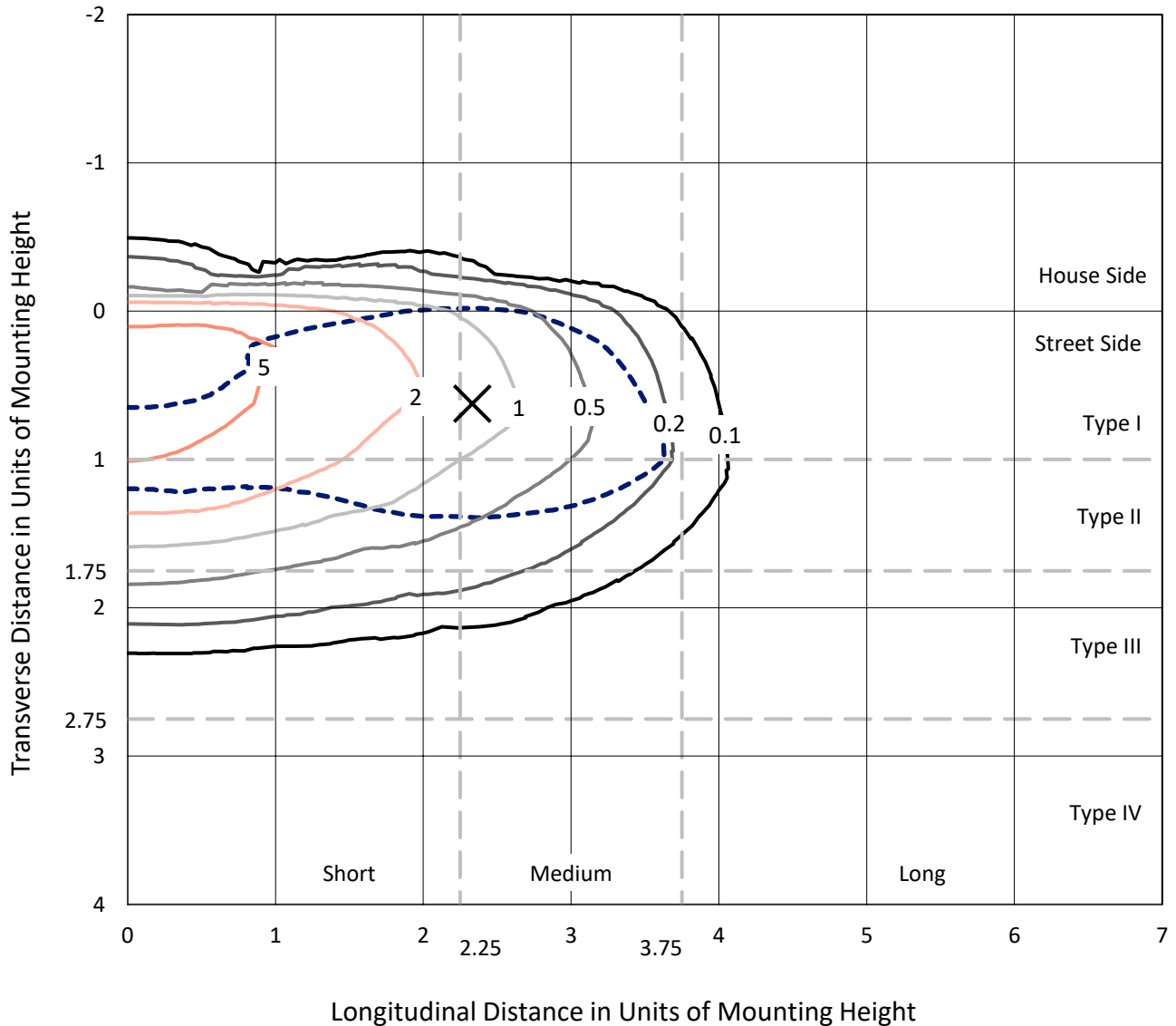
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

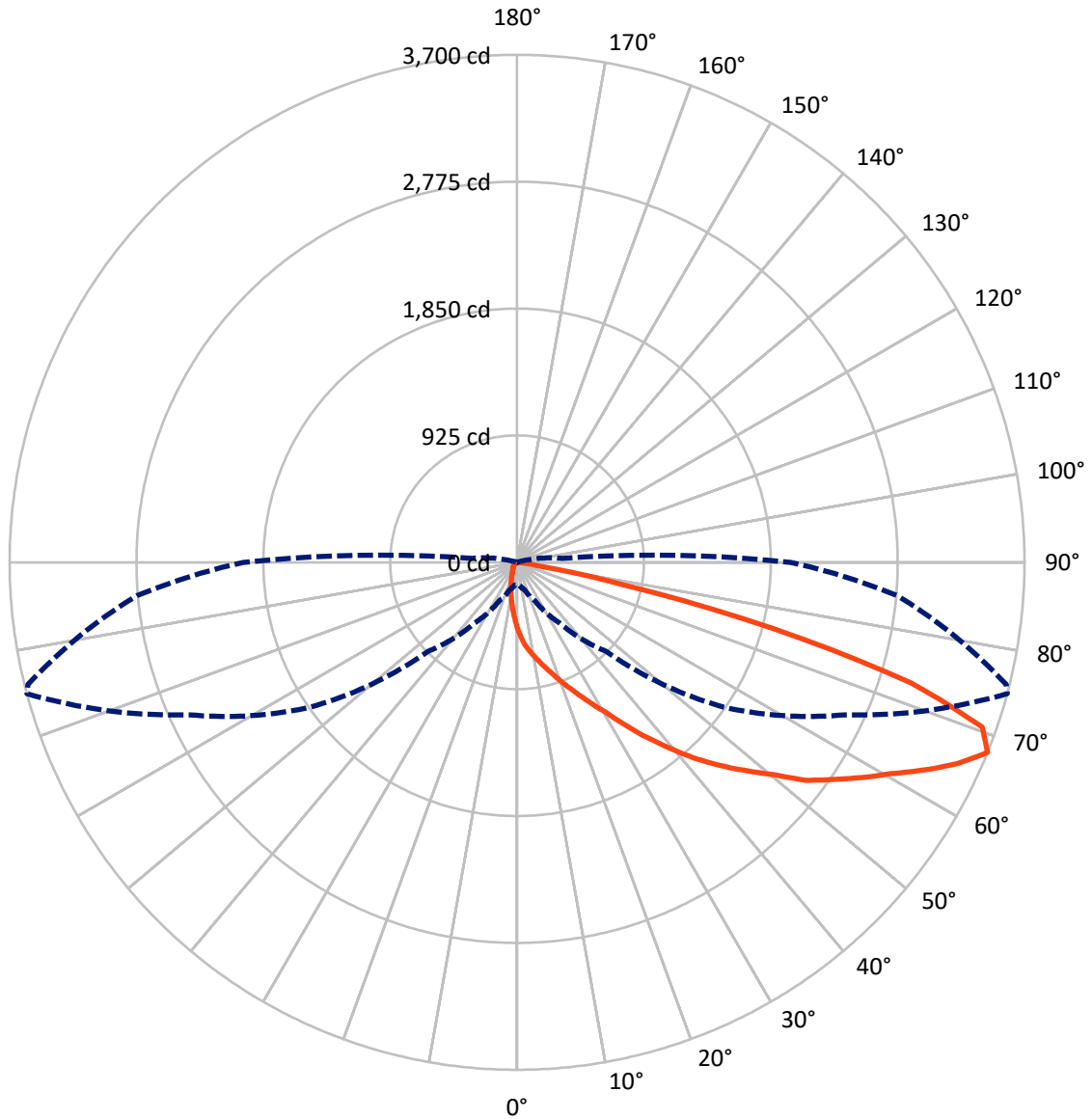
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	196.3	0.0	196.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3696.7	0.0	3696.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	3893.0	0.0	3893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	140.8	3.6
20°-30°	283.1	7.3
30°-40°	535.4	13.8
40°-50°	801.0	20.6
50°-60°	924.8	23.8
60°-70°	819.7	21.1
70°-80°	331.3	8.5
80°-90°	13.2	0.3
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°	3893.0	100.0
0°-180°	3893.0	100.0

Coefficient of Utilization

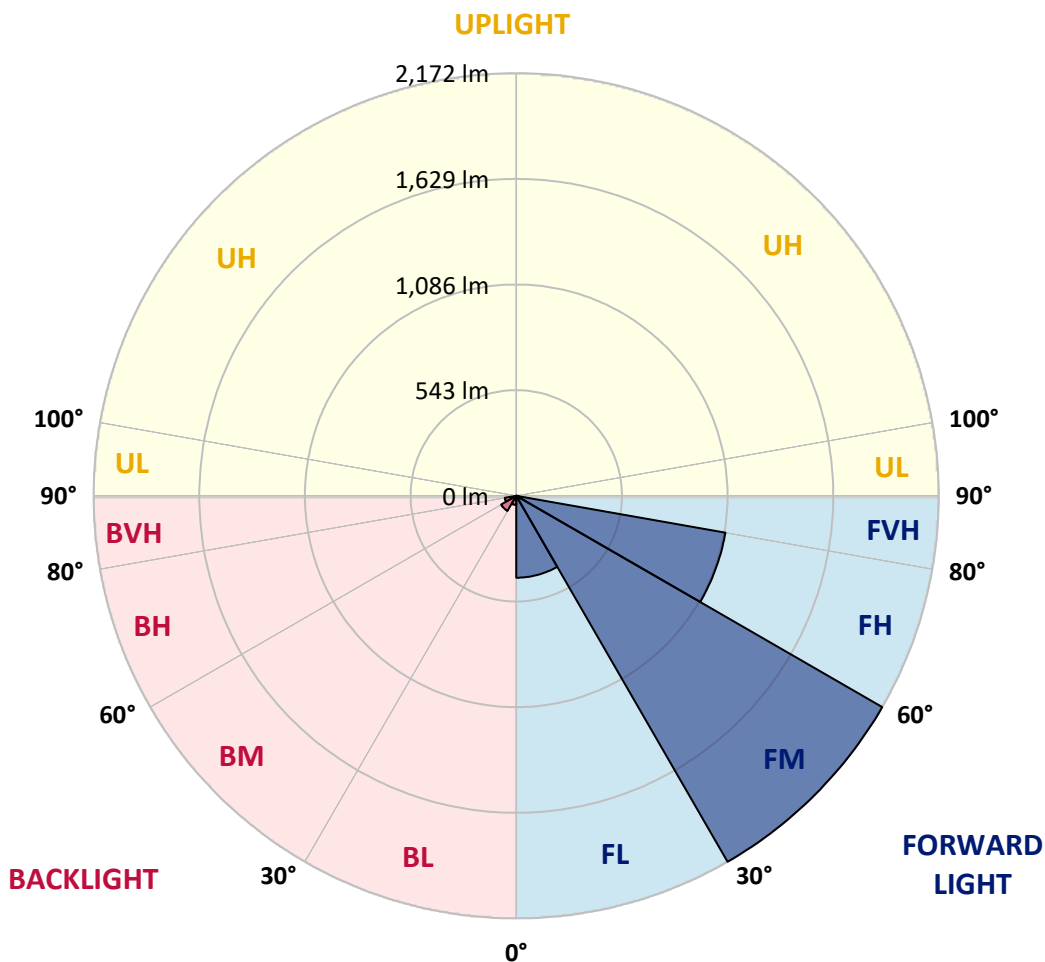


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.9	10.8			
FM (30°-60°)	2171.7	55.8			
FH (60°-80°)	1091.6	28.0			G1/1800
FVH (80°-90°)	12.6	0.3			G1/100
BL (0°-30°)	46.7	1.2	B0/110		
BM (30°-60°)	89.5	2.3	B0/220		
BH (60°-80°)	59.5	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	673.1	675.5	670.8	660.3	650.9	628.7	611.2	579.6	545.7	545.7	504.8
5°	752.6	750.3	747.9	739.7	732.7	714.0	690.7	656.8	604.2	599.5	531.7
7.5°	791.2	788.8	784.1	780.6	780.6	767.8	745.6	710.5	652.1	647.4	556.3
10°	836.7	832.1	832.1	822.7	820.4	805.2	793.5	763.1	698.8	693.0	584.3
12.5°	890.5	885.8	887.0	878.8	875.3	858.9	842.6	813.4	749.1	743.2	617.0
15°	920.9	918.5	925.5	926.7	929.1	915.0	899.8	869.5	805.2	797.0	655.6
17.5°	938.4	938.4	946.6	961.8	979.3	971.1	959.4	934.9	862.4	857.8	696.5
20°	972.3	968.8	982.8	996.8	1019.0	1026.0	1022.5	1003.8	931.4	917.4	740.9
22.5°	1028.4	1023.7	1036.6	1054.1	1081.0	1083.3	1085.6	1076.3	1001.5	987.5	787.6
25°	1160.4	1148.8	1137.1	1134.7	1145.2	1154.6	1147.6	1154.6	1081.0	1068.1	837.9
27.5°	1417.5	1397.7	1341.6	1279.6	1236.4	1244.6	1222.4	1235.2	1172.1	1155.8	884.6
30°	1664.1	1644.2	1598.7	1488.8	1389.5	1345.1	1312.4	1307.7	1265.6	1246.9	938.4
32.5°	1835.9	1823.0	1792.7	1719.0	1595.2	1481.8	1418.7	1396.5	1390.7	1361.4	1007.3
35°	1952.8	1941.1	1920.0	1860.4	1769.3	1643.1	1534.4	1485.3	1529.7	1494.7	1085.6
37.5°	2022.9	2014.7	1991.3	1950.4	1901.3	1818.4	1678.1	1599.8	1670.0	1637.2	1186.1
40°	2074.3	2053.3	2036.9	2005.3	1989.0	1962.1	1841.7	1719.0	1821.9	1788.0	1285.5
42.5°	2079.0	2069.6	2056.8	2038.1	2040.4	2057.9	2015.9	1856.9	1975.0	1943.4	1390.7
45°	2077.8	2068.5	2059.1	2040.4	2052.1	2117.5	2156.1	2001.8	2124.5	2091.8	1501.7
47.5°	2043.9	2036.9	2039.2	2039.2	2054.4	2143.2	2264.8	2149.1	2274.1	2242.6	1636.1
50°	1924.7	1931.7	1978.5	2003.0	2029.9	2144.4	2340.7	2303.3	2435.4	2413.2	1765.8
52.5°	1547.3	1587.0	1776.3	1906.0	1984.3	2121.0	2389.8	2465.8	2639.9	2606.0	1913.0
55°	1182.6	1185.0	1367.3	1668.8	1894.3	2079.0	2417.9	2575.6	2795.3	2776.6	2042.7
57.5°	959.4	958.3	1048.3	1319.4	1660.6	2012.4	2424.9	2656.3	2960.1	2925.1	2192.3
60°	784.1	779.5	833.2	1000.3	1356.8	1855.8	2399.2	2721.7	3129.6	3116.7	2348.9
62.5°	566.8	571.5	642.7	772.5	1045.9	1567.1	2344.2	2741.6	3334.1	3321.2	2524.2
65°	326.0	340.1	418.4	556.3	801.7	1225.9	2187.7	2726.4	3533.9	3532.7	2686.7
67.5°	163.6	164.8	206.8	310.9	538.7	917.4	1841.7	2630.6	3699.8	3674.1	2780.1
70°	105.2	107.5	121.5	160.1	298.0	635.7	1407.0	2359.4	3595.8	3586.5	2643.4
72.5°	80.6	83.0	94.7	105.2	155.4	361.1	952.4	1833.6	3002.2	2976.5	2061.4
75°	63.1	64.3	76.0	85.3	104.0	169.4	478.0	1142.9	1934.1	1867.5	1173.3
77.5°	50.3	51.4	57.3	67.8	79.5	94.7	141.4	514.2	786.5	702.3	381.0
80°	32.7	33.9	43.2	52.6	67.8	61.9	54.9	148.4	168.3	151.9	67.8
82.5°	18.7	19.9	29.2	42.1	51.4	35.1	31.6	43.2	39.7	38.6	21.0
85°	5.8	5.8	19.9	29.2	23.4	10.5	19.9	15.2	12.9	11.7	7.0
87.5°	1.2	1.2	9.3	10.5	3.5	1.2	2.3	3.5	4.7	5.8	3.5
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°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	485.0	461.6	418.4	381.0	344.7	313.2	291.0	271.1	257.1	253.6	247.7
5°	488.5	442.9	359.9	289.8	229.0	180.0	151.9	133.2	123.9	118.0	118.0
7.5°	492.0	424.2	305.0	211.5	144.9	109.9	92.3	84.1	80.6	79.5	78.3
10°	499.0	410.2	258.3	151.9	99.3	83.0	76.0	72.5	70.1	68.9	68.9
12.5°	510.7	398.5	215.0	112.2	81.8	73.6	68.9	64.3	61.9	60.8	60.8
15°	525.9	390.3	177.6	90.0	74.8	66.6	60.8	56.1	52.6	51.4	51.4
17.5°	546.9	384.5	146.1	79.5	68.9	59.6	52.6	47.9	44.4	43.2	43.2
20°	567.9	384.5	120.4	73.6	63.1	52.6	45.6	39.7	36.2	35.1	35.1
22.5°	596.0	383.3	100.5	67.8	56.1	45.6	38.6	31.6	29.2	28.0	28.0
25°	619.4	383.3	86.5	61.9	49.1	39.7	31.6	25.7	23.4	22.2	22.2
27.5°	647.4	379.8	73.6	54.9	42.1	32.7	25.7	21.0	18.7	17.5	17.5
30°	672.0	375.1	65.4	49.1	36.2	26.9	21.0	16.4	15.2	15.2	15.2
32.5°	712.9	371.6	58.4	42.1	30.4	22.2	16.4	12.9	11.7	11.7	11.7
35°	761.9	371.6	53.8	36.2	25.7	18.7	12.9	10.5	9.3	9.3	9.3
37.5°	826.2	375.1	47.9	31.6	21.0	15.2	10.5	8.2	7.0	7.0	7.0
40°	894.0	383.3	43.2	28.0	18.7	11.7	8.2	5.8	4.7	5.8	5.8
42.5°	974.6	391.5	38.6	24.5	15.2	9.3	5.8	3.5	2.3	3.5	3.5
45°	1054.1	399.7	36.2	21.0	12.9	7.0	3.5	2.3	1.2	2.3	2.3
47.5°	1152.3	419.5	33.9	18.7	10.5	5.8	2.3	1.2	0.0	1.2	1.2
50°	1265.6	441.7	30.4	15.2	8.2	4.7	2.3	0.0	0.0	0.0	0.0
52.5°	1374.3	460.4	26.9	12.9	7.0	3.5	1.2	0.0	0.0	0.0	0.0
55°	1483.0	472.1	23.4	10.5	5.8	3.5	1.2	0.0	0.0	0.0	0.0
57.5°	1599.8	479.1	21.0	9.3	4.7	2.3	1.2	0.0	0.0	0.0	0.0
60°	1729.6	479.1	17.5	8.2	3.5	2.3	1.2	0.0	0.0	0.0	0.0
62.5°	1873.3	465.1	16.4	7.0	3.5	2.3	1.2	0.0	0.0	0.0	0.0
65°	1990.2	414.9	14.0	5.8	3.5	2.3	1.2	0.0	0.0	0.0	0.0
67.5°	1994.8	328.4	12.9	4.7	3.5	2.3	1.2	0.0	0.0	0.0	0.0
70°	1778.6	224.4	10.5	3.5	2.3	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	1331.1	120.4	9.3	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
75°	717.5	46.7	5.8	3.5	2.3	1.2	1.2	0.0	0.0	0.0	0.0
77.5°	209.2	23.4	3.5	2.3	2.3	1.2	1.2	0.0	0.0	0.0	0.0
80°	38.6	11.7	2.3	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	10.5	4.7	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.3	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.2	1.2	1.2	1.2	1.2	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)