

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: P595092

Luminaire Tested: **IST-PA1B-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-830-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4141 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

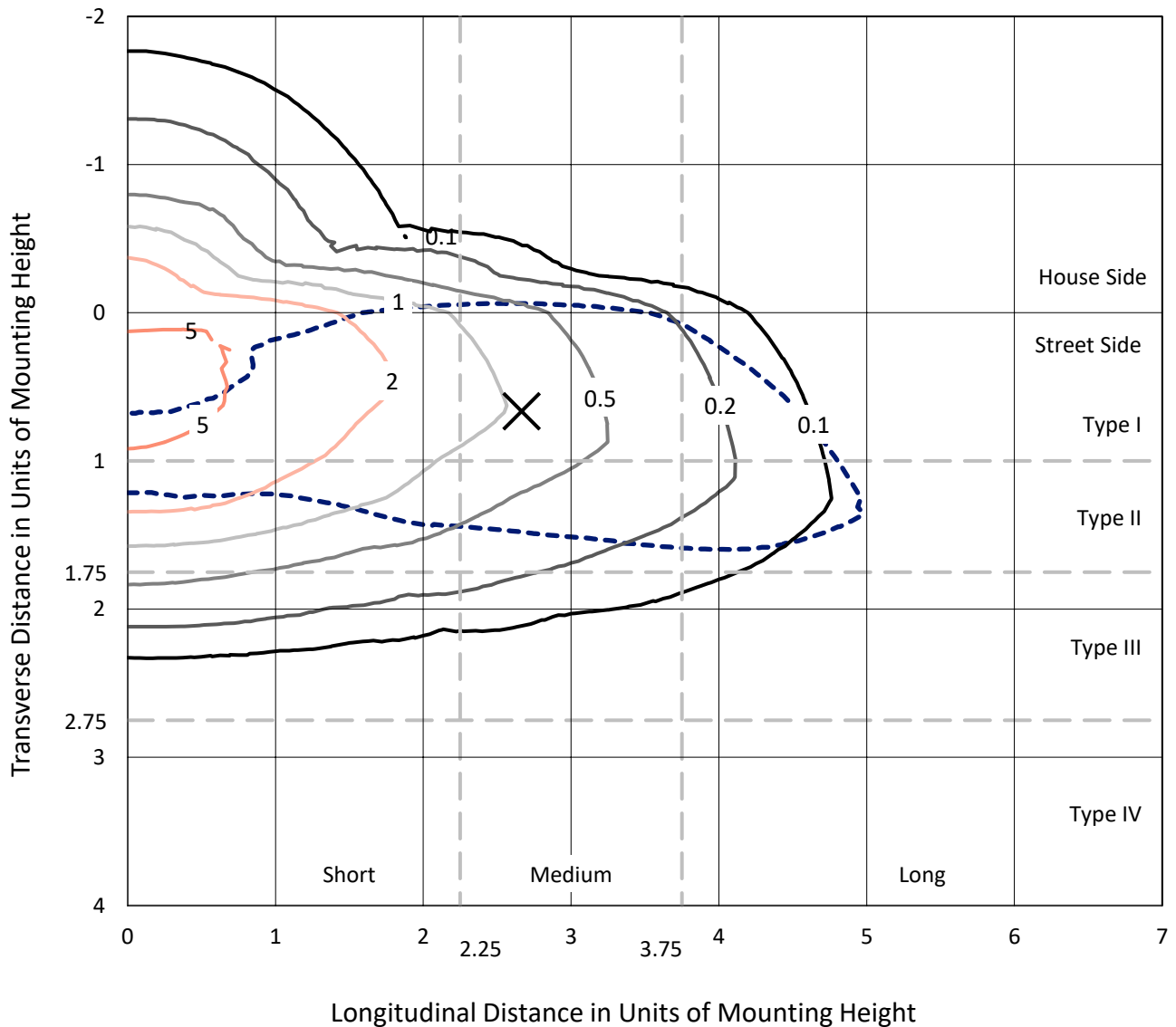
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

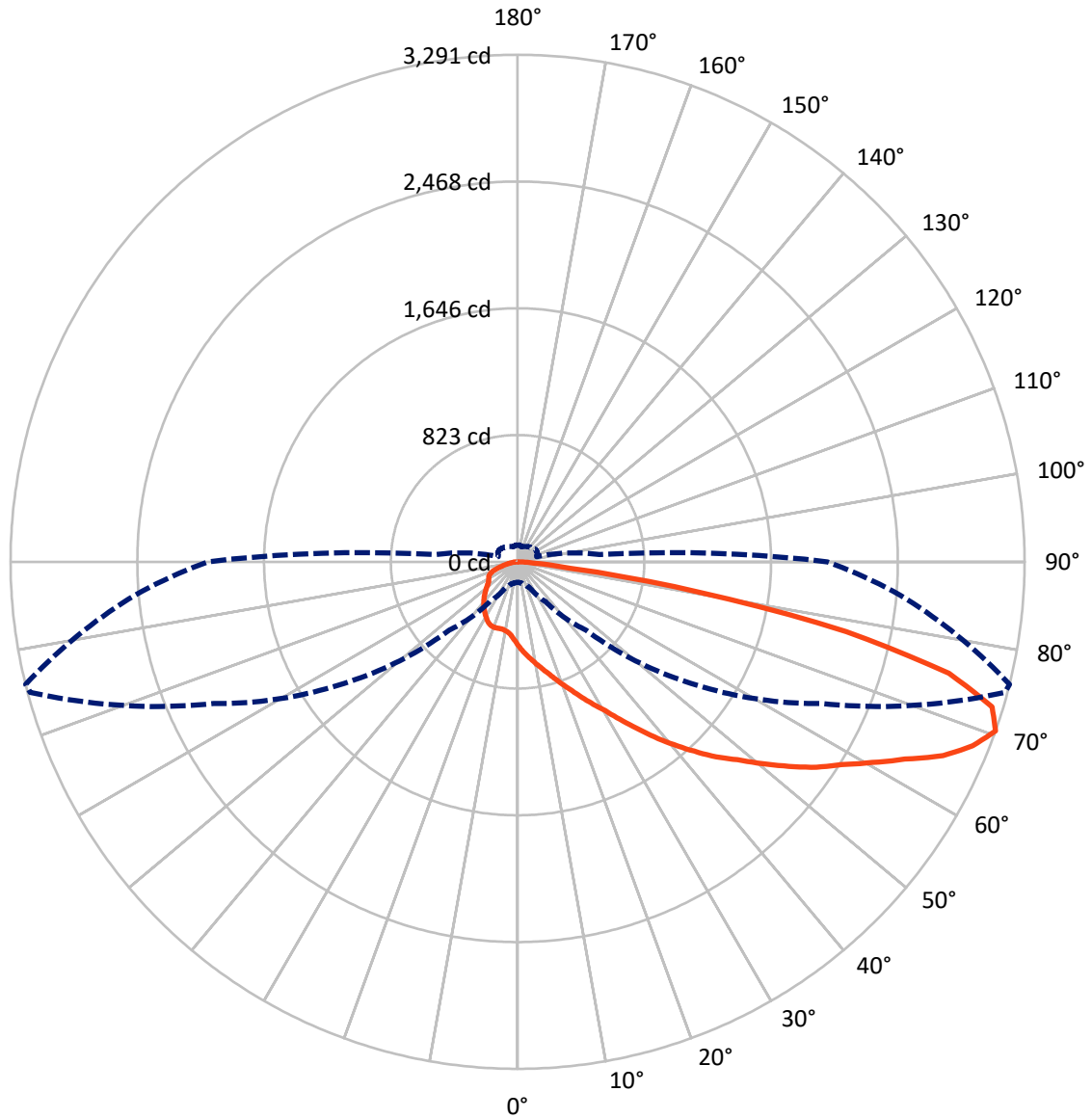
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.2	0.0	664.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	3476.8	0.0	3476.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	4141.0	0.0	4141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	1.3
10°-20°	174.7	4.2
20°-30°	322.0	7.8
30°-40°	539.5	13.0
40°-50°	766.5	18.5
50°-60°	885.0	21.4
60°-70°	813.6	19.6
70°-80°	513.0	12.4
80°-90°	73.8	1.8
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°	4141.0	100.0
0°-180°	4141.0	100.0

Coefficient of Utilization

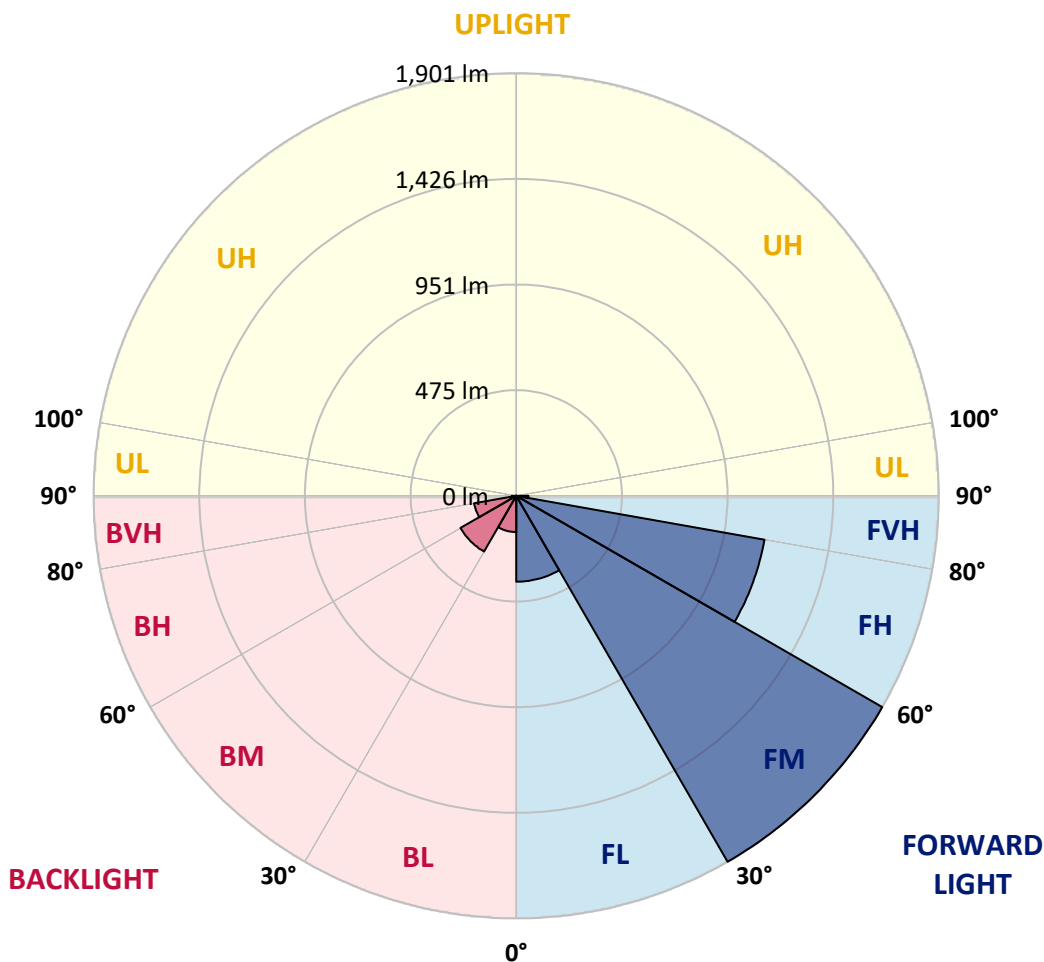


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.6	9.3			
FM (30°-60°)	1901.4	45.9			
FH (60°-80°)	1134.1	27.4			G1/1800
FVH (80°-90°)	54.7	1.3			G1/100
BL (0°-30°)	163.0	3.9	B1/500		
BM (30°-60°)	289.6	7.0	B1/1000		
BH (60°-80°)	192.5	4.6	B1/500		G1/500
BVH (80°-90°)	19.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2
2.5°	653.9	652.9	649.9	644.9	640.9	629.0	613.0	599.1	578.1	576.1	555.2
5°	712.7	708.7	708.7	703.7	698.7	685.8	665.8	640.9	611.0	609.0	569.2
7.5°	740.6	741.6	739.6	735.6	736.6	725.6	707.7	682.8	641.9	639.9	588.1
10°	780.5	779.5	775.5	772.5	771.5	761.5	745.6	722.7	679.8	675.8	610.0
12.5°	819.3	816.4	817.3	816.4	814.4	804.4	789.4	766.5	713.7	711.7	636.9
15°	841.3	840.3	847.3	849.2	857.2	848.2	835.3	809.4	761.5	753.6	668.8
17.5°	855.2	854.2	861.2	877.2	892.1	892.1	888.1	860.2	807.4	801.4	704.7
20°	879.1	883.1	895.1	908.1	930.0	934.0	933.0	921.0	860.2	854.2	744.6
22.5°	927.0	925.0	935.0	954.9	974.8	980.8	981.8	981.8	921.0	910.0	785.5
25°	1029.7	1024.7	1016.7	1014.7	1038.6	1037.6	1034.6	1041.6	984.8	976.8	832.3
27.5°	1225.0	1214.1	1183.2	1121.4	1107.4	1112.4	1097.4	1098.4	1057.6	1047.6	872.2
30°	1410.4	1405.4	1376.5	1301.8	1223.0	1195.1	1169.2	1158.2	1138.3	1121.4	915.0
32.5°	1577.9	1578.9	1544.0	1462.3	1381.5	1293.8	1248.9	1226.0	1234.0	1219.0	973.8
35°	1691.5	1682.5	1660.6	1605.8	1518.1	1434.3	1348.6	1297.8	1340.7	1323.7	1032.6
37.5°	1758.3	1751.3	1733.4	1694.5	1650.6	1569.9	1461.3	1383.5	1467.2	1442.3	1107.4
40°	1792.2	1782.2	1764.3	1748.3	1727.4	1683.5	1587.8	1481.2	1582.9	1560.9	1181.2
42.5°	1796.2	1789.2	1779.2	1771.3	1778.2	1772.2	1711.4	1594.8	1704.5	1680.5	1265.9
45°	1793.2	1798.2	1786.2	1772.2	1786.2	1837.0	1837.0	1708.5	1825.1	1807.1	1346.6
47.5°	1795.2	1790.2	1786.2	1782.2	1784.2	1854.0	1923.8	1815.1	1940.7	1919.8	1441.3
50°	1712.4	1719.4	1753.3	1768.3	1777.2	1858.0	1993.5	1930.7	2084.2	2058.3	1547.0
52.5°	1449.3	1453.3	1607.8	1719.4	1755.3	1842.0	2042.4	2059.3	2225.8	2205.8	1660.6
55°	1116.4	1137.3	1283.8	1556.9	1705.5	1815.1	2057.3	2143.0	2370.3	2354.4	1775.2
57.5°	919.0	922.0	1006.7	1250.9	1548.0	1790.2	2072.3	2219.8	2499.9	2481.9	1894.9
60°	762.5	755.5	807.4	964.9	1285.8	1690.5	2075.3	2280.6	2650.4	2644.4	2018.5
62.5°	560.2	568.2	618.0	751.6	1005.7	1488.2	2060.3	2332.4	2829.8	2821.8	2156.0
65°	343.9	353.9	414.7	537.3	761.5	1181.2	1962.6	2359.3	3018.2	3036.1	2304.5
67.5°	182.4	189.4	225.3	324.9	522.3	900.1	1727.4	2325.5	3177.7	3185.7	2447.1
70°	133.6	134.6	146.5	183.4	315.0	626.0	1375.5	2177.9	3275.4	3291.3	2493.9
72.5°	116.6	117.6	122.6	131.6	171.4	381.8	985.8	1920.8	3234.5	3220.6	2415.2
75°	105.7	105.7	109.6	112.6	125.6	211.3	604.0	1571.9	2922.5	2891.6	2059.3
77.5°	90.7	90.7	94.7	98.7	108.6	136.6	316.0	1165.2	2234.7	2181.9	1408.4
80°	72.8	72.8	77.7	82.7	95.7	102.7	154.5	779.5	1277.9	1200.1	640.9
82.5°	49.8	53.8	62.8	68.8	79.7	72.8	90.7	336.9	402.7	348.9	144.5
85°	29.9	31.9	44.9	51.8	59.8	38.9	55.8	129.6	120.6	105.7	32.9
87.5°	3.0	5.0	17.9	20.9	20.9	11.0	23.9	30.9	34.9	35.9	8.0
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°	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2	543.2
2.5°	543.2	531.3	508.4	487.4	466.5	452.5	438.6	433.6	426.6	421.6	425.6
5°	548.2	523.3	479.4	442.6	417.6	398.7	389.7	384.8	380.8	379.8	378.8
7.5°	554.2	517.3	458.5	417.6	393.7	384.8	382.8	382.8	382.8	383.8	384.8
10°	567.2	519.3	447.5	403.7	390.7	388.7	389.7	393.7	393.7	394.7	394.7
12.5°	582.1	524.3	439.6	401.7	393.7	394.7	395.7	397.7	397.7	400.7	399.7
15°	604.0	534.3	438.6	403.7	396.7	394.7	394.7	393.7	393.7	393.7	395.7
17.5°	631.9	548.2	439.6	403.7	393.7	389.7	386.7	383.8	379.8	381.8	379.8
20°	659.9	565.2	439.6	398.7	385.7	375.8	366.8	361.8	356.8	355.8	356.8
22.5°	694.7	585.1	434.6	387.7	368.8	354.8	341.9	334.9	326.9	323.9	322.0
25°	724.6	601.0	424.6	371.8	349.9	329.9	313.0	301.0	291.1	289.1	289.1
27.5°	755.5	615.0	409.7	351.9	323.0	301.0	282.1	267.1	257.2	256.2	255.2
30°	784.5	627.0	389.7	329.9	299.0	273.1	251.2	238.2	229.3	224.3	221.3
32.5°	822.3	642.9	370.8	308.0	271.1	245.2	225.3	214.3	202.3	194.4	191.4
35°	870.2	661.9	349.9	284.1	246.2	220.3	208.3	192.4	177.4	168.5	165.5
37.5°	924.0	688.8	327.9	259.2	221.3	202.3	195.4	170.4	154.5	151.5	150.5
40°	990.8	714.7	303.0	233.2	197.4	192.4	180.4	154.5	146.5	145.5	144.5
42.5°	1057.6	742.6	279.1	207.3	178.4	180.4	163.5	150.5	143.5	141.5	140.5
45°	1135.3	770.5	255.2	184.4	163.5	163.5	154.5	146.5	140.5	138.6	138.6
47.5°	1217.1	798.4	229.3	164.5	152.5	146.5	147.5	141.5	137.6	135.6	134.6
50°	1319.7	825.3	205.3	150.5	145.5	137.6	140.5	136.6	134.6	132.6	131.6
52.5°	1416.4	837.3	183.4	142.5	141.5	133.6	134.6	132.6	131.6	128.6	127.6
55°	1511.1	834.3	166.5	138.6	136.6	132.6	130.6	129.6	128.6	125.6	124.6
57.5°	1616.8	830.3	155.5	137.6	133.6	129.6	129.6	126.6	122.6	122.6	122.6
60°	1726.4	817.3	150.5	137.6	132.6	129.6	127.6	124.6	120.6	121.6	120.6
62.5°	1850.0	792.4	147.5	140.5	133.6	128.6	126.6	122.6	117.6	118.6	117.6
65°	1958.6	741.6	145.5	143.5	135.6	129.6	124.6	119.6	113.6	114.6	113.6
67.5°	2032.4	655.9	139.5	145.5	138.6	128.6	122.6	115.6	107.7	111.6	110.6
70°	2011.5	533.3	128.6	141.5	141.5	129.6	119.6	110.6	101.7	109.6	106.7
72.5°	1849.0	400.7	107.7	127.6	139.5	129.6	113.6	102.7	94.7	99.7	93.7
75°	1518.1	272.1	85.7	101.7	130.6	130.6	108.6	94.7	84.7	81.7	79.7
77.5°	946.9	169.5	66.8	74.8	109.6	129.6	103.7	84.7	70.8	68.8	66.8
80°	374.8	90.7	52.8	53.8	80.7	118.6	96.7	71.8	56.8	54.8	50.8
82.5°	85.7	45.9	36.9	35.9	49.8	96.7	87.7	56.8	43.9	43.9	36.9
85°	25.9	23.9	23.9	22.9	24.9	49.8	67.8	38.9	29.9	20.9	17.9
87.5°	7.0	10.0	9.0	8.0	8.0	7.0	21.9	10.0	6.0	3.0	2.0
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)