

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: P594047

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594047
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: ISC-PA1B-730-U-T2R-HSS
Description: IMPACT ELITE LED CYLINDER 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: 4034 lumens
Efficiency: N/A
Efficacy: 110.8 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

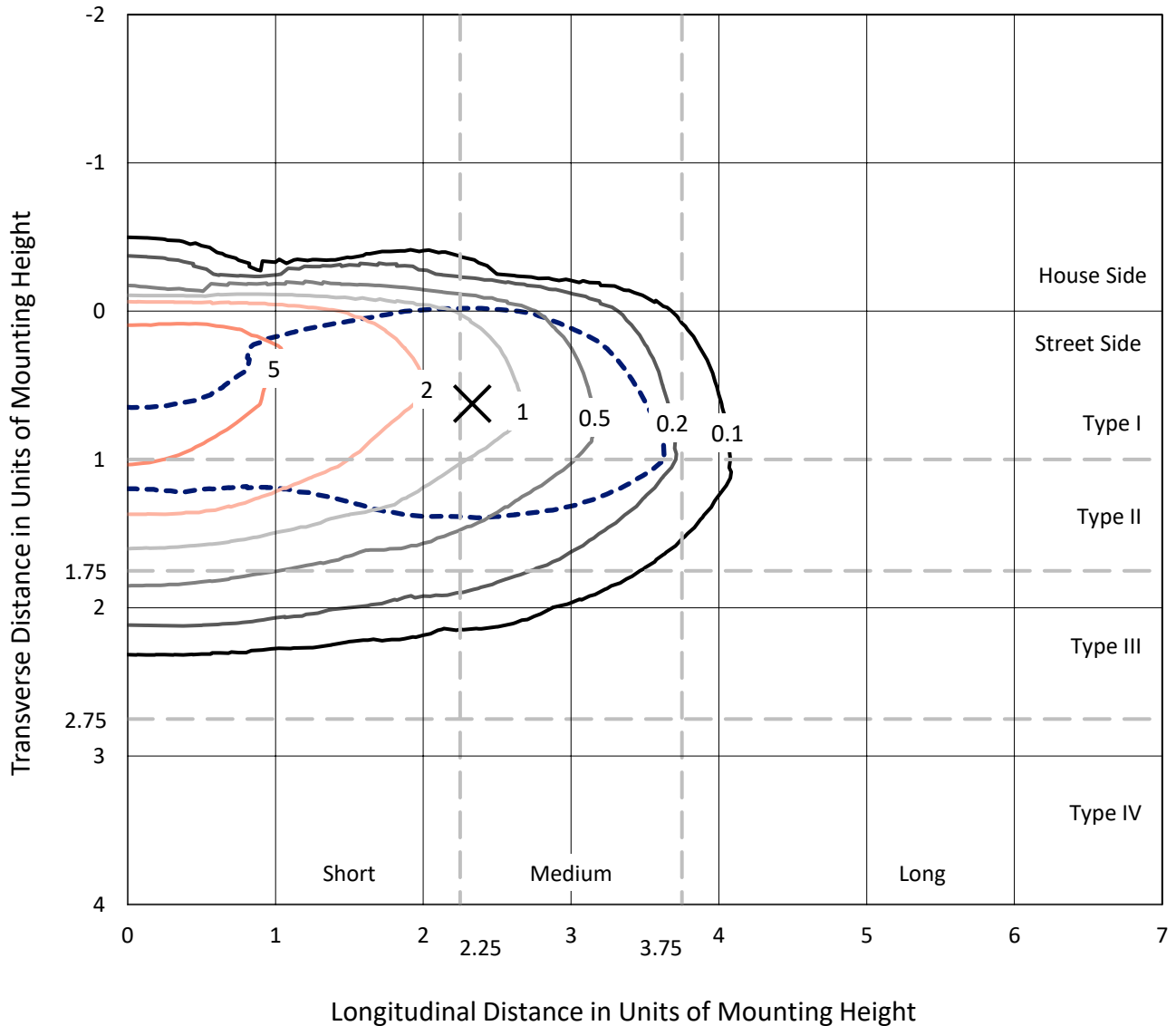
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

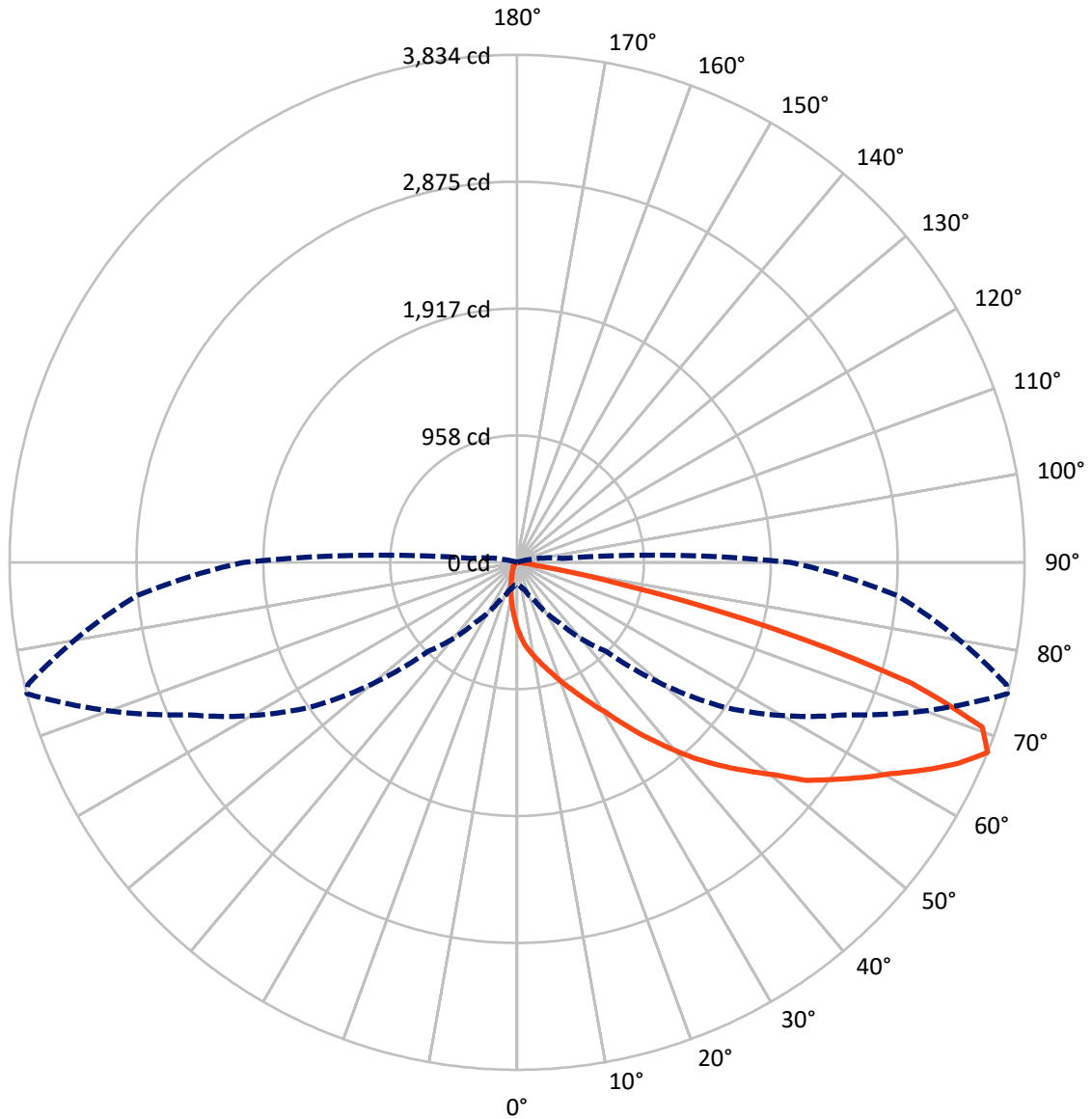
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.9 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	203.4	0.0	203.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3830.6	0.0	3830.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	4034.0	0.0	4034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	1.1
10°-20°	145.9	3.6
20°-30°	293.3	7.3
30°-40°	554.8	13.8
40°-50°	830.0	20.6
50°-60°	958.3	23.8
60°-70°	849.4	21.1
70°-80°	343.3	8.5
80°-90°	13.7	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°	4034.0	100.0
0°-180°	4034.0	100.0

Coefficient of Utilization



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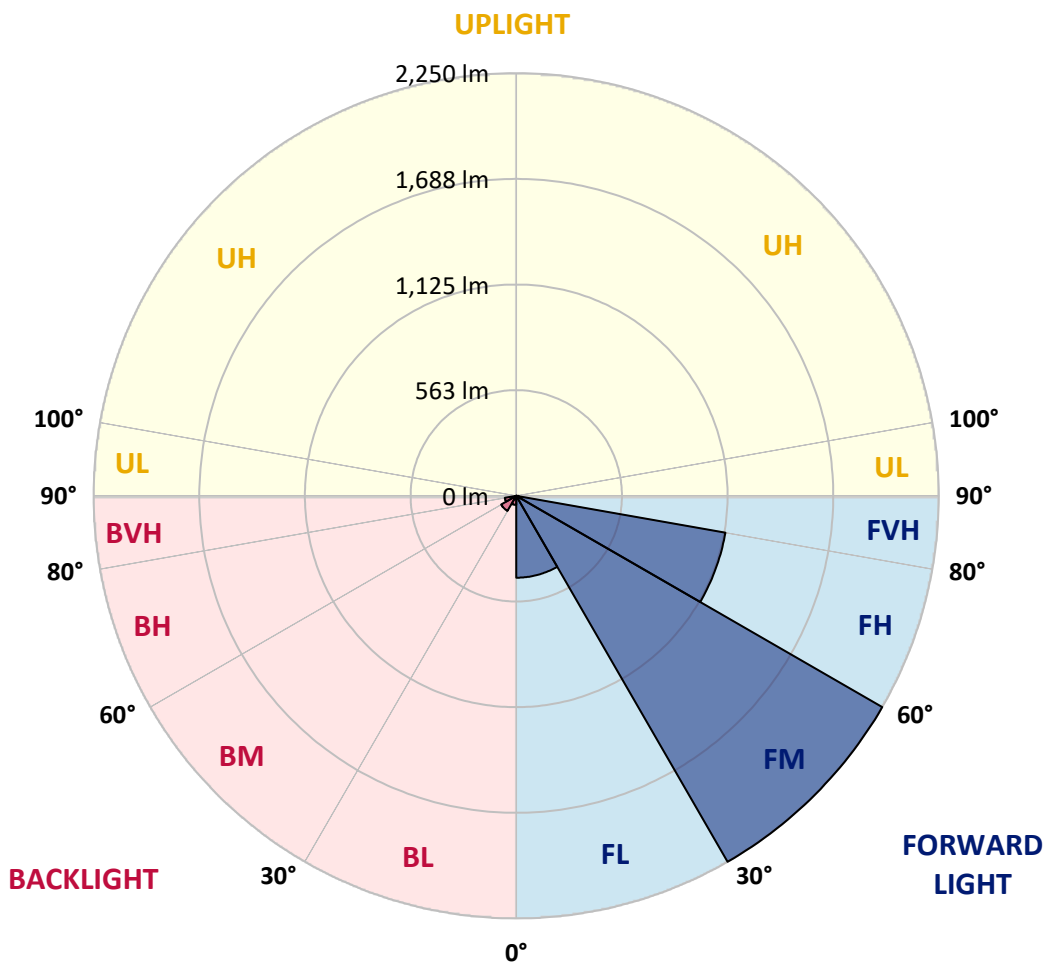
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	436.1	10.8			
FM (30°-60°)	2250.3	55.8			
FH (60°-80°)	1131.1	28.0			G1/1800
FVH (80°-90°)	13.1	0.3			G1/100
BL (0°-30°)	48.3	1.2	B0/110		
BM (30°-60°)	92.8	2.3	B0/220		
BH (60°-80°)	61.7	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°	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3
2.5°	697.5	699.9	695.1	684.2	674.5	651.5	633.3	600.6	565.5	565.5	523.1
5°	779.8	777.4	775.0	766.5	759.3	739.9	715.7	680.6	626.1	621.2	551.0
7.5°	819.8	817.4	812.5	808.9	808.9	795.6	772.6	736.3	675.7	670.9	576.4
10°	867.0	862.2	862.2	852.5	850.1	834.3	822.2	790.7	724.1	718.1	605.5
12.5°	922.7	917.9	919.1	910.6	907.0	890.0	873.1	842.8	776.2	770.2	639.4
15°	954.2	951.8	959.1	960.3	962.7	948.2	932.4	900.9	834.3	825.9	679.3
17.5°	972.4	972.4	980.9	996.6	1014.8	1006.3	994.2	968.8	893.7	888.8	721.7
20°	1007.5	1003.9	1018.4	1032.9	1055.9	1063.2	1059.6	1040.2	965.1	950.6	767.7
22.5°	1065.6	1060.8	1074.1	1092.3	1120.1	1122.5	1125.0	1115.3	1037.8	1023.2	816.2
25°	1202.5	1190.4	1178.2	1175.8	1186.7	1196.4	1189.1	1196.4	1120.1	1106.8	868.2
27.5°	1468.9	1448.3	1390.2	1326.0	1281.2	1289.7	1266.6	1280.0	1214.6	1197.6	916.7
30°	1724.4	1703.8	1656.6	1542.7	1439.8	1393.8	1359.9	1355.0	1311.5	1292.1	972.4
32.5°	1902.4	1889.1	1857.6	1781.3	1652.9	1535.5	1470.1	1447.1	1441.0	1410.8	1043.8
35°	2023.5	2011.4	1989.6	1927.8	1833.4	1702.6	1590.0	1539.1	1585.1	1548.8	1125.0
37.5°	2096.1	2087.7	2063.4	2021.1	1970.2	1884.2	1738.9	1657.8	1730.4	1696.5	1229.1
40°	2149.4	2127.6	2110.7	2078.0	2061.0	2033.2	1908.4	1781.3	1887.9	1852.7	1332.0
42.5°	2154.3	2144.6	2131.3	2111.9	2114.3	2132.5	2088.9	1924.2	2046.5	2013.8	1441.0
45°	2153.1	2143.4	2133.7	2114.3	2126.4	2194.2	2234.2	2074.3	2201.5	2167.6	1556.1
47.5°	2117.9	2110.7	2113.1	2113.1	2128.8	2220.9	2346.8	2226.9	2356.5	2323.8	1695.3
50°	1994.4	2001.7	2050.1	2075.6	2103.4	2222.1	2425.5	2386.8	2523.6	2500.6	1829.7
52.5°	1603.3	1644.5	1840.6	1975.1	2056.2	2197.9	2476.4	2555.1	2735.5	2700.4	1982.3
55°	1225.5	1227.9	1416.8	1729.2	1962.9	2154.3	2505.4	2668.9	2896.6	2877.2	2116.7
57.5°	994.2	993.0	1086.2	1367.2	1720.8	2085.2	2512.7	2752.5	3067.3	3031.0	2271.7
60°	812.5	807.7	863.4	1036.6	1405.9	1923.0	2486.1	2820.3	3242.9	3229.6	2434.0
62.5°	587.3	592.2	666.0	800.4	1083.8	1623.9	2429.2	2840.9	3454.8	3441.5	2615.6
65°	337.9	352.4	433.5	576.4	830.7	1270.3	2266.9	2825.1	3661.9	3660.7	2784.0
67.5°	169.5	170.7	214.3	322.1	558.2	950.6	1908.4	2725.8	3833.8	3807.2	2880.8
70°	109.0	111.4	125.9	165.9	308.8	658.8	1458.0	2444.9	3726.1	3716.4	2739.2
72.5°	83.6	86.0	98.1	109.0	161.1	374.2	986.9	1900.0	3110.9	3084.3	2136.1
75°	65.4	66.6	78.7	88.4	107.8	175.6	495.3	1184.3	2004.1	1935.1	1215.8
77.5°	52.1	53.3	59.3	70.2	82.3	98.1	146.5	532.8	815.0	727.8	394.8
80°	33.9	35.1	44.8	54.5	70.2	64.2	56.9	153.8	174.4	157.4	70.2
82.5°	19.4	20.6	30.3	43.6	53.3	36.3	32.7	44.8	41.2	40.0	21.8
85°	6.1	6.1	20.6	30.3	24.2	10.9	20.6	15.7	13.3	12.1	7.3
87.5°	1.2	1.2	9.7	10.9	3.6	1.2	2.4	3.6	4.8	6.1	3.6
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°	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3	501.3
2.5°	502.5	478.3	433.5	394.8	357.2	324.5	301.5	280.9	266.4	262.8	256.7
5°	506.2	458.9	373.0	300.3	237.3	186.5	157.4	138.0	128.4	122.3	122.3
7.5°	509.8	439.6	316.1	219.2	150.2	113.8	95.7	87.2	83.6	82.3	81.1
10°	517.1	425.0	267.6	157.4	102.9	86.0	78.7	75.1	72.7	71.4	71.4
12.5°	529.2	412.9	222.8	116.3	84.8	76.3	71.4	66.6	64.2	63.0	63.0
15°	544.9	404.5	184.1	93.2	77.5	69.0	63.0	58.1	54.5	53.3	53.3
17.5°	566.7	398.4	151.4	82.3	71.4	61.8	54.5	49.6	46.0	44.8	44.8
20°	588.5	398.4	124.7	76.3	65.4	54.5	47.2	41.2	37.5	36.3	36.3
22.5°	617.6	397.2	104.1	70.2	58.1	47.2	40.0	32.7	30.3	29.1	29.1
25°	641.8	397.2	89.6	64.2	50.9	41.2	32.7	26.6	24.2	23.0	23.0
27.5°	670.9	393.6	76.3	56.9	43.6	33.9	26.6	21.8	19.4	18.2	18.2
30°	696.3	388.7	67.8	50.9	37.5	27.9	21.8	17.0	15.7	15.7	15.7
32.5°	738.7	385.1	60.5	43.6	31.5	23.0	17.0	13.3	12.1	12.1	12.1
35°	789.5	385.1	55.7	37.5	26.6	19.4	13.3	10.9	9.7	9.7	9.7
37.5°	856.1	388.7	49.6	32.7	21.8	15.7	10.9	8.5	7.3	7.3	7.3
40°	926.4	397.2	44.8	29.1	19.4	12.1	8.5	6.1	4.8	6.1	6.1
42.5°	1009.9	405.7	40.0	25.4	15.7	9.7	6.1	3.6	2.4	3.6	3.6
45°	1092.3	414.1	37.5	21.8	13.3	7.3	3.6	2.4	1.2	2.4	2.4
47.5°	1194.0	434.7	35.1	19.4	10.9	6.1	2.4	1.2	0.0	1.2	1.2
50°	1311.5	457.7	31.5	15.7	8.5	4.8	2.4	0.0	0.0	0.0	0.0
52.5°	1424.1	477.1	27.9	13.3	7.3	3.6	1.2	0.0	0.0	0.0	0.0
55°	1536.7	489.2	24.2	10.9	6.1	3.6	1.2	0.0	0.0	0.0	0.0
57.5°	1657.8	496.5	21.8	9.7	4.8	2.4	1.2	0.0	0.0	0.0	0.0
60°	1792.2	496.5	18.2	8.5	3.6	2.4	1.2	0.0	0.0	0.0	0.0
62.5°	1941.1	482.0	17.0	7.3	3.6	2.4	1.2	0.0	0.0	0.0	0.0
65°	2062.2	429.9	14.5	6.1	3.6	2.4	1.2	0.0	0.0	0.0	0.0
67.5°	2067.1	340.3	13.3	4.8	3.6	2.4	1.2	0.0	0.0	0.0	0.0
70°	1843.1	232.5	10.9	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1379.3	124.7	9.7	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
75°	743.5	48.4	6.1	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
77.5°	216.8	24.2	3.6	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0
80°	40.0	12.1	2.4	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	10.9	4.8	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	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)