

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: P594500

Luminaire Tested: **ISS-PA1A-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-827-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3118 lumens
Efficiency: N/A
Efficacy: 107.9 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

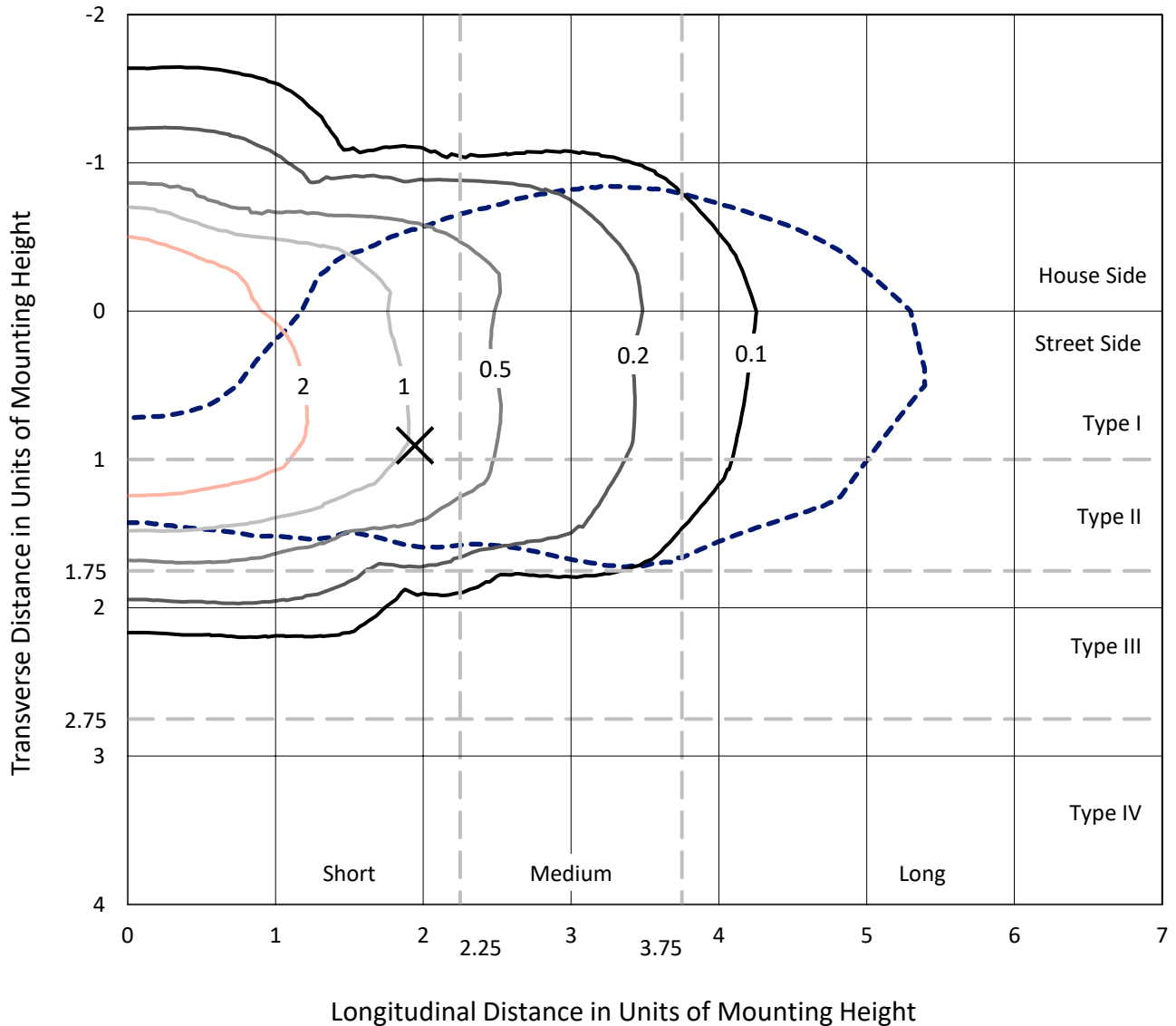
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

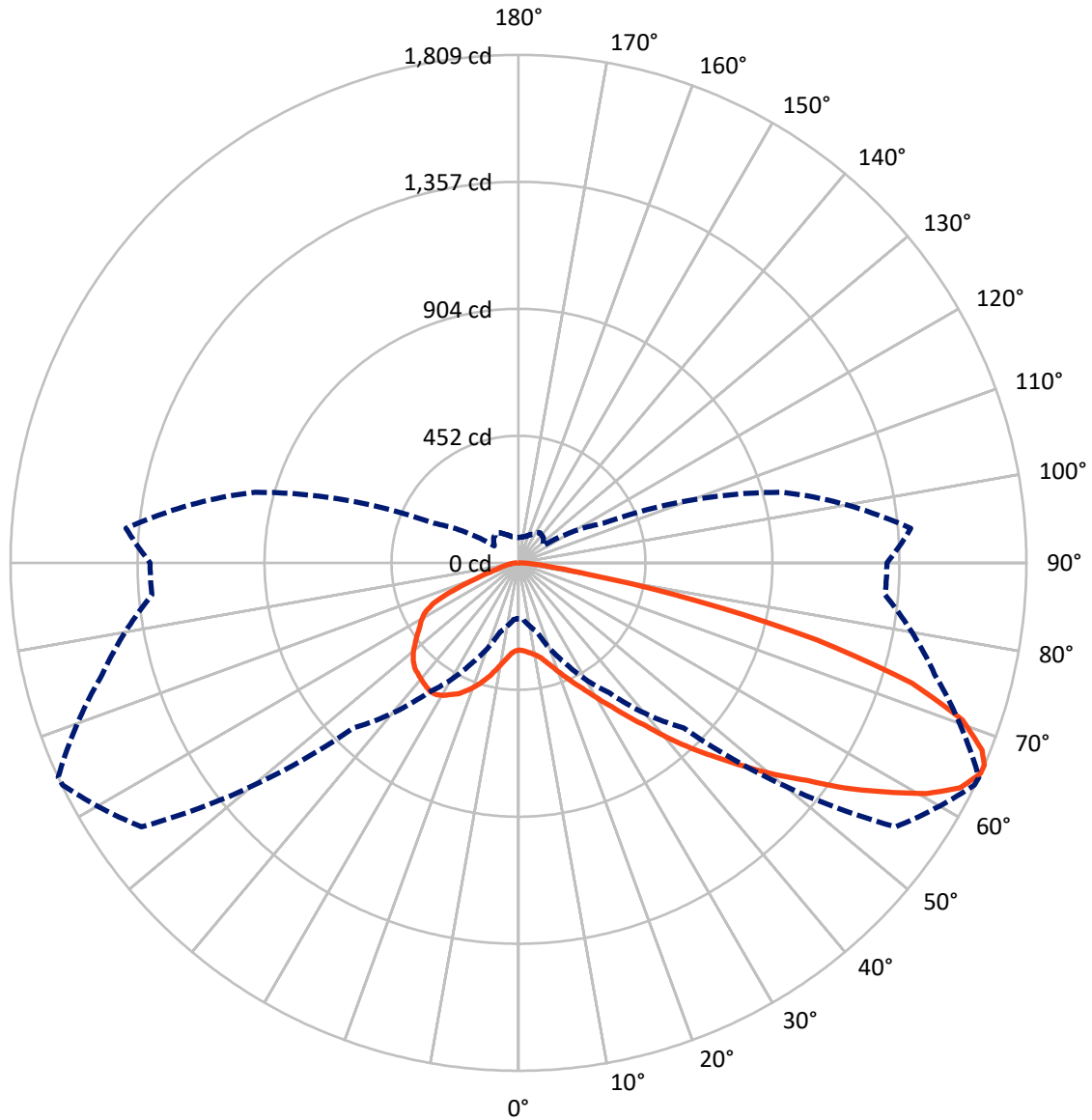
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.7	0.0	946.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2171.3	0.0	2171.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	3118.0	0.0	3118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	1.0
10°-20°	110.5	3.5
20°-30°	216.4	6.9
30°-40°	353.6	11.3
40°-50°	561.3	18.0
50°-60°	721.9	23.2
60°-70°	651.0	20.9
70°-80°	403.8	13.0
80°-90°	67.7	2.2
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°	3118.0	100.0
0°-180°	3118.0	100.0

Coefficient of Utilization

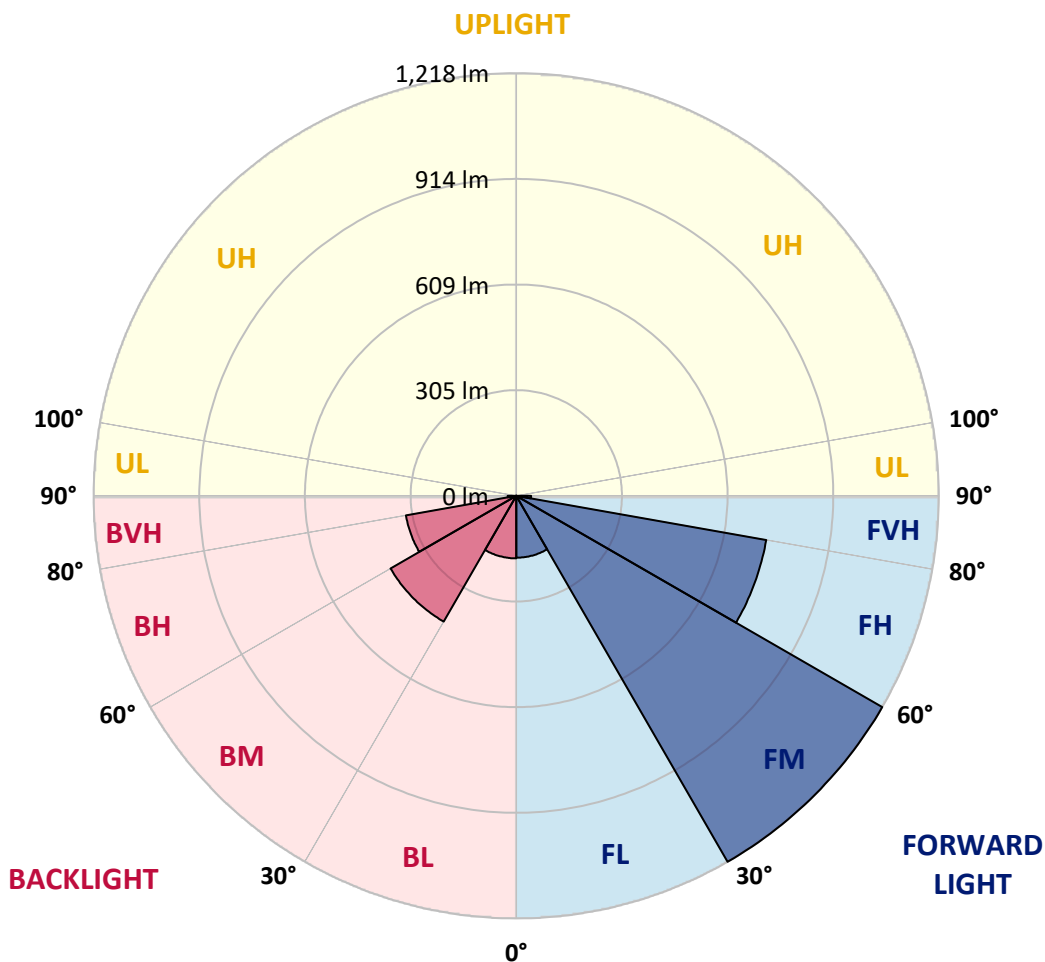


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.3	5.7			
FM (30°-60°)	1218.3	39.1			
FH (60°-80°)	731.8	23.5			G1/1800
FVH (80°-90°)	42.8	1.4			G1/100
BL (0°-30°)	180.3	5.8	B1/500		
BM (30°-60°)	418.5	13.4	B1/1000		
BH (60°-80°)	323.0	10.4	B1/500		G1/500
BVH (80°-90°)	24.9	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8
2.5°	311.5	312.3	313.1	311.5	313.1	313.8	312.3	312.3	313.1	311.5	311.5
5°	309.3	310.0	311.5	312.3	315.3	316.8	317.6	317.6	318.4	317.6	318.4
7.5°	303.2	303.2	306.3	307.8	312.3	317.6	320.6	325.2	325.2	325.9	328.2
10°	309.3	309.3	311.5	313.8	317.6	322.1	326.7	332.0	333.5	338.8	341.8
12.5°	318.4	319.9	322.9	325.9	330.5	335.7	339.5	344.8	345.6	350.9	356.9
15°	333.5	335.0	336.5	340.3	346.3	353.1	359.9	363.7	365.2	368.3	372.8
17.5°	356.2	357.7	358.4	360.7	365.2	374.3	384.1	387.2	388.7	388.7	392.5
20°	394.7	394.0	392.5	387.9	387.9	396.2	409.9	415.1	416.7	413.6	411.4
22.5°	439.3	438.6	432.5	427.2	423.5	425.0	438.6	447.7	446.9	440.9	431.8
25°	497.6	499.1	489.2	475.6	464.3	461.3	469.6	478.7	480.2	468.8	453.7
27.5°	567.1	564.9	559.6	537.6	515.7	502.1	506.6	516.5	517.2	505.1	480.9
30°	648.8	645.0	631.4	608.7	574.7	555.8	552.0	560.3	562.6	542.2	507.4
32.5°	739.5	735.8	718.4	683.6	646.5	614.8	602.7	614.0	612.5	589.1	540.7
35°	849.2	848.4	816.7	773.6	726.7	684.3	667.7	667.7	672.2	637.5	583.0
37.5°	995.9	1001.9	955.1	887.8	822.0	765.3	737.3	735.8	736.5	698.7	630.7
40°	1128.2	1126.0	1098.7	1036.0	939.9	867.3	825.7	816.7	818.9	770.5	692.7
42.5°	1204.6	1206.9	1200.1	1172.8	1088.9	997.4	926.3	902.1	902.9	842.4	751.6
45°	1252.2	1254.5	1253.7	1267.4	1234.1	1147.9	1046.6	990.6	987.6	924.1	821.2
47.5°	1279.5	1281.0	1290.8	1318.8	1346.0	1326.3	1179.6	1088.9	1082.9	1000.4	890.8
50°	1249.2	1250.0	1289.3	1355.8	1422.4	1482.1	1315.8	1186.4	1184.9	1085.1	958.8
52.5°	1090.4	1104.0	1191.0	1330.1	1479.1	1592.5	1473.0	1301.4	1288.5	1165.3	1026.9
55°	890.0	896.1	995.9	1172.8	1468.5	1660.6	1591.8	1425.4	1416.3	1254.5	1093.4
57.5°	694.9	701.0	819.7	967.2	1306.7	1656.8	1675.7	1559.2	1538.8	1332.4	1160.0
60°	448.4	467.3	604.9	786.4	1057.9	1541.9	1718.0	1687.8	1668.9	1409.5	1216.7
62.5°	304.7	307.8	394.0	583.0	791.7	1253.0	1715.0	1767.2	1764.2	1486.7	1273.4
65°	198.1	202.7	254.8	394.7	566.4	831.8	1639.4	1805.8	1808.8	1534.3	1310.5
66°	167.9	170.9	211.0	332.0	496.1	659.4	1572.9	1802.7	1808.8	1556.2	1321.8
67.5°	145.9	148.2	168.6	245.0	405.3	474.1	1399.7	1762.7	1780.1	1576.6	1336.2
70°	125.5	128.6	147.5	167.1	289.6	276.8	886.2	1659.8	1677.2	1586.5	1345.2
72.5°	103.6	105.9	124.8	151.2	210.2	186.0	390.9	1420.9	1464.7	1550.2	1330.9
75°	81.7	83.2	100.6	126.3	161.1	145.2	170.1	1042.0	1097.2	1366.4	1274.9
77.5°	63.5	64.3	77.9	98.3	147.5	112.7	105.1	507.4	642.0	1055.6	1122.9
80°	43.9	45.4	57.5	74.1	108.1	89.2	70.3	198.1	251.8	701.0	851.5
82.5°	28.7	29.5	39.3	56.0	71.8	85.4	46.1	96.0	105.9	322.9	369.0
85°	19.7	19.7	28.0	34.8	49.2	56.7	30.2	50.7	55.2	122.5	44.6
87.5°	9.8	9.8	13.6	18.1	23.4	21.9	18.1	18.1	18.1	40.1	12.9
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°	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8	310.8
2.5°	312.3	312.3	313.1	313.8	314.6	314.6	315.3	315.3	314.6	315.3	316.1
5°	319.1	319.9	321.4	323.6	327.4	331.2	335.0	337.3	339.5	340.3	338.8
7.5°	329.7	331.2	336.5	342.5	348.6	357.7	363.0	366.0	367.5	369.0	367.5
10°	343.3	346.3	353.9	364.5	375.1	386.4	392.5	397.0	397.8	399.3	397.8
12.5°	359.2	364.5	375.8	390.9	403.8	415.1	419.7	416.7	409.9	406.8	406.1
15°	378.1	383.4	399.3	418.2	433.3	438.6	431.8	421.9	414.4	413.6	412.9
17.5°	394.7	402.3	424.2	443.9	458.2	453.0	434.8	428.8	426.5	429.5	428.8
20°	415.9	421.9	443.9	468.1	475.6	455.2	442.4	438.6	436.3	436.3	434.8
22.5°	433.3	437.8	464.3	490.8	486.2	456.7	447.7	440.1	432.5	431.8	429.5
25°	453.7	455.2	483.2	511.9	487.7	458.2	442.4	429.5	421.9	419.7	420.4
27.5°	472.6	476.4	500.6	526.3	484.0	449.9	424.2	407.6	396.2	395.5	395.5
30°	496.8	496.8	518.7	542.2	475.6	428.8	394.7	370.5	361.5	360.7	359.2
32.5°	524.0	519.5	540.7	553.5	457.5	400.0	354.6	327.4	313.1	310.0	307.8
35°	561.8	552.0	567.1	555.8	439.3	359.2	304.0	273.0	262.4	257.9	257.9
37.5°	605.7	591.3	607.2	549.0	411.4	311.5	251.1	227.6	216.3	209.5	211.7
40°	657.1	639.0	648.0	541.4	381.1	258.6	207.2	192.8	179.2	170.1	170.1
42.5°	717.6	687.4	694.2	533.9	338.0	212.5	179.2	169.4	158.8	149.7	152.0
45°	775.8	746.4	739.5	526.3	292.6	181.5	167.9	161.1	151.2	140.6	140.6
47.5°	843.1	805.3	779.6	512.7	248.0	171.7	170.9	161.1	142.2	127.0	125.5
50°	906.7	871.9	815.9	492.3	223.1	180.0	170.1	146.7	128.6	118.7	118.0
52.5°	974.0	937.7	845.4	467.3	210.2	176.2	156.5	134.6	121.0	111.2	108.9
55°	1040.5	1021.6	871.9	443.1	189.8	164.1	145.2	127.0	112.7	103.6	102.1
57.5°	1116.1	1108.6	894.6	418.9	158.0	149.0	136.9	121.7	108.1	101.3	100.6
60°	1181.9	1208.4	921.8	400.8	134.6	137.6	133.1	121.0	111.2	103.6	103.6
62.5°	1251.5	1304.4	946.0	377.3	117.2	130.8	133.8	120.2	107.4	100.6	100.6
65°	1312.0	1402.7	970.9	334.2	105.1	125.5	131.6	111.9	96.8	91.5	90.0
66°	1337.7	1430.7	978.5	307.8	100.6	121.7	127.8	107.4	92.3	87.7	87.0
67.5°	1367.9	1474.6	987.6	251.1	93.8	113.4	119.5	100.6	84.7	81.7	80.2
70°	1410.3	1483.6	982.3	164.1	81.7	97.5	106.6	90.0	75.6	73.3	71.1
72.5°	1414.8	1421.6	929.3	103.6	71.1	83.9	93.8	80.9	66.5	64.3	62.8
75°	1340.0	1259.8	786.4	74.1	62.8	74.1	82.4	70.3	55.2	52.2	50.7
77.5°	1144.1	999.7	565.6	55.2	54.4	63.5	68.8	61.3	46.1	43.9	43.1
80°	803.1	678.3	283.6	41.6	43.1	52.9	57.5	51.4	38.6	35.5	34.0
82.5°	325.2	288.1	97.5	31.0	32.5	40.1	49.2	42.3	29.5	25.7	22.7
85°	37.1	62.8	42.3	21.2	21.9	27.2	33.3	25.7	17.4	14.4	12.1
87.5°	7.6	13.6	15.1	8.3	7.6	10.6	15.1	9.1	6.0	2.3	3.0
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)