

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: P594949

Luminaire Tested: **IST-PA1A-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594949
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-PA1A-730-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 350mA 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: 2649 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

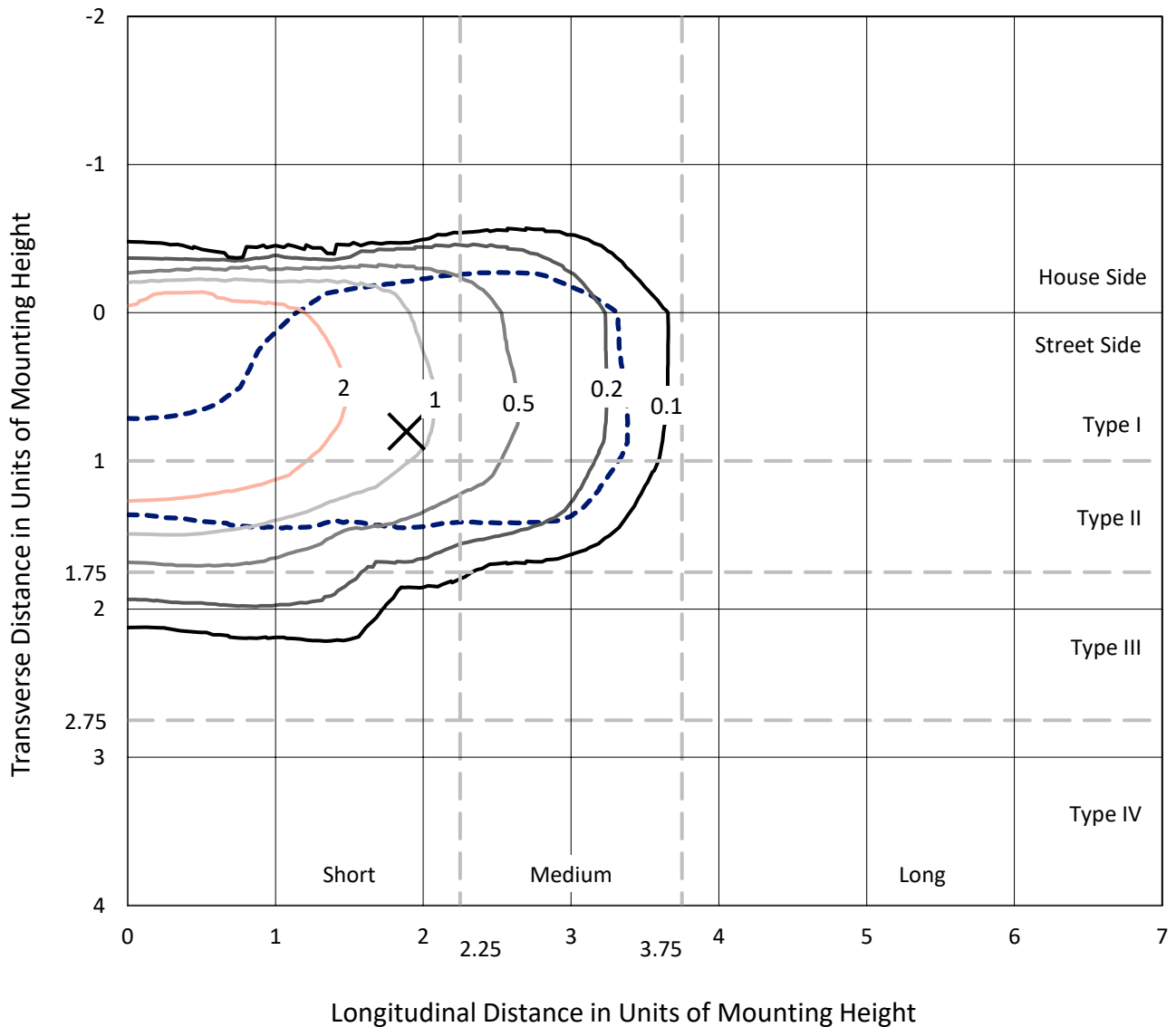
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

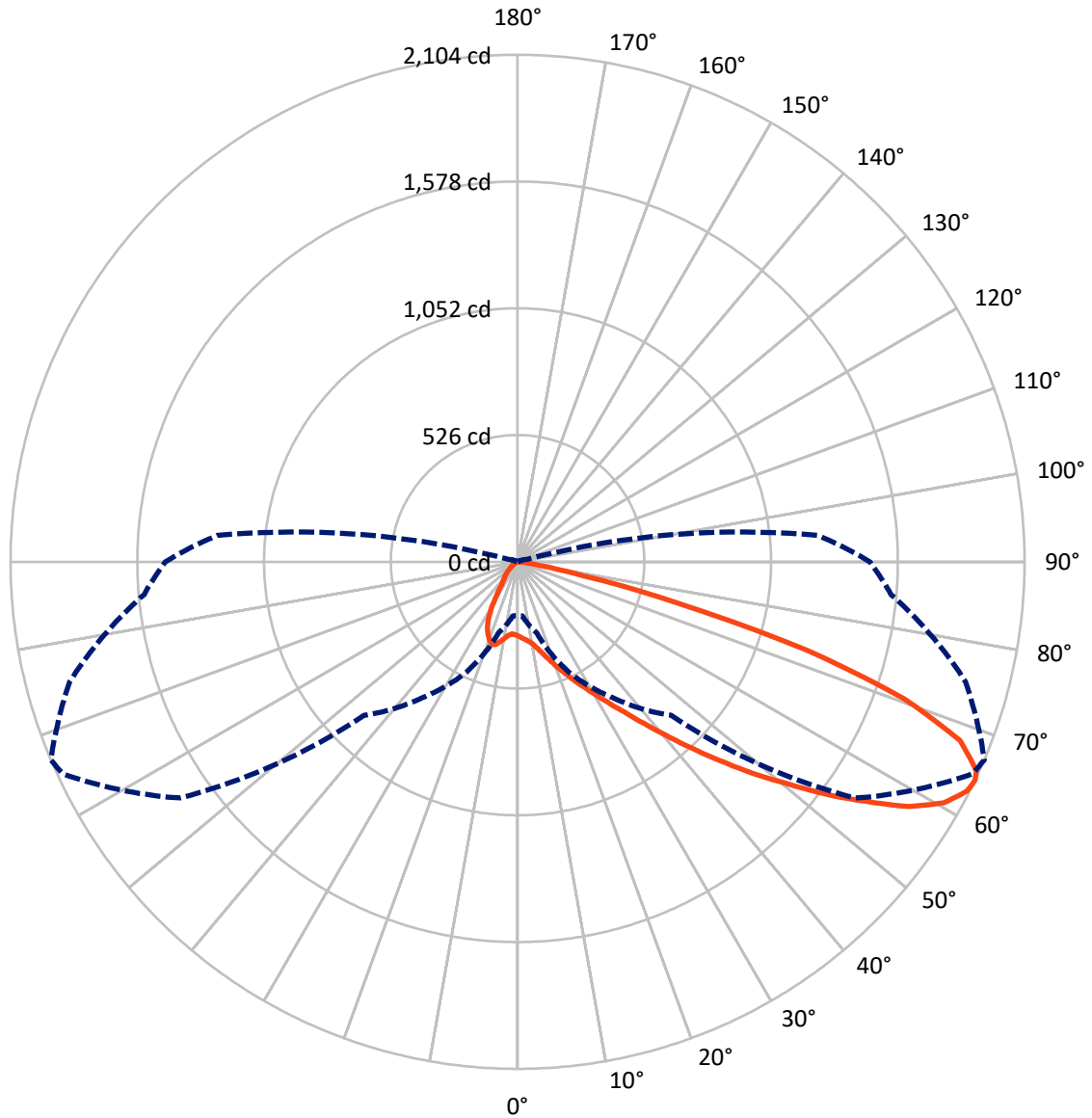
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 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	338.9	0.0	338.9
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2310.1	0.0	2310.1
	% Fixture	87.2	0.0	87.2
Total	Lumens	2649.0	0.0	2649.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.2	1.1
10°-20°	86.2	3.3
20°-30°	156.4	5.9
30°-40°	299.5	11.3
40°-50°	552.1	20.8
50°-60°	713.0	26.9
60°-70°	584.1	22.0
70°-80°	214.7	8.1
80°-90°	13.8	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°	2649.0	100.0
0°-180°	2649.0	100.0

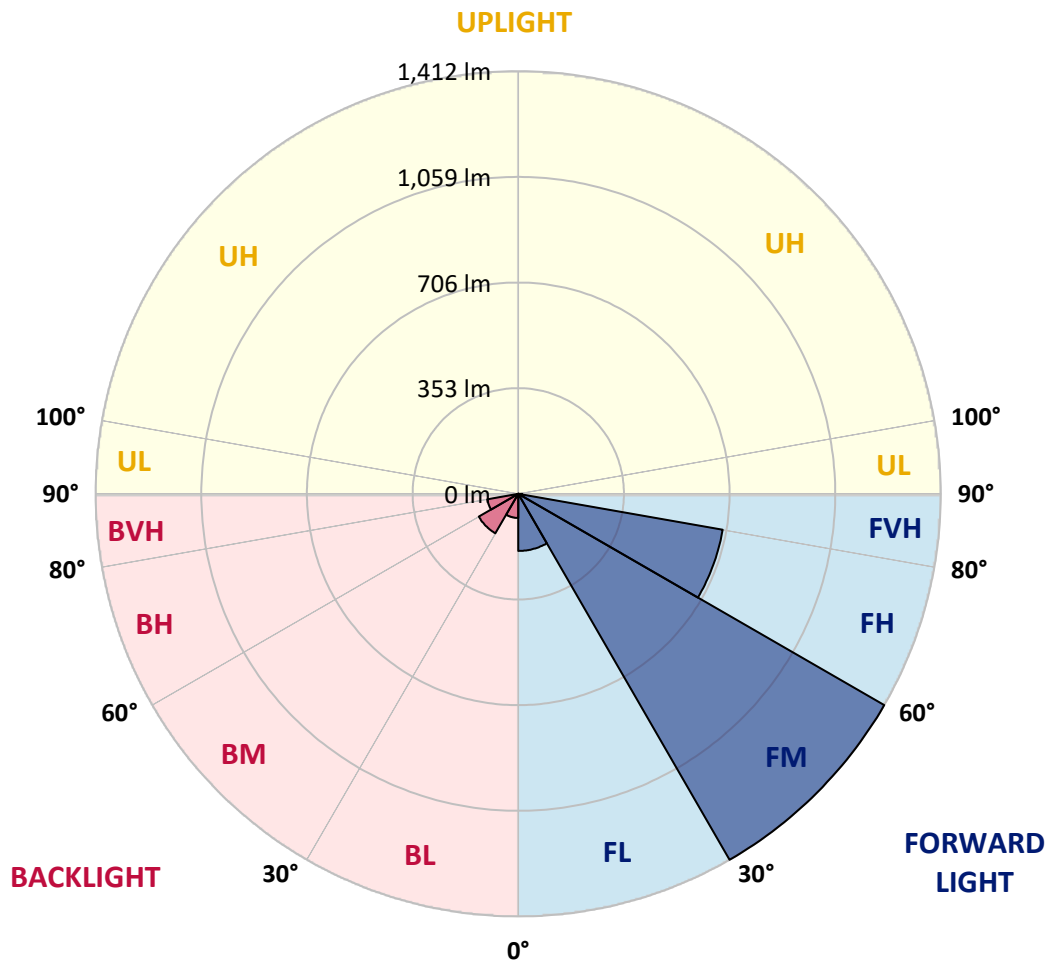


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.0	7.2			
FM (30°-60°)	1412.3	53.3			
FH (60°-80°)	693.6	26.2			G1/1800
FVH (80°-90°)	13.2	0.5			G1/100
BL (0°-30°)	80.8	3.0	B0/110		
BM (30°-60°)	152.4	5.8	B0/220		
BH (60°-80°)	105.1	4.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8
2.5°	318.7	318.7	320.5	319.6	319.6	317.8	315.1	316.0	315.1	314.2	311.4
5°	313.3	314.2	315.1	316.9	320.5	322.4	322.4	323.3	323.3	322.4	318.7
7.5°	310.5	312.4	314.2	316.0	320.5	323.3	327.8	333.3	333.3	334.2	330.6
10°	320.5	322.4	325.1	327.8	332.4	336.9	340.6	347.0	347.0	348.8	347.9
12.5°	341.5	341.5	342.4	344.2	350.6	356.1	362.4	367.9	368.8	369.7	367.0
15°	367.0	367.0	367.9	367.9	371.5	379.7	391.6	397.0	396.1	395.2	389.8
17.5°	396.1	396.1	396.1	397.0	398.9	403.4	417.1	428.0	427.1	426.2	415.3
20°	423.5	425.3	427.1	428.0	429.8	433.5	448.0	460.8	463.5	459.9	440.8
22.5°	454.4	455.3	456.2	459.0	463.5	465.3	479.9	499.0	501.8	497.2	471.7
25°	485.4	487.2	489.9	493.6	498.1	507.2	517.3	542.7	545.5	540.0	505.4
27.5°	553.7	552.8	544.6	538.2	539.1	545.5	559.1	586.5	589.2	583.7	539.1
30°	670.2	659.3	643.8	615.6	588.3	591.0	610.1	636.5	641.1	633.8	576.4
32.5°	836.0	825.1	786.8	724.9	664.8	644.7	669.3	694.8	700.3	692.1	620.2
35°	997.2	994.4	958.0	883.3	781.3	725.8	732.2	764.9	766.8	756.8	674.8
37.5°	1196.6	1186.6	1136.5	1052.7	932.5	833.2	815.0	846.0	850.5	838.7	741.3
40°	1328.6	1325.0	1294.9	1235.8	1106.4	981.7	916.1	946.2	945.3	928.0	817.8
42.5°	1405.1	1407.0	1405.1	1376.9	1303.1	1160.2	1050.0	1051.8	1054.5	1036.3	906.1
45°	1457.0	1457.0	1459.8	1482.5	1454.3	1373.3	1213.0	1172.0	1175.7	1147.4	998.1
47.5°	1456.1	1461.6	1476.2	1529.0	1567.2	1571.8	1417.0	1312.3	1310.4	1267.6	1092.8
50°	1357.8	1354.1	1414.2	1532.6	1647.4	1735.7	1610.0	1460.7	1445.2	1392.4	1191.1
52.5°	1136.5	1148.3	1248.5	1422.4	1666.5	1846.8	1776.7	1622.8	1602.7	1516.2	1277.6
55°	943.4	956.2	1053.6	1223.9	1562.7	1886.0	1888.7	1794.9	1754.8	1623.7	1366.9
57.5°	708.5	733.1	877.0	1037.2	1335.0	1788.5	1928.8	1959.7	1916.0	1727.5	1439.7
60°	452.6	467.2	628.4	826.0	1081.9	1533.5	1920.6	2055.3	2031.7	1822.2	1500.8
62.5°	296.0	304.2	415.3	622.0	824.1	1155.6	1823.1	2093.6	2093.6	1886.0	1546.3
64°	223.1	224.9	304.2	505.4	687.5	900.6	1708.4	2081.8	2103.6	1924.2	1555.4
65°	176.7	177.6	237.7	419.8	617.4	738.5	1608.2	2056.3	2091.8	1938.8	1560.9
67.5°	123.8	126.6	153.9	242.2	442.6	426.2	1192.0	1936.0	1979.8	1943.3	1553.6
70°	107.5	111.1	129.3	158.5	316.0	247.7	633.8	1650.1	1702.0	1810.4	1446.1
72.5°	82.0	86.5	108.4	133.9	222.2	167.6	245.0	1172.0	1254.0	1399.7	1193.9
75°	59.2	61.0	80.1	109.3	155.7	129.3	105.6	604.7	687.5	826.0	742.2
77.5°	37.3	40.1	54.6	82.0	139.3	98.4	62.8	220.4	277.7	359.7	324.2
80°	21.9	22.8	32.8	56.5	93.8	72.9	40.1	78.3	94.7	133.9	86.5
82.5°	12.7	13.7	20.9	38.2	61.0	56.5	25.5	40.1	44.6	51.0	18.2
85°	4.6	4.6	14.6	22.8	32.8	28.2	14.6	20.9	22.8	28.2	5.5
87.5°	0.9	0.9	7.3	11.8	11.8	4.6	7.3	9.1	10.9	15.5	1.8
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°	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8
2.5°	310.5	307.8	305.1	301.4	298.7	293.2	290.5	286.9	285.9	284.1	283.2
5°	317.8	313.3	306.9	297.8	292.3	284.1	278.7	273.2	272.3	270.5	269.6
7.5°	327.8	323.3	315.1	305.1	296.0	287.8	281.4	273.2	265.0	258.6	258.6
10°	344.2	338.8	327.8	318.7	307.8	290.5	260.4	233.1	215.8	204.9	201.3
12.5°	364.3	357.0	345.1	334.2	313.3	258.6	212.2	176.7	147.5	133.9	131.1
15°	385.2	378.8	367.0	350.6	287.8	215.8	154.8	100.2	71.9	59.2	61.0
17.5°	408.0	398.9	385.2	352.4	253.2	161.2	82.9	51.0	43.7	41.9	41.9
20°	431.6	419.8	406.2	332.4	208.5	92.9	47.4	38.2	35.5	32.8	33.7
22.5°	457.1	442.6	421.6	302.3	149.3	50.1	36.4	31.0	27.3	26.4	26.4
25°	484.5	463.5	437.1	267.7	86.5	38.2	30.1	24.6	21.9	20.9	20.0
27.5°	513.6	487.2	440.8	222.2	49.2	31.9	23.7	19.1	16.4	15.5	15.5
30°	540.0	510.9	432.6	164.8	37.3	26.4	19.1	14.6	12.7	12.7	12.7
32.5°	575.5	537.3	407.1	102.9	30.1	20.9	14.6	11.8	10.0	10.0	10.0
35°	622.0	576.4	381.6	54.6	24.6	17.3	11.8	9.1	8.2	8.2	8.2
37.5°	685.7	628.4	358.8	34.6	20.0	13.7	9.1	7.3	6.4	6.4	6.4
40°	751.3	690.3	326.9	26.4	16.4	10.9	7.3	5.5	4.6	4.6	5.5
42.5°	833.2	762.2	290.5	22.8	13.7	9.1	5.5	3.6	2.7	3.6	3.6
45°	916.1	837.8	239.5	19.1	11.8	7.3	3.6	1.8	1.8	2.7	2.7
47.5°	1001.7	917.9	185.8	16.4	10.0	5.5	2.7	0.9	0.9	1.8	1.8
50°	1090.1	997.2	138.4	14.6	8.2	4.6	1.8	0.9	0.0	0.9	0.9
52.5°	1178.4	1073.7	107.5	12.7	7.3	3.6	0.9	0.0	0.0	0.0	0.9
55°	1260.3	1142.9	85.6	10.9	6.4	2.7	0.9	0.0	0.0	0.0	0.0
57.5°	1329.6	1193.9	68.3	10.0	5.5	1.8	0.9	0.0	0.0	0.0	0.0
60°	1395.1	1233.9	52.8	8.2	4.6	1.8	0.9	0.0	0.0	0.0	0.0
62.5°	1441.6	1249.4	42.8	7.3	3.6	1.8	0.0	0.0	0.0	0.0	0.0
64°	1461.6	1251.2	37.3	6.4	3.6	1.8	0.9	0.0	0.0	0.0	0.0
65°	1473.4	1245.8	34.6	6.4	3.6	1.8	0.9	0.0	0.0	0.0	0.0
67.5°	1476.2	1215.7	26.4	5.5	2.7	0.9	0.9	0.0	0.0	0.0	0.0
70°	1396.0	1111.0	19.1	3.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1166.5	848.7	12.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	728.5	367.0	7.3	2.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	301.4	111.1	4.6	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	69.2	26.4	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	16.4	4.6	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.9	0.9	0.9	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)