

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: P595176

Luminaire Tested: **IST-PA1C-830-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-830-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3871 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

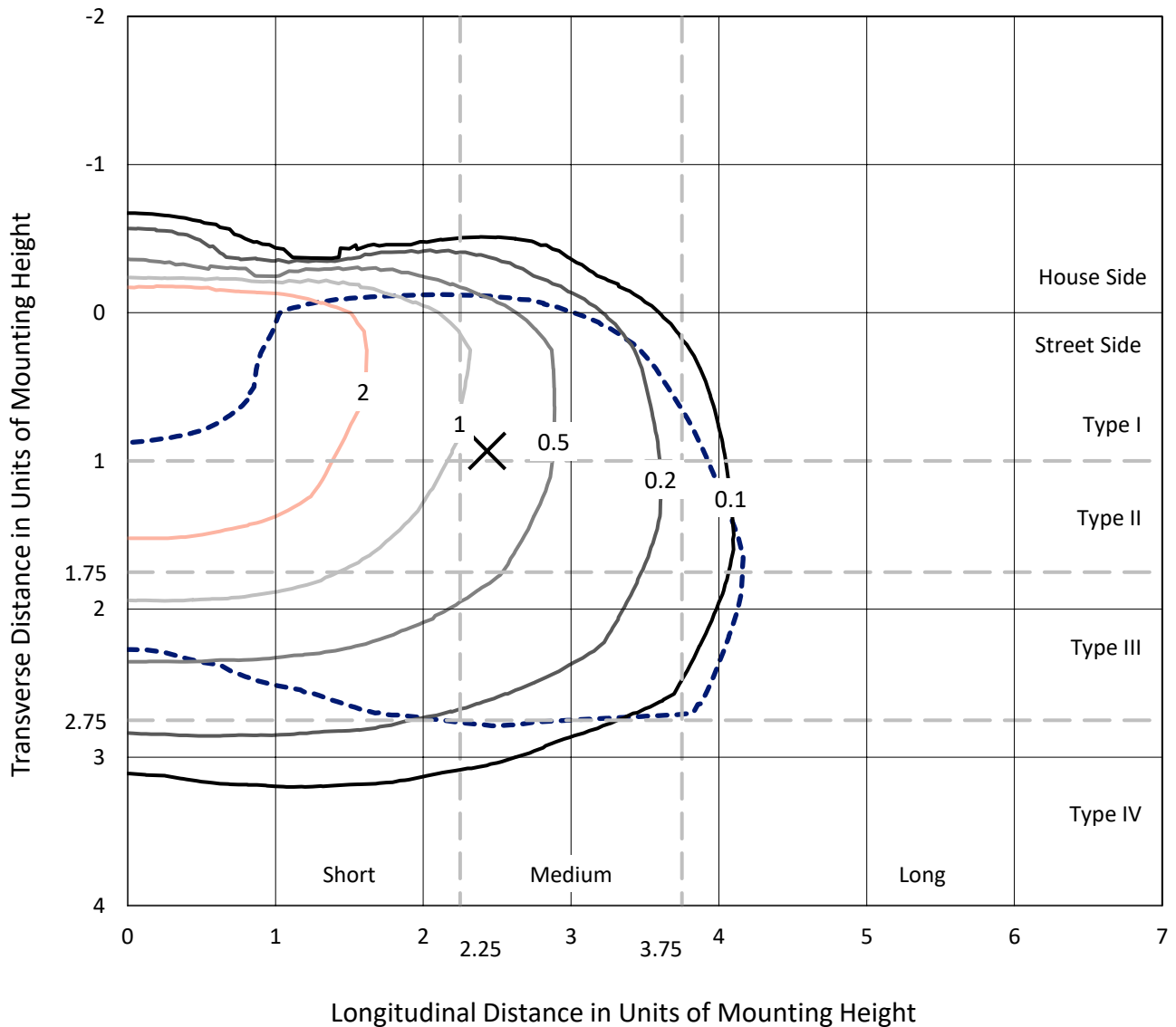
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

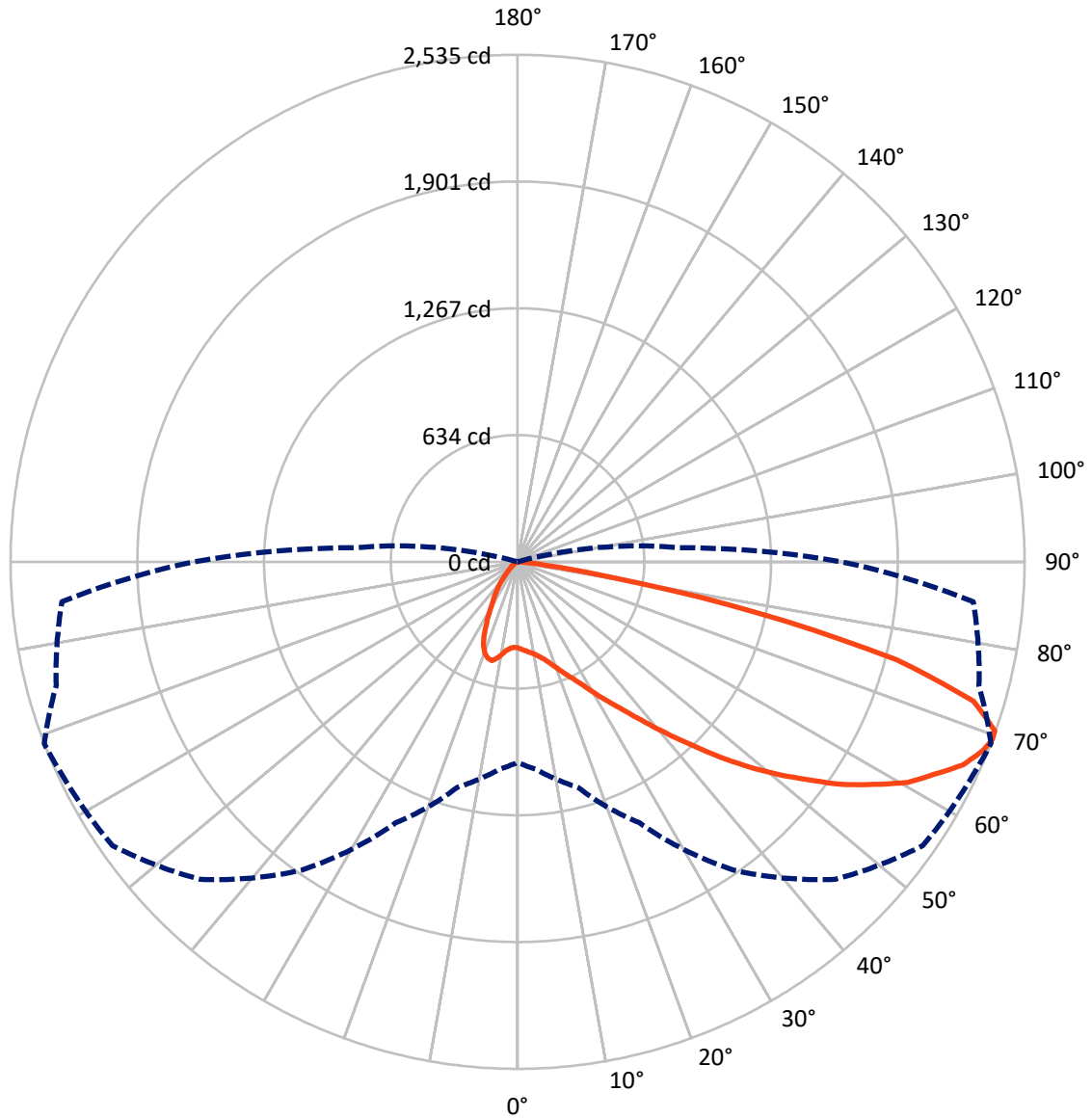
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	377.2	0.0	377.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	3493.8	0.0	3493.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	3871.0	0.0	3871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.1
10°-20°	108.6	2.8
20°-30°	180.9	4.7
30°-40°	325.6	8.4
40°-50°	590.4	15.3
50°-60°	922.7	23.8
60°-70°	1067.5	27.6
70°-80°	597.0	15.4
80°-90°	37.3	1.0
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°	3871.0	100.0
0°-180°	3871.0	100.0

Coefficient of Utilization

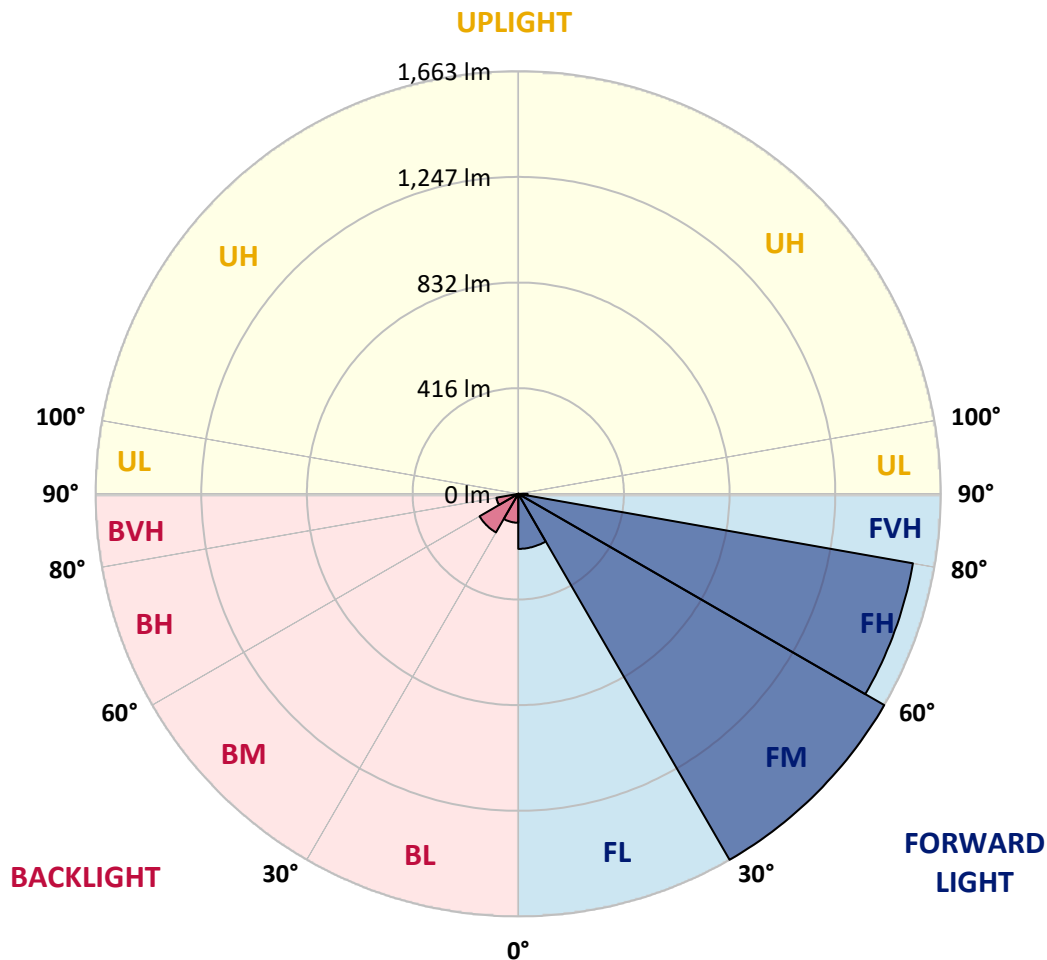


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.6	5.6			
FM (30°-60°)	1663.1	43.0			
FH (60°-80°)	1577.1	40.7			G1/1800
FVH (80°-90°)	37.0	1.0			G1/100
BL (0°-30°)	114.0	2.9	B1/500		
BM (30°-60°)	175.6	4.5	B0/220		
BH (60°-80°)	87.3	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	446.1	446.1	446.1	443.5	444.8	443.5	442.2	438.3	439.6	438.3	434.5
5°	430.6	431.9	435.7	438.3	444.8	447.3	448.6	448.6	447.3	444.8	442.2
7.5°	400.9	400.9	404.8	412.5	425.4	439.6	451.2	457.7	458.9	458.9	455.1
10°	393.2	393.2	398.4	403.5	416.4	433.2	451.2	466.7	469.3	471.8	470.6
12.5°	389.3	390.6	395.8	404.8	421.6	437.0	456.4	478.3	486.0	492.5	493.8
15°	394.5	394.5	399.6	408.7	428.0	449.9	474.4	498.9	506.6	515.7	522.1
17.5°	402.2	404.8	407.4	416.4	434.5	461.5	493.8	526.0	535.0	546.6	551.8
20°	415.1	415.1	417.7	425.4	444.8	477.0	522.1	560.8	568.5	576.3	582.7
22.5°	430.6	431.9	431.9	438.3	460.2	495.0	546.6	594.3	607.2	611.1	613.7
25°	477.0	474.4	465.4	461.5	478.3	515.7	576.3	634.3	648.5	652.3	647.2
27.5°	573.7	563.4	538.9	513.1	510.5	547.9	616.2	684.6	700.0	701.3	683.3
30°	694.9	696.2	656.2	600.8	563.4	582.7	660.1	747.7	763.2	756.7	728.4
32.5°	844.4	838.0	808.3	728.4	653.6	636.9	707.8	813.5	831.5	821.2	783.8
35°	972.0	975.9	939.8	868.9	774.8	720.7	765.8	887.0	908.9	890.8	844.4
37.5°	1079.0	1084.2	1062.3	1004.3	920.5	835.4	841.8	973.3	1003.0	984.9	926.9
40°	1197.6	1201.5	1192.5	1129.3	1054.6	972.0	943.7	1072.6	1112.6	1088.1	1027.5
42.5°	1327.9	1342.0	1326.6	1276.3	1198.9	1128.0	1085.5	1193.8	1233.7	1218.3	1137.1
45°	1505.8	1507.1	1489.0	1438.7	1358.8	1300.8	1249.2	1322.7	1374.3	1354.9	1259.5
47.5°	1637.3	1646.3	1636.0	1601.2	1536.7	1498.0	1427.1	1464.5	1518.7	1494.2	1385.9
50°	1737.8	1762.3	1753.3	1763.6	1731.4	1714.6	1606.3	1611.5	1664.3	1643.7	1514.8
52.5°	1793.3	1824.2	1826.8	1879.6	1906.7	1948.0	1780.4	1772.6	1806.1	1788.1	1646.3
55°	1785.5	1793.3	1857.7	1954.4	2060.1	2154.2	1950.5	1918.3	1964.7	1914.4	1785.5
57.5°	1710.7	1730.1	1843.5	1963.4	2150.4	2287.0	2097.5	2061.4	2100.1	2033.0	1928.6
60°	1603.7	1632.1	1777.8	1949.2	2203.2	2366.9	2240.6	2204.5	2239.3	2158.1	2091.1
62.5°	1507.1	1519.9	1654.0	1889.9	2172.3	2363.1	2351.5	2317.9	2338.6	2253.5	2230.3
65°	1369.1	1374.3	1507.1	1782.9	2103.9	2337.3	2412.1	2424.9	2446.9	2333.4	2329.6
67.5°	1156.4	1168.0	1299.5	1596.0	1990.5	2287.0	2459.8	2485.5	2511.3	2376.0	2347.6
69°	1003.0	1040.4	1166.7	1438.7	1880.9	2244.5	2472.6	2513.9	2534.5	2387.6	2287.0
70°	877.9	910.2	1055.8	1317.5	1784.2	2196.8	2481.7	2510.0	2530.7	2363.1	2187.7
72.5°	440.9	482.2	682.0	961.7	1418.1	1978.9	2435.3	2404.3	2382.4	2173.6	1770.0
75°	170.2	176.6	292.6	547.9	887.0	1452.9	2079.4	2021.4	1957.0	1648.9	1049.4
77.5°	94.1	92.8	127.6	242.4	377.7	710.3	1406.5	1313.7	1224.7	885.7	425.4
80°	40.0	42.5	55.4	116.0	198.5	246.2	683.3	607.2	483.4	281.0	101.8
82.5°	24.5	25.8	38.7	70.9	137.9	94.1	221.7	189.5	139.2	76.1	24.5
85°	7.7	9.0	27.1	47.7	67.0	38.7	50.3	43.8	38.7	32.2	7.7
87.5°	1.3	1.3	10.3	25.8	18.0	6.4	5.2	9.0	14.2	15.5	2.6
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°	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6	430.6
2.5°	433.2	430.6	428.0	426.7	426.7	424.1	422.9	421.6	421.6	420.3	420.3
5°	438.3	435.7	433.2	431.9	429.3	428.0	428.0	428.0	426.7	428.0	429.3
7.5°	451.2	447.3	446.1	444.8	444.8	440.9	434.5	417.7	400.9	395.8	390.6
10°	469.3	468.0	468.0	468.0	458.9	425.4	379.0	337.8	315.8	297.8	297.8
12.5°	495.0	495.0	493.8	489.9	443.5	362.3	290.1	228.2	192.1	171.5	174.0
15°	523.4	522.1	524.7	500.2	390.6	279.8	175.3	123.8	104.4	101.8	101.8
17.5°	553.1	555.6	553.1	473.1	321.0	172.8	104.4	94.1	91.5	91.5	91.5
20°	584.0	581.4	577.6	426.7	233.3	108.3	90.2	87.7	85.1	83.8	83.8
22.5°	614.9	612.4	586.6	367.4	145.7	89.0	85.1	79.9	76.1	74.8	74.8
25°	644.6	644.6	569.8	291.4	99.3	83.8	77.4	72.2	68.3	64.5	64.5
27.5°	682.0	684.6	542.7	203.7	83.8	77.4	69.6	61.9	56.7	54.1	54.1
30°	724.5	728.4	498.9	132.8	76.1	68.3	60.6	51.6	43.8	41.3	40.0
32.5°	774.8	778.7	448.6	87.7	68.3	59.3	50.3	38.7	30.9	29.7	28.4
35°	839.3	830.2	388.0	69.6	59.3	50.3	38.7	27.1	21.9	20.6	20.6
37.5°	919.2	899.8	318.4	60.6	50.3	40.0	28.4	18.0	14.2	14.2	12.9
40°	1010.7	956.6	246.2	54.1	42.5	30.9	18.0	11.6	9.0	9.0	9.0
42.5°	1111.3	1004.3	175.3	47.7	34.8	21.9	11.6	6.4	5.2	5.2	5.2
45°	1227.3	1048.1	119.9	41.3	29.7	15.5	6.4	2.6	2.6	2.6	2.6
47.5°	1343.3	1076.5	79.9	36.1	21.9	9.0	3.9	1.3	1.3	1.3	1.3
50°	1460.6	1098.4	61.9	30.9	15.5	5.2	1.3	0.0	0.0	0.0	0.0
52.5°	1565.1	1113.9	50.3	25.8	10.3	3.9	1.3	0.0	0.0	0.0	0.0
55°	1655.3	1115.1	43.8	20.6	7.7	2.6	0.0	0.0	0.0	0.0	0.0
57.5°	1746.8	1104.8	37.4	15.5	5.2	1.3	0.0	0.0	0.0	0.0	0.0
60°	1802.3	1077.8	29.7	11.6	3.9	1.3	0.0	0.0	0.0	0.0	0.0
62.5°	1835.8	1032.6	23.2	7.7	2.6	1.3	0.0	0.0	0.0	0.0	0.0
65°	1816.5	975.9	16.8	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1726.2	888.2	11.6	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0
69°	1619.2	808.3	10.3	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
70°	1525.1	746.4	9.0	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1135.8	480.9	7.7	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	638.1	161.1	5.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	239.8	41.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.9	10.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)