

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: P595174

Luminaire Tested: **IST-PA1C-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3750 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

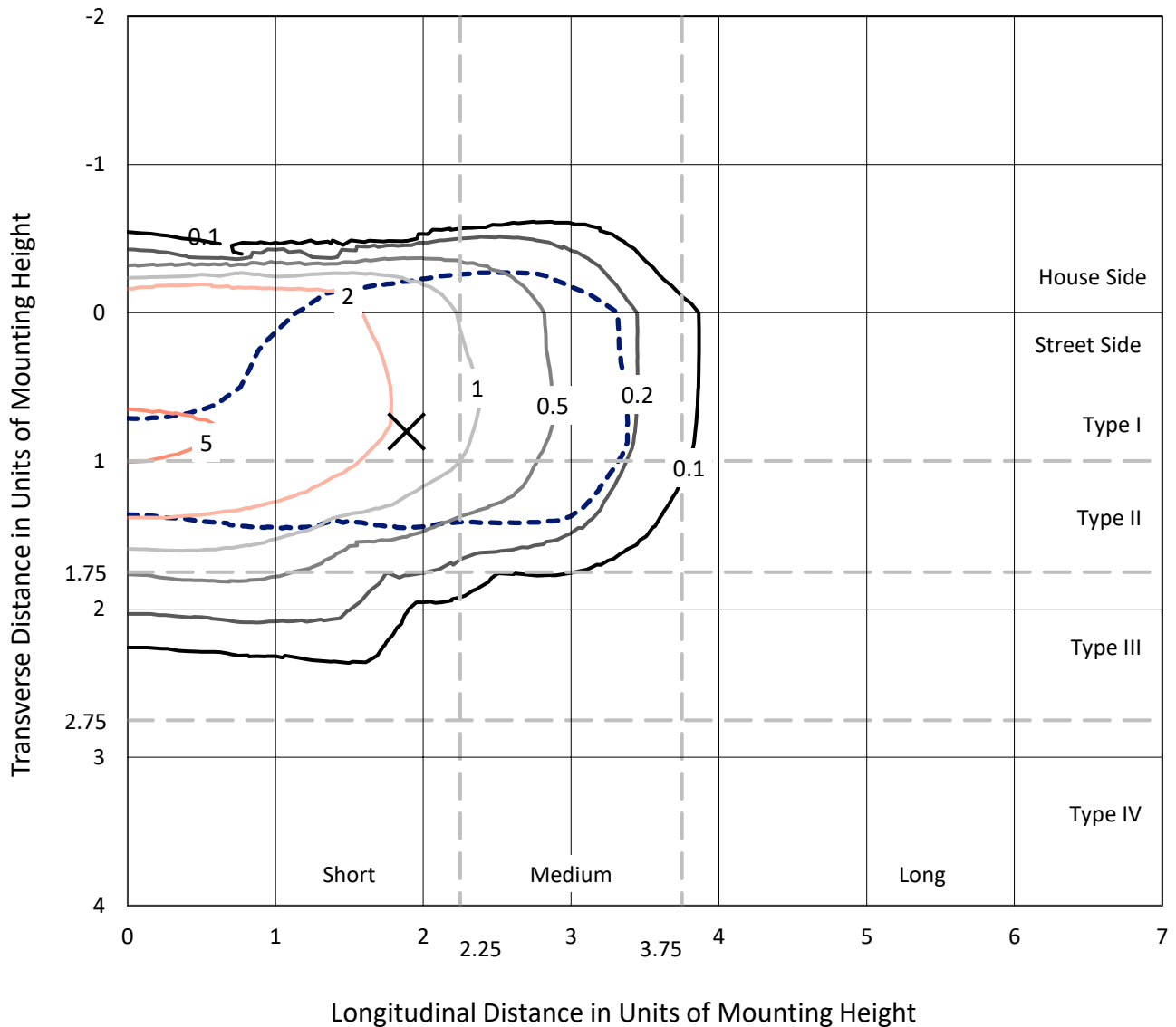
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

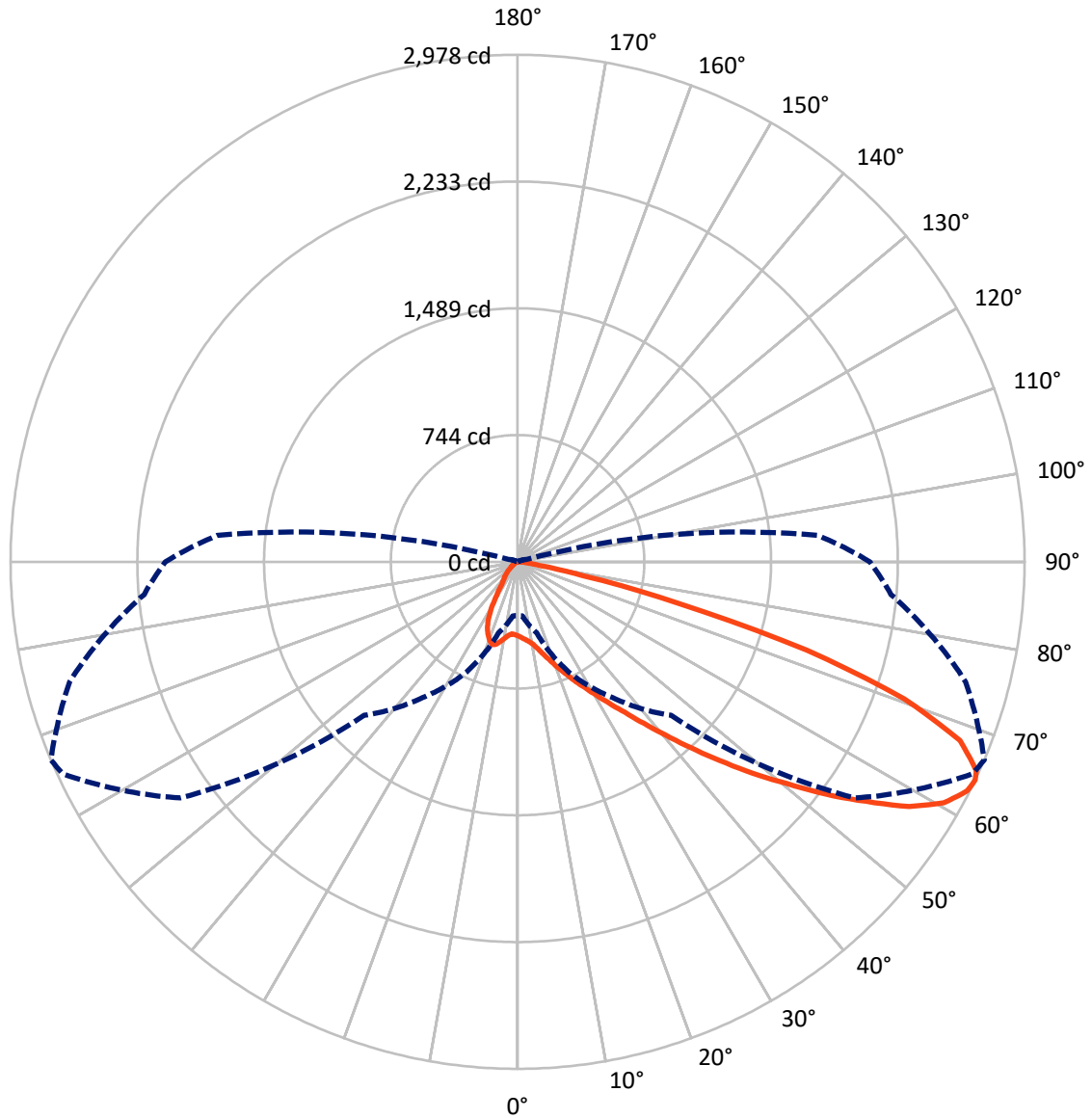
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.7	0.0	479.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3270.3	0.0	3270.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	3750.0	0.0	3750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.1
10°-20°	122.0	3.3
20°-30°	221.4	5.9
30°-40°	424.0	11.3
40°-50°	781.5	20.8
50°-60°	1009.4	26.9
60°-70°	826.8	22.0
70°-80°	303.9	8.1
80°-90°	19.6	0.5
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°	3750.0	100.0
0°-180°	3750.0	100.0

Coefficient of Utilization

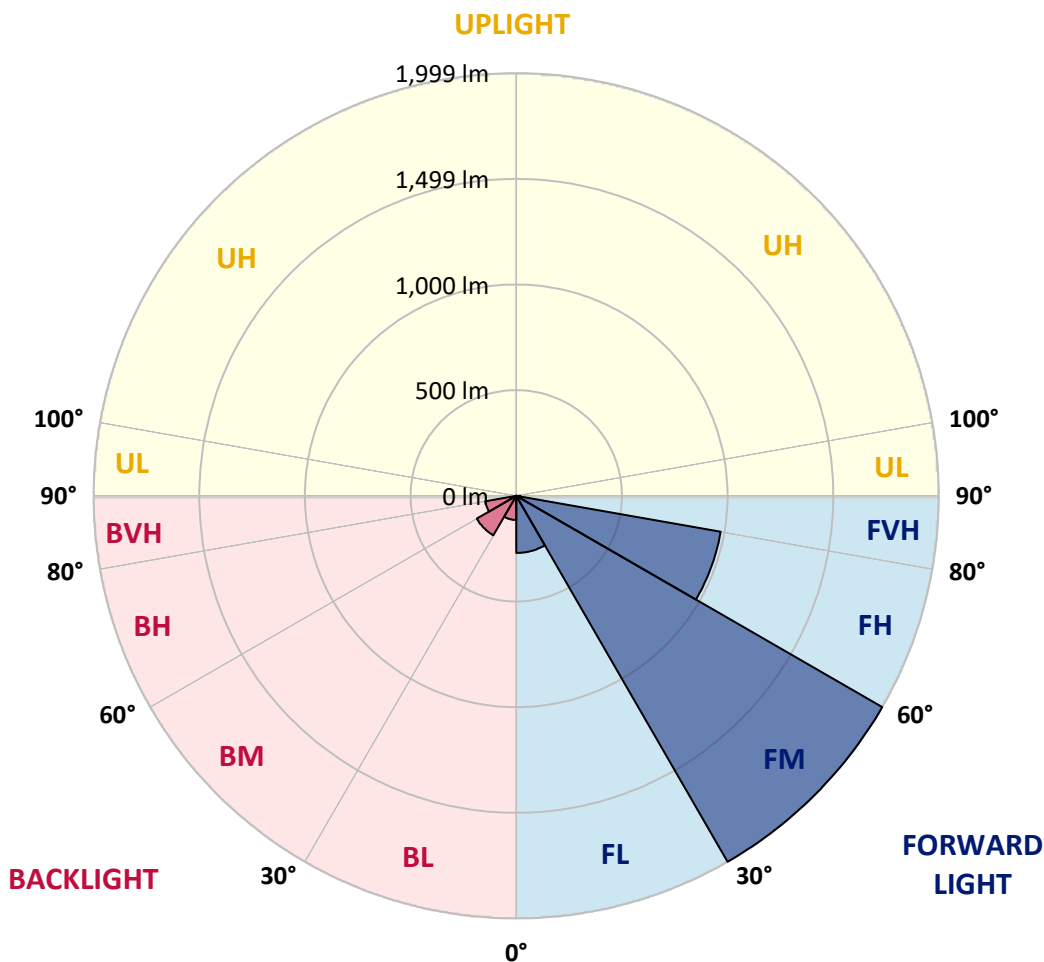


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.4	7.2			
FM (30°-60°)	1999.3	53.3			
FH (60°-80°)	981.9	26.2			G1/1800
FVH (80°-90°)	18.7	0.5			G1/100
BL (0°-30°)	114.3	3.0	B1/500		
BM (30°-60°)	215.7	5.8	B0/220		
BH (60°-80°)	148.8	4.0	B1/500		G1/500
BVH (80°-90°)	0.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	451.2	451.2	453.8	452.5	452.5	449.9	446.0	447.3	446.0	444.8	440.9
5°	443.5	444.8	446.0	448.6	453.8	456.4	456.4	457.6	457.6	456.4	451.2
7.5°	439.6	442.2	444.8	447.3	453.8	457.6	464.1	471.8	471.8	473.1	468.0
10°	453.8	456.4	460.2	464.1	470.5	477.0	482.1	491.2	491.2	493.7	492.5
12.5°	483.4	483.4	484.7	487.3	496.3	504.1	513.1	520.8	522.1	523.4	519.5
15°	519.5	519.5	520.8	520.8	526.0	537.6	554.3	562.1	560.8	559.5	551.8
17.5°	560.8	560.8	560.8	562.1	564.6	571.1	590.4	605.9	604.6	603.3	587.9
20°	599.5	602.0	604.6	605.9	608.5	613.6	634.3	652.3	656.2	651.0	623.9
22.5°	643.3	644.6	645.9	649.7	656.2	658.8	679.4	706.5	710.3	703.9	667.8
25°	687.1	689.7	693.6	698.7	705.2	718.1	732.2	768.3	772.2	764.5	715.5
27.5°	783.8	782.5	770.9	761.9	763.2	772.2	791.5	830.2	834.1	826.3	763.2
30°	948.8	933.3	911.4	871.5	832.8	836.7	863.7	901.1	907.6	897.2	816.0
32.5°	1183.4	1168.0	1113.8	1026.2	941.1	912.7	947.5	983.6	991.4	979.8	877.9
35°	1411.6	1407.7	1356.2	1250.5	1106.1	1027.4	1036.5	1082.9	1085.5	1071.3	955.3
37.5°	1693.9	1679.8	1608.9	1490.3	1320.1	1179.6	1153.8	1197.6	1204.1	1187.3	1049.4
40°	1880.9	1875.7	1833.2	1749.4	1566.3	1389.7	1296.9	1339.4	1338.1	1313.6	1157.7
42.5°	1989.2	1991.7	1989.2	1949.2	1844.8	1642.4	1486.4	1489.0	1492.8	1467.0	1282.7
45°	2062.6	2062.6	2066.5	2098.7	2058.8	1944.0	1717.1	1659.1	1664.3	1624.3	1412.9
47.5°	2061.3	2069.1	2089.7	2164.5	2218.6	2225.1	2005.9	1857.7	1855.1	1794.5	1547.0
50°	1922.1	1917.0	2002.0	2169.6	2332.1	2457.1	2279.2	2067.8	2045.9	1971.1	1686.2
52.5°	1608.9	1625.6	1767.4	2013.6	2359.1	2614.4	2515.1	2297.3	2268.9	2146.4	1808.7
55°	1335.6	1353.6	1491.5	1732.6	2212.2	2669.8	2673.7	2540.9	2484.2	2298.5	1935.0
57.5°	1003.0	1037.8	1241.4	1468.3	1889.9	2531.9	2730.4	2774.2	2712.4	2445.5	2038.1
60°	640.7	661.3	889.5	1169.3	1531.5	2170.9	2718.8	2909.6	2876.1	2579.6	2124.5
62.5°	419.0	430.6	587.9	880.5	1166.7	1635.9	2580.9	2963.7	2963.7	2669.8	2189.0
64°	315.8	318.4	430.6	715.5	973.3	1275.0	2418.4	2947.0	2977.9	2724.0	2201.9
65°	250.1	251.4	336.5	594.3	874.0	1045.5	2276.6	2910.9	2961.2	2744.6	2209.6
67.5°	175.3	179.2	217.9	342.9	626.5	603.3	1687.5	2740.7	2802.6	2751.0	2199.3
70°	152.1	157.3	183.1	224.3	447.3	350.6	897.2	2335.9	2409.4	2562.8	2047.2
72.5°	116.0	122.5	153.4	189.5	314.6	237.2	346.8	1659.1	1775.2	1981.4	1690.1
75°	83.8	86.4	113.4	154.7	220.4	183.1	149.5	856.0	973.3	1169.3	1050.7
77.5°	52.9	56.7	77.3	116.0	197.2	139.2	89.0	312.0	393.2	509.2	458.9
80°	30.9	32.2	46.4	79.9	132.8	103.1	56.7	110.9	134.1	189.5	122.5
82.5°	18.0	19.3	29.7	54.1	86.4	79.9	36.1	56.7	63.2	72.2	25.8
85°	6.4	6.4	20.6	32.2	46.4	40.0	20.6	29.7	32.2	40.0	7.7
87.5°	1.3	1.3	10.3	16.8	16.8	6.4	10.3	12.9	15.5	21.9	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°	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7	435.7
2.5°	439.6	435.7	431.9	426.7	422.8	415.1	411.2	406.1	404.8	402.2	400.9
5°	449.9	443.5	434.4	421.6	413.8	402.2	394.5	386.7	385.5	382.9	381.6
7.5°	464.1	457.6	446.0	431.9	419.0	407.4	398.3	386.7	375.1	366.1	366.1
10°	487.3	479.6	464.1	451.2	435.7	411.2	368.7	330.0	305.5	290.1	284.9
12.5°	515.7	505.3	488.6	473.1	443.5	366.1	300.4	250.1	208.8	189.5	185.6
15°	545.3	536.3	519.5	496.3	407.4	305.5	219.2	141.8	101.8	83.8	86.4
17.5°	577.5	564.6	545.3	498.9	358.4	228.2	117.3	72.2	61.9	59.3	59.3
20°	611.1	594.3	575.0	470.5	295.2	131.5	67.0	54.1	50.3	46.4	47.7
22.5°	647.2	626.5	596.9	428.0	211.4	70.9	51.6	43.8	38.7	37.4	37.4
25°	685.8	656.2	618.8	379.0	122.5	54.1	42.5	34.8	30.9	29.7	28.4
27.5°	727.1	689.7	623.9	314.6	69.6	45.1	33.5	27.1	23.2	21.9	21.9
30°	764.5	723.2	612.3	233.3	52.9	37.4	27.1	20.6	18.0	18.0	18.0
32.5°	814.7	760.6	576.2	145.7	42.5	29.7	20.6	16.8	14.2	14.2	14.2
35°	880.5	816.0	540.2	77.3	34.8	24.5	16.8	12.9	11.6	11.6	11.6
37.5°	970.7	889.5	507.9	49.0	28.4	19.3	12.9	10.3	9.0	9.0	9.0
40°	1063.5	977.2	462.8	37.4	23.2	15.5	10.3	7.7	6.4	6.4	7.7
42.5°	1179.6	1079.0	411.2	32.2	19.3	12.9	7.7	5.2	3.9	5.2	5.2
45°	1296.9	1186.0	339.0	27.1	16.8	10.3	5.2	2.6	2.6	3.9	3.9
47.5°	1418.1	1299.5	263.0	23.2	14.2	7.7	3.9	1.3	1.3	2.6	2.6
50°	1543.1	1411.6	196.0	20.6	11.6	6.4	2.6	1.3	0.0	1.3	1.3
52.5°	1668.2	1519.9	152.1	18.0	10.3	5.2	1.3	0.0	0.0	0.0	1.3
55°	1784.2	1617.9	121.2	15.5	9.0	3.9	1.3	0.0	0.0	0.0	0.0
57.5°	1882.2	1690.1	96.7	14.2	7.7	2.6	1.3	0.0	0.0	0.0	0.0
60°	1975.0	1746.8	74.8	11.6	6.4	2.6	1.3	0.0	0.0	0.0	0.0
62.5°	2040.7	1768.7	60.6	10.3	5.2	2.6	0.0	0.0	0.0	0.0	0.0
64°	2069.1	1771.3	52.9	9.0	5.2	2.6	1.3	0.0	0.0	0.0	0.0
65°	2085.8	1763.6	49.0	9.0	5.2	2.6	1.3	0.0	0.0	0.0	0.0
67.5°	2089.7	1721.0	37.4	7.7	3.9	1.3	1.3	0.0	0.0	0.0	0.0
70°	1976.3	1572.8	27.1	5.2	2.6	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1651.4	1201.5	18.0	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
75°	1031.3	519.5	10.3	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	426.7	157.3	6.4	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
80°	98.0	37.4	2.6	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	23.2	6.4	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.2	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	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)