

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: P595037

Luminaire Tested: **IST-PA1B-730-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595037  
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-730-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3000K, 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: 3805 lumens  
Efficiency: N/A  
Efficacy: 104.5 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

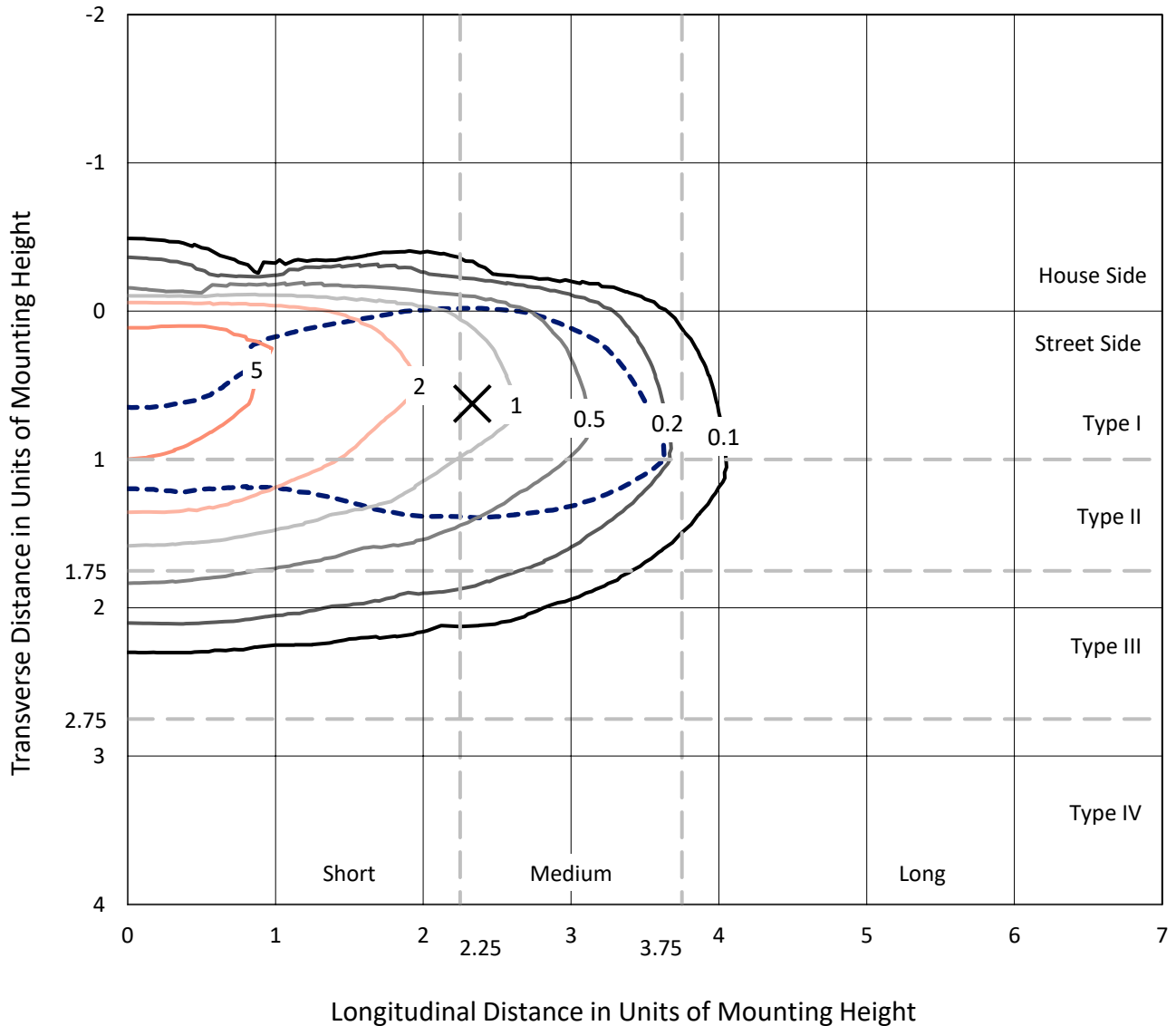
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

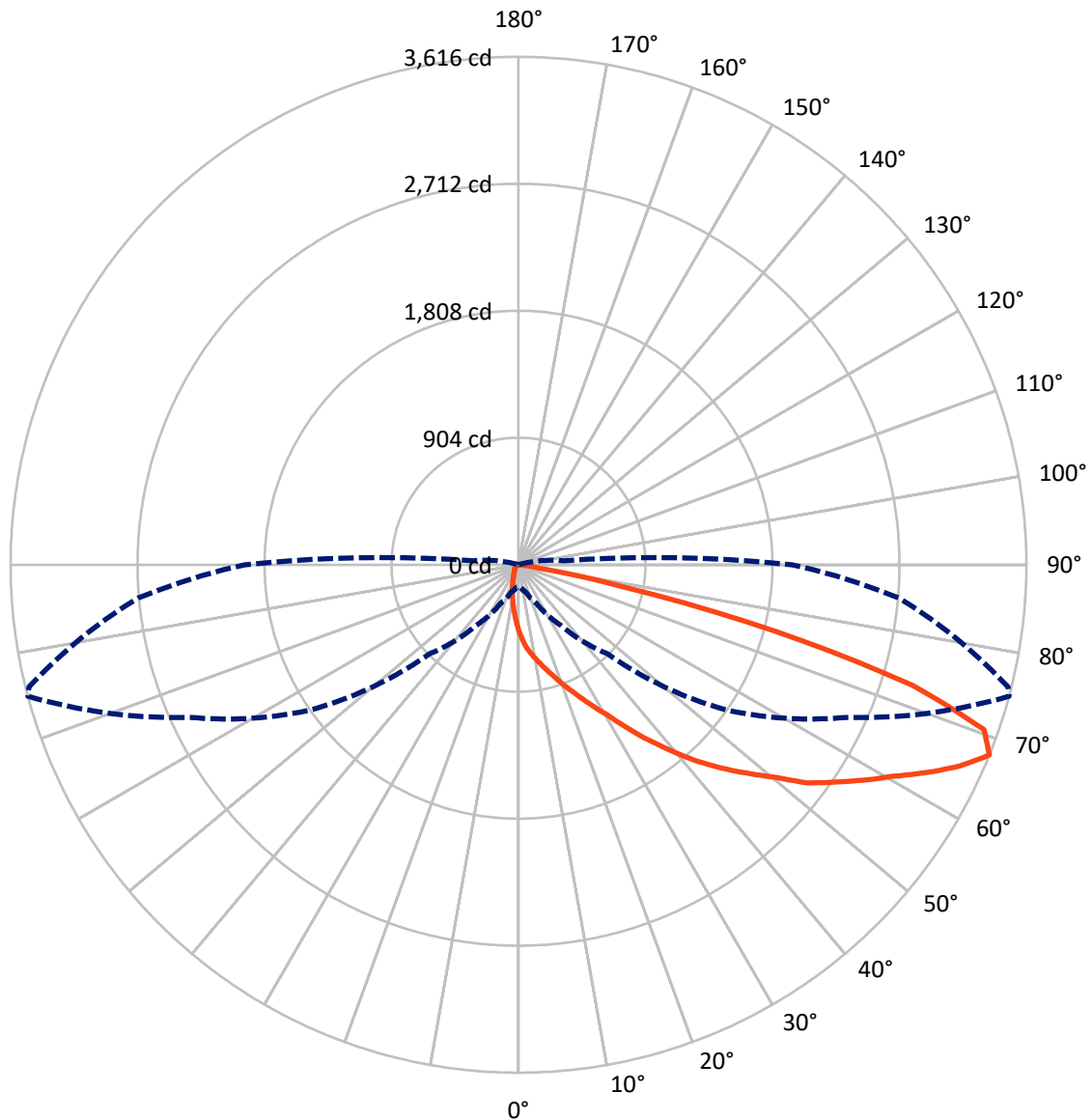
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.5 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
<b>House Side</b>	Lumens	191.8	0.0	191.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	3613.2	0.0	3613.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	3805.0	0.0	3805.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	1.1
10°-20°	137.6	3.6
20°-30°	276.7	7.3
30°-40°	523.3	13.8
40°-50°	782.9	20.6
50°-60°	903.9	23.8
60°-70°	801.2	21.1
70°-80°	323.8	8.5
80°-90°	12.9	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°	3805.0	100.0
0°-180°	3805.0	100.0

**Coefficient of Utilization**

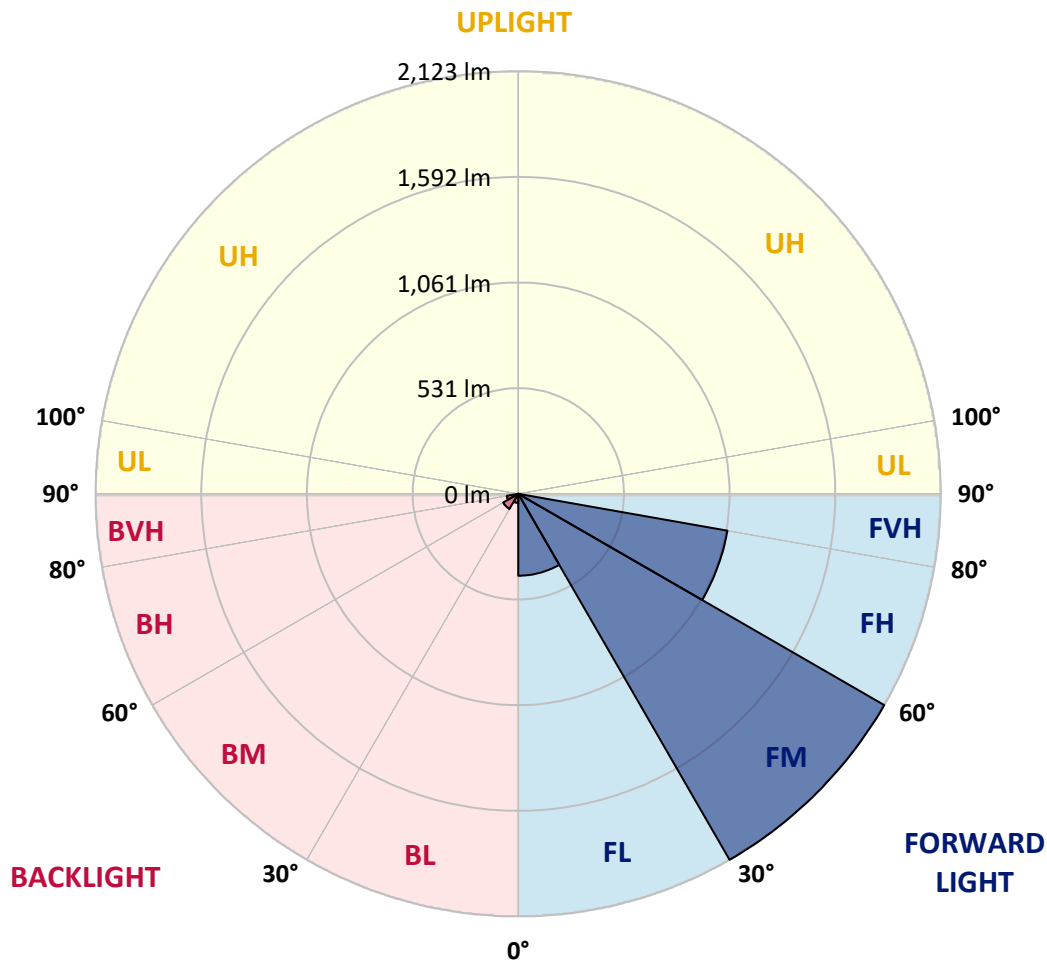


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.4	10.8			
FM (30°-60°)	2122.6	55.8			
FH (60°-80°)	1066.9	28.0			G1/1800
FVH (80°-90°)	12.4	0.3			G1/100
BL (0°-30°)	45.6	1.2	B0/110		
BM (30°-60°)	87.5	2.3	B0/220		
BH (60°-80°)	58.2	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°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	657.9	660.2	655.6	645.3	636.2	614.5	597.4	566.5	533.4	533.4	493.4
5°	735.6	733.3	731.0	723.0	716.2	697.9	675.0	641.9	590.5	585.9	519.7
7.5°	773.3	771.0	766.4	763.0	763.0	750.4	728.7	694.5	637.3	632.8	543.7
10°	817.8	813.2	813.2	804.1	801.8	787.0	775.6	745.9	683.0	677.3	571.1
12.5°	870.4	865.8	866.9	858.9	855.5	839.5	823.5	795.0	732.2	726.4	603.1
15°	900.1	897.8	904.6	905.8	908.1	894.3	879.5	849.8	787.0	779.0	640.8
17.5°	917.2	917.2	925.2	940.0	957.2	949.2	937.7	913.8	842.9	838.4	680.8
20°	950.3	946.9	960.6	974.3	996.0	1002.9	999.4	981.2	910.3	896.6	724.2
22.5°	1005.1	1000.6	1013.1	1030.3	1056.5	1058.8	1061.1	1052.0	978.9	965.2	769.8
25°	1134.2	1122.8	1111.4	1109.1	1119.4	1128.5	1121.6	1128.5	1056.5	1044.0	819.0
27.5°	1385.5	1366.1	1311.2	1250.7	1208.4	1216.4	1194.7	1207.3	1145.6	1129.6	864.6
30°	1626.5	1607.1	1562.5	1455.2	1358.1	1314.7	1282.7	1278.1	1237.0	1218.7	917.2
32.5°	1794.4	1781.8	1752.1	1680.2	1559.1	1448.3	1386.6	1364.9	1359.2	1330.7	984.6
35°	1908.6	1897.2	1876.6	1818.4	1729.3	1605.9	1499.7	1451.7	1495.1	1460.9	1061.1
37.5°	1977.2	1969.2	1946.3	1906.3	1858.4	1777.3	1640.2	1563.7	1632.2	1600.2	1159.3
40°	2027.4	2006.8	1990.9	1960.0	1944.0	1917.8	1800.1	1680.2	1780.7	1747.6	1256.4
42.5°	2032.0	2022.8	2010.3	1992.0	1994.3	2011.4	1970.3	1815.0	1930.3	1899.5	1359.2
45°	2030.8	2021.7	2012.6	1994.3	2005.7	2069.7	2107.4	1956.6	2076.5	2044.5	1467.7
47.5°	1997.7	1990.9	1993.1	1993.1	2008.0	2094.8	2213.6	2100.5	2222.7	2191.9	1599.1
50°	1881.2	1888.1	1933.7	1957.7	1984.0	2095.9	2287.8	2251.3	2380.3	2358.6	1725.9
52.5°	1512.3	1551.1	1736.1	1862.9	1939.5	2073.1	2335.8	2410.0	2580.2	2547.1	1869.8
55°	1155.9	1158.2	1336.4	1631.1	1851.5	2032.0	2363.2	2517.4	2732.1	2713.9	1996.6
57.5°	937.7	936.6	1024.6	1289.5	1623.1	1966.9	2370.1	2596.2	2893.2	2858.9	2142.8
60°	766.4	761.8	814.4	977.7	1326.1	1813.8	2344.9	2660.2	3058.8	3046.3	2295.8
62.5°	554.0	558.5	628.2	755.0	1022.3	1531.7	2291.3	2679.6	3258.7	3246.1	2467.2
65°	318.7	332.4	408.9	543.7	783.6	1198.2	2138.2	2664.8	3454.0	3452.9	2625.9
67.5°	159.9	161.1	202.2	303.8	526.6	896.6	1800.1	2571.1	3616.2	3591.1	2717.3
70°	102.8	105.1	118.8	156.5	291.3	621.4	1375.2	2306.1	3514.6	3505.4	2583.7
72.5°	78.8	81.1	92.5	102.8	151.9	352.9	930.9	1792.1	2934.3	2909.2	2014.8
75°	61.7	62.8	74.2	83.4	101.7	165.6	467.2	1117.1	1890.3	1825.2	1146.8
77.5°	49.1	50.3	56.0	66.2	77.7	92.5	138.2	502.6	768.7	686.5	372.4
80°	32.0	33.1	42.3	51.4	66.2	60.5	53.7	145.1	164.5	148.5	66.2
82.5°	18.3	19.4	28.6	41.1	50.3	34.3	30.8	42.3	38.8	37.7	20.6
85°	5.7	5.7	19.4	28.6	22.8	10.3	19.4	14.8	12.6	11.4	6.9
87.5°	1.1	1.1	9.1	10.3	3.4	1.1	2.3	3.4	4.6	5.7	3.4
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°	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9	472.9
2.5°	474.0	451.2	408.9	372.4	336.9	306.1	284.4	265.0	251.3	247.9	242.1
5°	477.4	432.9	351.8	283.3	223.9	175.9	148.5	130.2	121.1	115.4	115.4
7.5°	480.9	414.6	298.1	206.7	141.6	107.4	90.2	82.2	78.8	77.7	76.5
10°	487.7	400.9	252.4	148.5	97.1	81.1	74.2	70.8	68.5	67.4	67.4
12.5°	499.1	389.5	210.2	109.7	80.0	72.0	67.4	62.8	60.5	59.4	59.4
15°	514.0	381.5	173.6	87.9	73.1	65.1	59.4	54.8	51.4	50.3	50.3
17.5°	534.6	375.8	142.8	77.7	67.4	58.3	51.4	46.8	43.4	42.3	42.3
20°	555.1	375.8	117.6	72.0	61.7	51.4	44.5	38.8	35.4	34.3	34.3
22.5°	582.5	374.6	98.2	66.2	54.8	44.5	37.7	30.8	28.6	27.4	27.4
25°	605.4	374.6	84.5	60.5	48.0	38.8	30.8	25.1	22.8	21.7	21.7
27.5°	632.8	371.2	72.0	53.7	41.1	32.0	25.1	20.6	18.3	17.1	17.1
30°	656.8	366.6	64.0	48.0	35.4	26.3	20.6	16.0	14.8	14.8	14.8
32.5°	696.7	363.2	57.1	41.1	29.7	21.7	16.0	12.6	11.4	11.4	11.4
35°	744.7	363.2	52.5	35.4	25.1	18.3	12.6	10.3	9.1	9.1	9.1
37.5°	807.5	366.6	46.8	30.8	20.6	14.8	10.3	8.0	6.9	6.9	6.9
40°	873.8	374.6	42.3	27.4	18.3	11.4	8.0	5.7	4.6	5.7	5.7
42.5°	952.6	382.6	37.7	24.0	14.8	9.1	5.7	3.4	2.3	3.4	3.4
45°	1030.3	390.6	35.4	20.6	12.6	6.9	3.4	2.3	1.1	2.3	2.3
47.5°	1126.2	410.1	33.1	18.3	10.3	5.7	2.3	1.1	0.0	1.1	1.1
50°	1237.0	431.8	29.7	14.8	8.0	4.6	2.3	0.0	0.0	0.0	0.0
52.5°	1343.2	450.0	26.3	12.6	6.9	3.4	1.1	0.0	0.0	0.0	0.0
55°	1449.5	461.4	22.8	10.3	5.7	3.4	1.1	0.0	0.0	0.0	0.0
57.5°	1563.7	468.3	20.6	9.1	4.6	2.3	1.1	0.0	0.0	0.0	0.0
60°	1690.5	468.3	17.1	8.0	3.4	2.3	1.1	0.0	0.0	0.0	0.0
62.5°	1831.0	454.6	16.0	6.9	3.4	2.3	1.1	0.0	0.0	0.0	0.0
65°	1945.2	405.5	13.7	5.7	3.4	2.3	1.1	0.0	0.0	0.0	0.0
67.5°	1949.7	321.0	12.6	4.6	3.4	2.3	1.1	0.0	0.0	0.0	0.0
70°	1738.4	219.3	10.3	3.4	2.3	2.3	1.1	0.0	0.0	0.0	0.0
72.5°	1301.0	117.6	9.1	3.4	2.3	1.1	1.1	0.0	0.0	0.0	0.0
75°	701.3	45.7	5.7	3.4	2.3	1.1	1.1	0.0	0.0	0.0	0.0
77.5°	204.5	22.8	3.4	2.3	2.3	1.1	1.1	0.0	0.0	0.0	0.0
80°	37.7	11.4	2.3	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	10.3	4.6	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.3	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	1.1	1.1	1.1	1.1	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)