

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: P594943

Luminaire Tested: **IST-PA1A-727-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-727-U-T3  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3411 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

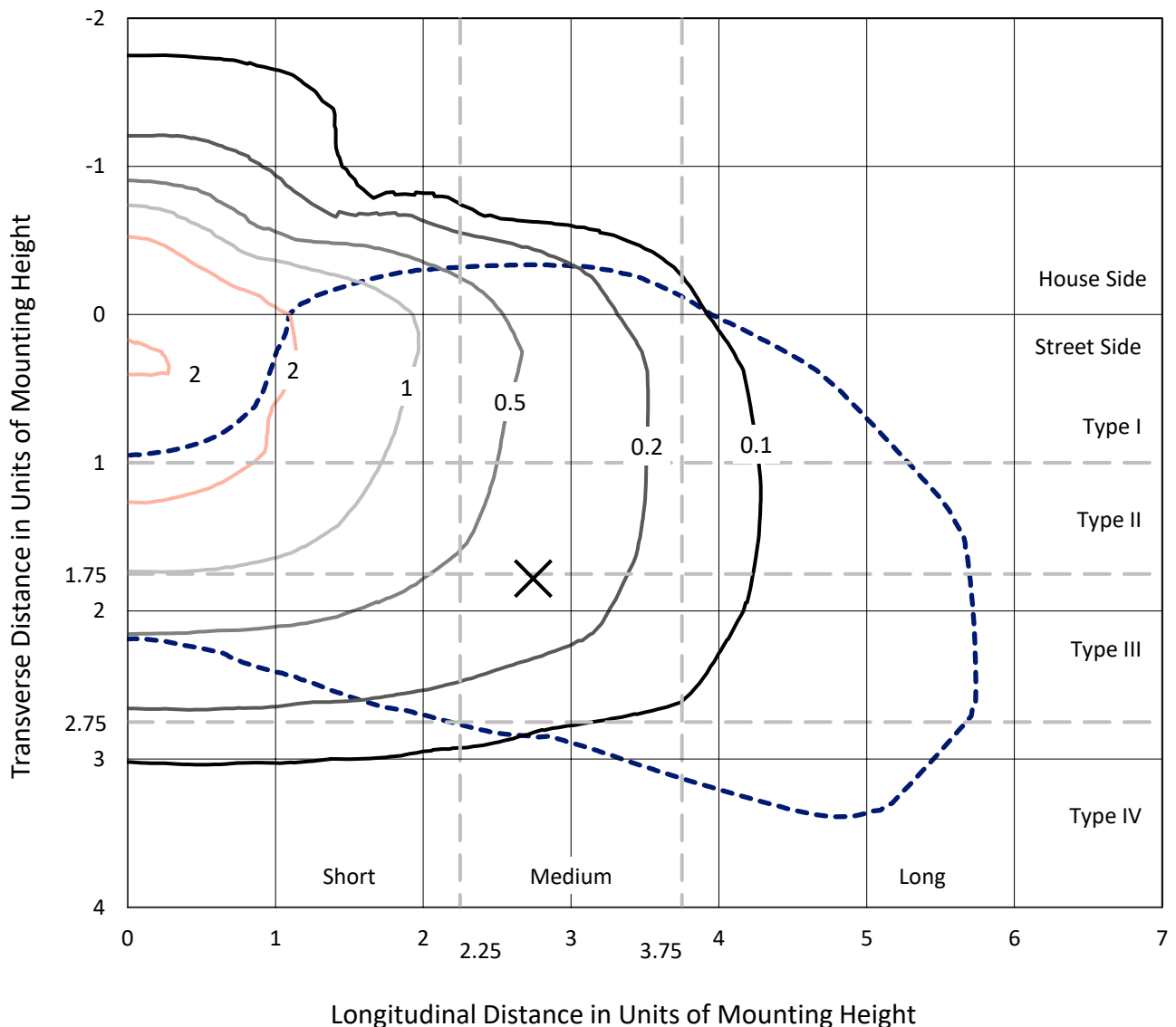
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

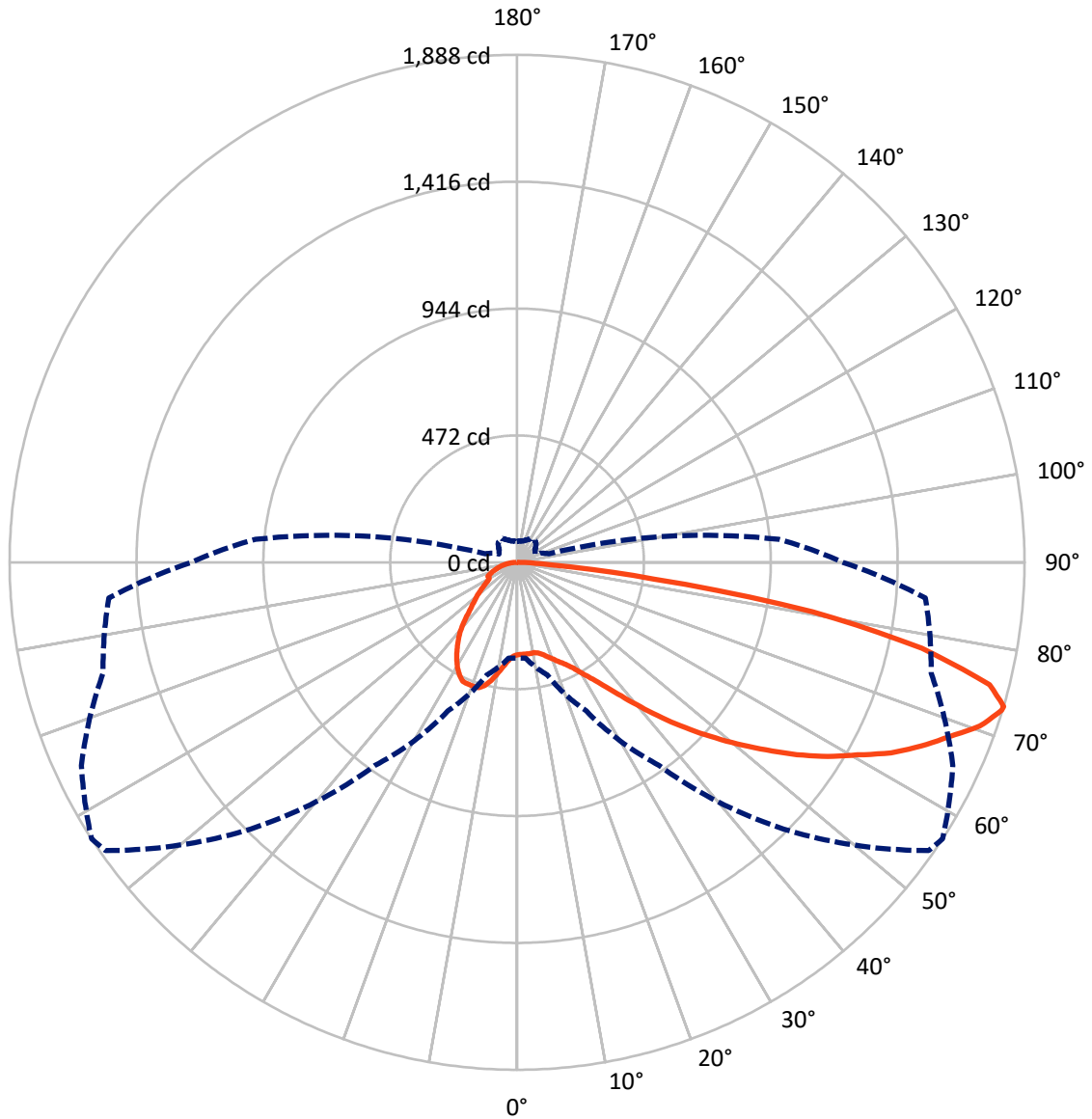
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	813.8	0.0	813.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2597.2	0.0	2597.2
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3411.0	0.0	3411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.3	1.0
10°-20°	112.8	3.3
20°-30°	208.3	6.1
30°-40°	321.7	9.4
40°-50°	484.2	14.2
50°-60°	708.7	20.8
60°-70°	836.9	24.5
70°-80°	599.2	17.6
80°-90°	105.0	3.1
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°	3411.0	100.0
0°-180°	3411.0	100.0

**Coefficient of Utilization**

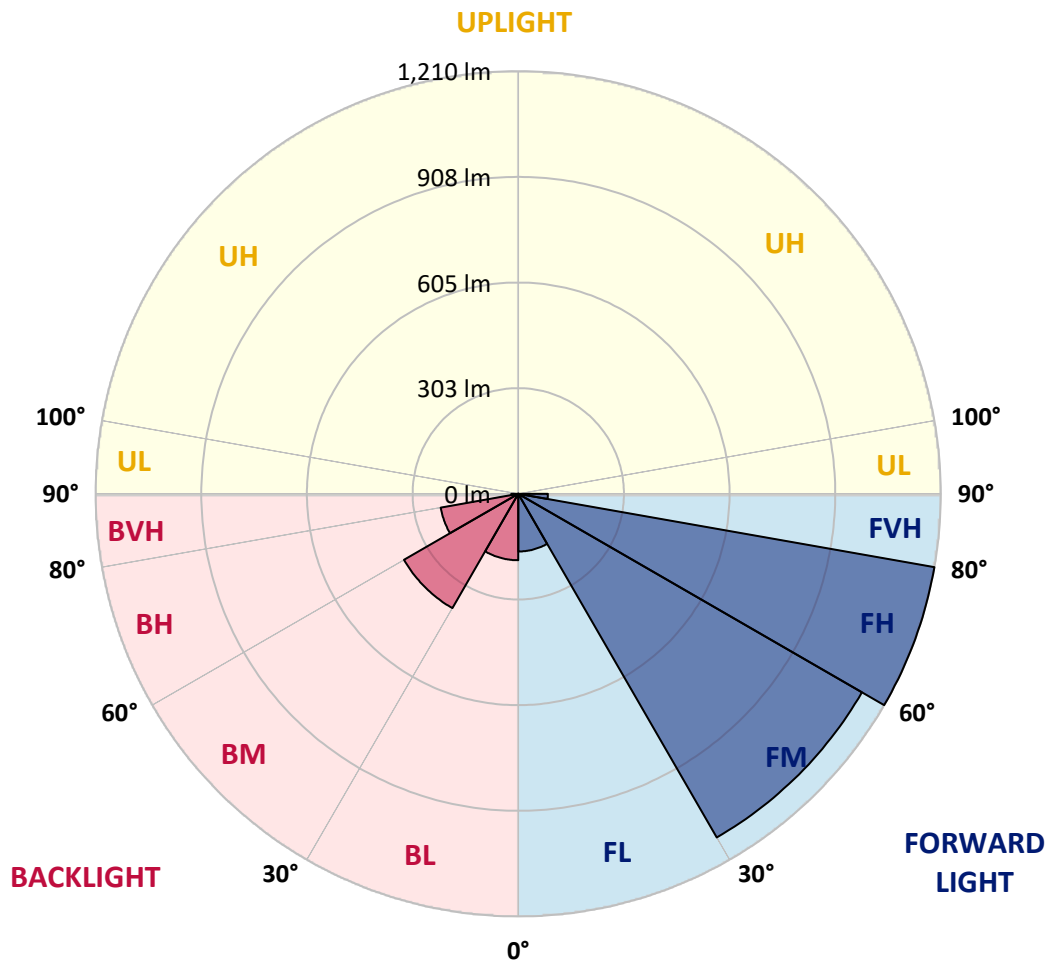


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.3	4.8			
FM (30°-60°)	1136.6	33.3			
FH (60°-80°)	1210.4	35.5			G1/1800
FVH (80°-90°)	84.9	2.5			G1/100
BL (0°-30°)	190.2	5.6	B1/500		
BM (30°-60°)	377.9	11.1	B1/1000		
BH (60°-80°)	225.6	6.6	B1/500		G1/500
BVH (80°-90°)	20.1	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	339.5	341.2	340.3	341.2	343.7	342.0	342.0	342.8	343.7	342.8	344.5
5°	325.3	326.1	327.8	331.1	337.0	338.6	342.8	342.8	344.5	346.2	348.7
7.5°	301.9	303.5	306.9	310.2	320.2	330.3	341.2	342.8	348.7	352.9	354.5
10°	297.7	299.3	300.2	305.2	315.2	325.3	338.6	342.0	352.9	359.5	367.1
12.5°	293.5	295.2	297.7	304.4	316.9	327.8	342.0	345.3	358.7	372.1	381.3
15°	296.8	297.7	300.2	306.9	319.4	334.5	352.9	355.4	370.4	387.1	401.4
17.5°	305.2	306.0	305.2	311.0	322.8	340.3	365.4	369.6	388.0	404.7	418.9
20°	324.4	325.3	321.9	321.9	330.3	347.8	378.8	384.6	407.2	425.6	439.8
22.5°	366.2	364.6	356.2	345.3	345.3	359.5	393.8	402.2	430.6	445.7	458.2
25°	425.6	425.6	412.2	392.2	378.8	377.1	411.4	420.6	454.0	472.4	480.0
27.5°	497.5	498.3	476.6	449.9	423.9	411.4	436.5	445.7	483.3	502.5	505.0
30°	561.1	561.9	540.2	515.1	483.3	455.7	469.9	480.0	523.4	538.5	530.1
32.5°	624.6	625.4	610.4	576.1	542.7	508.4	512.6	518.4	562.7	576.9	563.6
35°	679.8	682.3	667.3	641.3	606.2	575.3	567.7	568.6	608.7	617.9	600.4
37.5°	735.8	735.8	726.6	702.4	672.3	638.0	628.0	630.5	666.4	675.6	650.5
40°	806.9	810.2	805.2	775.1	740.8	712.4	702.4	705.7	745.0	740.0	713.2
42.5°	893.0	900.5	892.2	859.6	822.8	791.0	791.0	791.0	824.4	825.3	785.1
45°	1003.4	1003.4	995.0	966.6	918.1	886.3	875.5	878.0	907.2	910.6	863.7
47.5°	1095.4	1103.7	1094.5	1073.6	1035.2	1005.1	970.8	966.6	990.8	990.8	950.7
50°	1169.8	1184.8	1177.3	1186.5	1158.9	1143.9	1073.6	1061.9	1070.3	1078.6	1034.3
52.5°	1231.7	1243.4	1240.9	1267.6	1281.0	1289.4	1178.1	1159.7	1166.4	1165.6	1125.5
55°	1235.8	1240.0	1277.6	1337.8	1390.5	1429.8	1283.5	1263.4	1256.7	1253.4	1222.5
57.5°	1211.6	1214.1	1289.4	1360.4	1475.0	1520.1	1383.0	1362.9	1353.7	1342.0	1329.5
60°	1153.1	1165.6	1264.3	1373.8	1525.1	1590.4	1475.8	1454.9	1448.2	1423.1	1451.6
62.5°	1078.6	1084.5	1183.2	1346.2	1531.8	1620.5	1573.6	1561.1	1540.2	1504.2	1560.3
65°	973.3	972.4	1059.4	1265.1	1497.6	1635.5	1656.4	1649.7	1623.8	1561.9	1657.3
67.5°	799.4	818.6	903.9	1121.3	1414.8	1650.6	1740.9	1732.5	1691.5	1613.8	1703.2
70°	609.6	621.3	718.3	905.6	1250.1	1609.6	1823.7	1826.2	1751.7	1624.6	1683.2
72.5°	388.8	408.9	485.8	659.7	1000.9	1457.4	1873.0	1884.7	1785.2	1609.6	1558.6
73°	356.2	357.9	433.1	610.4	923.1	1403.1	1869.6	1888.0	1788.5	1594.5	1524.3
75°	212.4	221.6	266.7	405.5	658.9	1127.1	1779.3	1816.1	1771.0	1527.7	1336.2
77.5°	99.5	106.2	131.3	214.1	358.7	678.1	1495.9	1539.4	1569.5	1337.0	1018.4
80°	52.7	53.5	64.4	107.9	192.3	279.3	1042.7	1114.6	1157.2	1006.7	684.8
82.5°	44.3	44.3	50.2	69.4	122.9	108.7	429.8	511.7	627.1	495.8	269.2
85°	36.0	36.8	50.2	51.8	87.8	56.0	102.8	128.8	243.3	219.1	30.1
87.5°	11.7	13.4	28.4	36.8	46.8	21.7	25.9	28.4	28.4	41.8	10.0
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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	345.3	345.3	346.2	347.0	348.7	348.7	350.3	351.2	352.9	353.7	351.2
5°	348.7	350.3	352.0	357.0	362.9	367.9	372.9	377.1	381.3	383.8	383.0
7.5°	357.9	360.4	367.1	376.3	388.0	395.5	403.0	410.6	413.9	415.6	415.6
10°	370.4	375.4	388.0	403.0	416.4	428.1	434.0	439.0	440.7	442.3	440.7
12.5°	388.0	394.7	413.9	433.1	448.2	454.0	453.2	446.5	437.3	435.6	434.0
15°	410.6	418.9	440.7	463.2	474.9	467.4	448.2	441.5	439.8	444.8	443.2
17.5°	429.8	439.8	466.6	490.0	487.5	461.6	455.7	459.0	457.4	458.2	458.2
20°	448.2	462.4	490.8	506.7	485.0	468.2	463.2	459.0	454.0	455.7	454.0
22.5°	471.6	481.6	514.2	515.1	481.6	468.2	457.4	449.0	447.3	448.2	449.0
25°	490.0	505.9	534.3	509.2	481.6	454.9	439.8	438.1	439.0	444.0	442.3
27.5°	515.1	531.0	550.2	505.9	461.6	433.1	427.3	426.4	420.6	422.3	422.3
30°	538.5	557.7	558.6	505.9	436.5	414.7	406.4	391.3	378.8	381.3	380.5
32.5°	570.3	587.0	560.2	485.8	408.0	390.5	367.9	344.5	338.6	342.0	342.8
35°	607.0	620.4	561.9	452.4	379.6	356.2	315.2	301.9	301.0	303.5	306.0
37.5°	655.5	663.1	574.4	413.9	352.0	302.7	270.9	267.6	260.0	255.0	255.9
40°	714.9	705.7	598.7	379.6	319.4	254.2	240.8	231.6	217.4	203.2	205.7
42.5°	781.0	755.0	606.2	352.0	275.1	224.1	211.5	197.3	179.8	164.7	163.9
45°	852.0	810.2	599.5	330.3	230.8	201.5	188.1	171.4	150.5	138.0	138.0
47.5°	936.5	862.9	578.6	312.7	199.8	181.4	164.7	148.0	133.8	122.1	122.1
50°	1029.3	924.0	563.6	281.8	178.1	162.2	145.5	132.1	121.2	112.0	112.0
52.5°	1127.1	981.6	551.0	236.6	158.9	144.7	132.9	122.1	112.9	101.2	99.5
55°	1226.6	1036.8	556.9	193.2	141.3	132.1	124.6	113.7	110.4	107.9	106.2
57.5°	1330.3	1097.0	571.1	158.0	126.3	125.4	122.1	129.6	137.1	132.1	129.6
60°	1411.4	1143.9	572.8	132.9	117.1	132.1	148.8	151.3	131.3	119.6	118.7
62.5°	1475.8	1188.2	533.5	115.4	119.6	155.5	158.9	133.8	113.7	108.7	108.7
65°	1509.3	1204.1	428.9	105.4	124.6	148.8	143.8	120.4	106.2	105.4	105.4
67.5°	1492.5	1191.5	300.2	94.5	110.4	128.8	128.8	110.4	97.8	102.0	100.3
70°	1412.3	1129.6	198.2	85.3	97.0	116.2	119.6	102.8	91.1	93.6	91.1
72.5°	1245.0	1019.3	130.4	75.3	83.6	102.8	111.2	94.5	83.6	82.8	80.3
73°	1212.4	977.5	122.9	73.6	81.1	99.5	108.7	92.8	81.9	79.4	77.8
75°	1028.5	815.3	92.8	66.1	71.9	89.5	101.2	87.0	75.3	71.9	70.2
77.5°	749.2	565.2	69.4	56.0	60.2	77.8	89.5	79.4	66.9	62.7	61.9
80°	467.4	307.7	51.8	45.2	47.7	65.2	78.6	71.1	57.7	52.7	51.8
82.5°	183.1	100.3	36.0	33.4	35.1	49.3	66.1	61.9	48.5	44.3	41.8
85°	30.1	34.3	23.4	22.6	22.6	35.1	50.2	47.7	32.6	28.4	25.1
87.5°	8.4	15.9	9.2	8.4	8.4	15.1	27.6	21.7	13.4	10.9	10.0
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)