

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: P594592

Luminaire Tested: **ISS-PA1B-827-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594592
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: ISS-PA1B-827-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852 lumens
Efficiency: N/A
Efficacy: 105.8 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

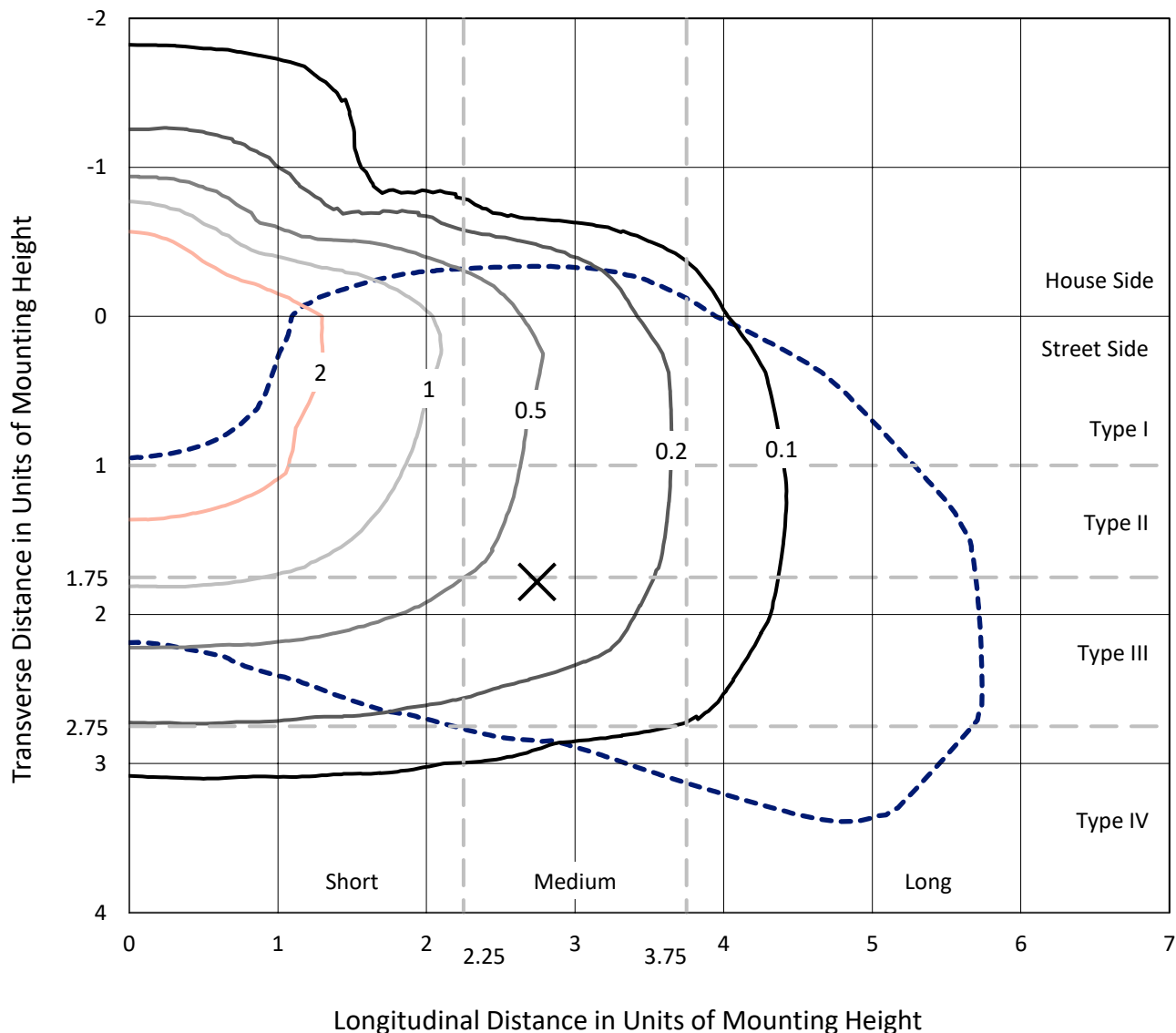
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

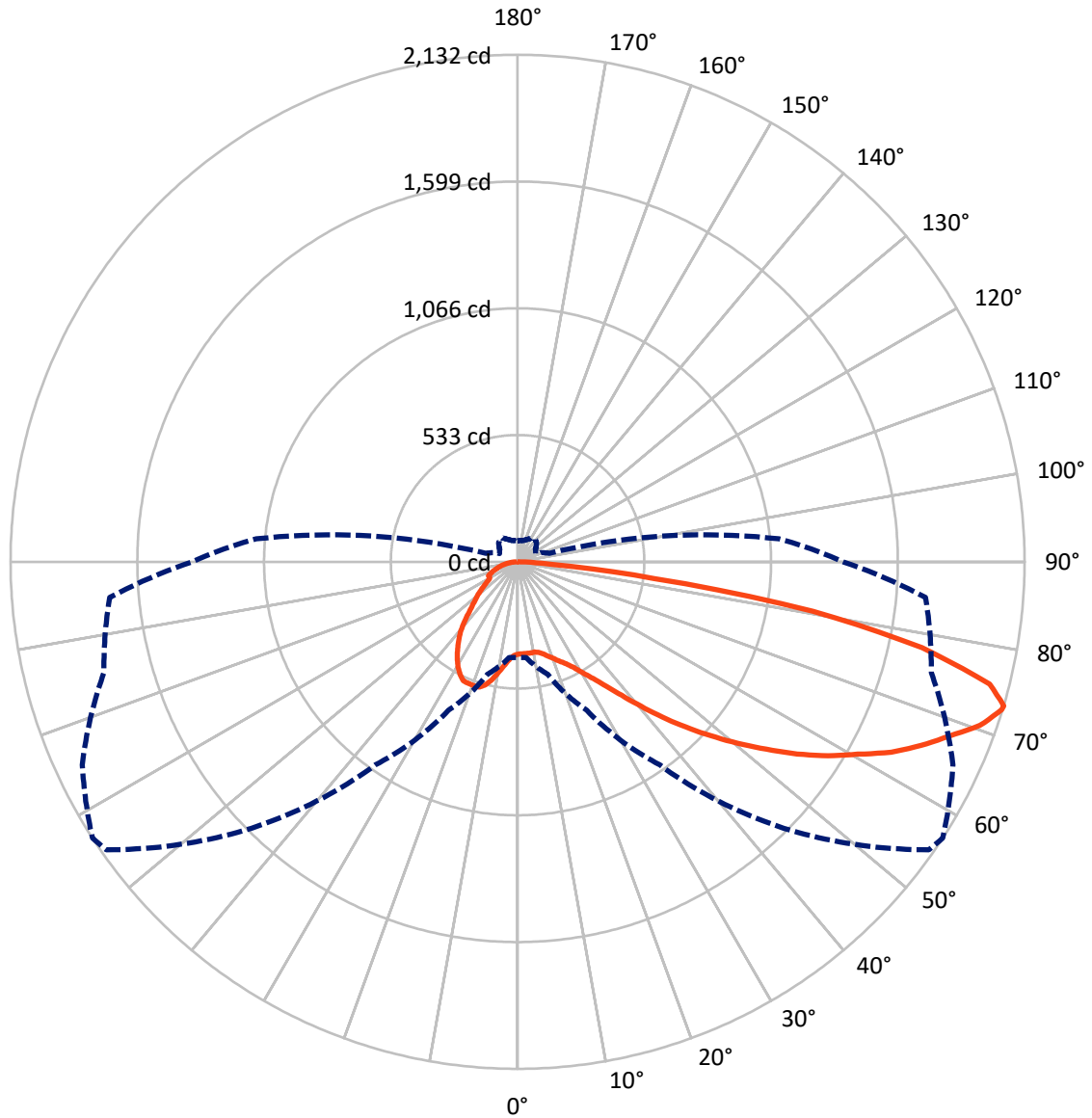
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.3 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
House Side	Lumens	919.0	0.0	919.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	2933.0	0.0	2933.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	3852.0	0.0	3852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.0
10°-20°	127.4	3.3
20°-30°	235.3	6.1
30°-40°	363.3	9.4
40°-50°	546.8	14.2
50°-60°	800.3	20.8
60°-70°	945.1	24.5
70°-80°	676.6	17.6
80°-90°	118.6	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°	3852.0	100.0
0°-180°	3852.0	100.0

Coefficient of Utilization

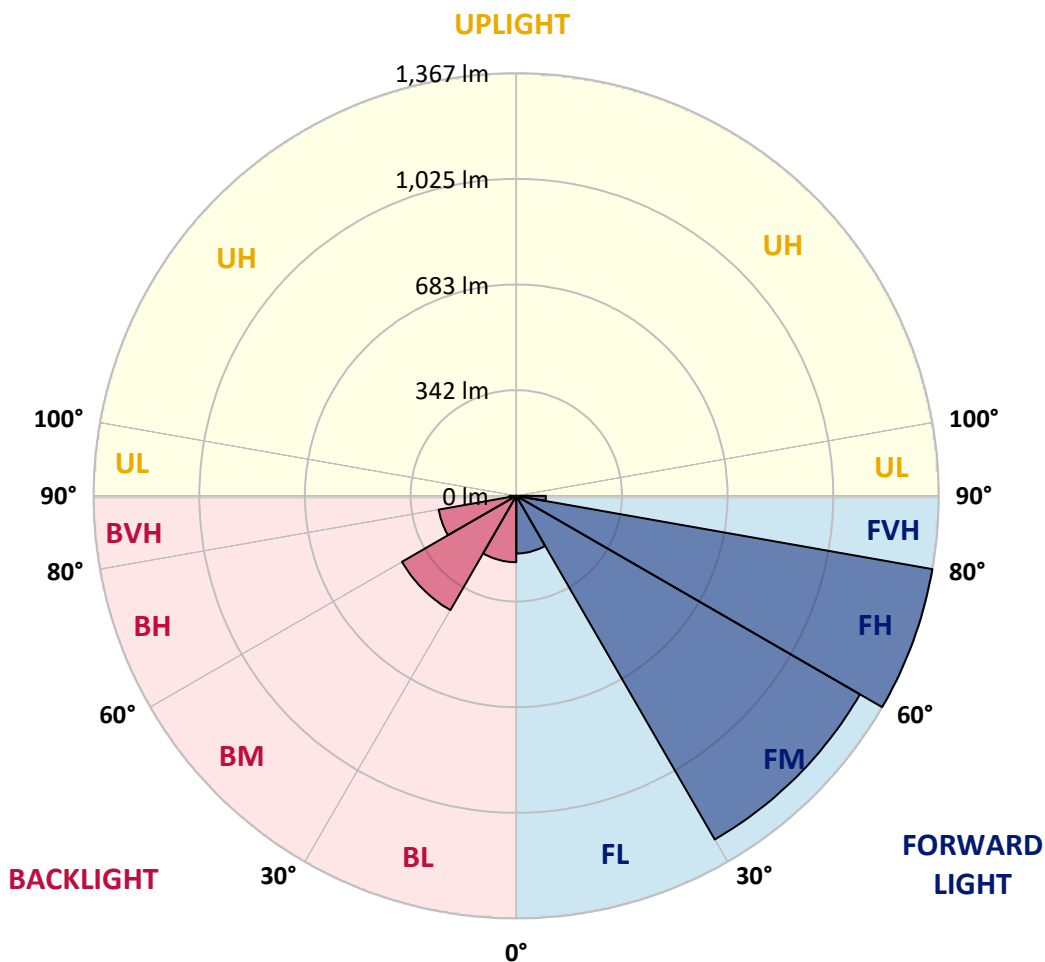


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	186.6	4.8			
FM (30°-60°)	1283.6	33.3			
FH (60°-80°)	1366.9	35.5			G1/1800
FVH (80°-90°)	95.9	2.5			G1/100
BL (0°-30°)	214.8	5.6	B1/500		
BM (30°-60°)	426.8	11.1	B1/1000		
BH (60°-80°)	254.8	6.6	B1/500		G1/500
BVH (80°-90°)	22.6	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°	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1
2.5°	383.4	385.3	384.3	385.3	388.1	386.2	386.2	387.1	388.1	387.1	389.0
5°	367.3	368.3	370.1	373.9	380.5	382.4	387.1	387.1	389.0	390.9	393.8
7.5°	340.9	342.8	346.5	350.3	361.7	373.0	385.3	387.1	393.8	398.5	400.4
10°	336.2	338.0	339.0	344.7	356.0	367.3	382.4	386.2	398.5	406.0	414.5
12.5°	331.4	333.3	336.2	343.7	357.9	370.1	386.2	390.0	405.1	420.2	430.6
15°	335.2	336.2	339.0	346.5	360.7	377.7	398.5	401.3	418.3	437.2	453.2
17.5°	344.7	345.6	344.7	351.3	364.5	384.3	412.6	417.4	438.1	457.0	473.1
20°	366.4	367.3	363.5	363.5	373.0	392.8	427.7	434.4	459.9	480.6	496.7
22.5°	413.6	411.7	402.3	390.0	390.0	406.0	444.7	454.2	486.3	503.3	517.5
25°	480.6	480.6	465.5	442.9	427.7	425.9	464.6	475.0	512.7	533.5	542.0
27.5°	561.8	562.8	538.2	508.0	478.7	464.6	492.9	503.3	545.8	567.5	570.3
30°	633.6	634.5	610.0	581.7	545.8	514.6	530.7	542.0	591.1	608.1	598.7
32.5°	705.4	706.3	689.3	650.6	612.8	574.1	578.8	585.4	635.5	651.5	636.4
35°	767.7	770.5	753.5	724.2	684.6	649.7	641.2	642.1	687.4	697.8	678.0
37.5°	830.9	830.9	820.6	793.2	759.2	720.5	709.1	712.0	752.6	763.0	734.6
40°	911.2	915.0	909.3	875.3	836.6	804.5	793.2	797.0	841.3	835.7	805.5
42.5°	1008.5	1017.0	1007.5	970.7	929.2	893.3	893.3	893.3	931.0	932.0	886.7
45°	1133.1	1133.1	1123.7	1091.6	1036.8	1000.9	988.6	991.5	1024.5	1028.3	975.4
47.5°	1237.0	1246.4	1236.0	1212.4	1169.0	1135.0	1096.3	1091.6	1118.9	1118.9	1073.6
50°	1321.0	1338.0	1329.5	1339.9	1308.7	1291.7	1212.4	1199.2	1208.7	1218.1	1168.0
52.5°	1390.9	1404.1	1401.3	1431.5	1446.6	1456.0	1330.5	1309.7	1317.2	1316.3	1271.0
55°	1395.6	1400.3	1442.8	1510.8	1570.3	1614.7	1449.4	1426.8	1419.2	1415.4	1380.5
57.5°	1368.2	1371.1	1456.0	1536.3	1665.7	1716.7	1561.8	1539.1	1528.8	1515.5	1501.4
60°	1302.1	1316.3	1427.7	1551.4	1722.3	1796.0	1666.6	1643.0	1635.5	1607.1	1639.2
62.5°	1218.1	1224.7	1336.1	1520.3	1729.9	1830.0	1777.1	1762.9	1739.3	1698.7	1762.0
65°	1099.1	1098.2	1196.4	1428.7	1691.2	1847.0	1870.6	1863.0	1833.8	1763.9	1871.5
67.5°	902.7	924.4	1020.7	1266.3	1597.7	1864.0	1965.9	1956.5	1910.2	1822.4	1923.5
70°	688.4	701.6	811.1	1022.6	1411.7	1817.7	2059.4	2062.3	1978.2	1834.7	1900.8
72.5°	439.1	461.7	548.6	745.0	1130.3	1645.8	2115.1	2128.4	2016.0	1817.7	1760.1
73°	402.3	404.1	489.1	689.3	1042.5	1584.5	2111.4	2132.1	2019.8	1800.7	1721.4
75°	239.8	250.2	301.2	458.0	744.1	1272.9	2009.4	2050.9	1999.9	1725.2	1508.9
77.5°	112.4	119.9	148.2	241.7	405.1	765.8	1689.3	1738.4	1772.4	1509.9	1150.1
80°	59.5	60.4	72.7	121.8	217.2	315.4	1177.5	1258.7	1306.9	1136.9	773.3
82.5°	50.0	50.0	56.7	78.4	138.8	122.8	485.3	577.9	708.2	559.9	304.1
85°	40.6	41.5	56.7	58.5	99.1	63.3	116.1	145.4	274.8	247.4	34.0
87.5°	13.2	15.1	32.1	41.5	52.9	24.6	29.3	32.1	32.1	47.2	11.3
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°	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.1
2.5°	390.0	390.0	390.9	391.9	393.8	393.8	395.6	396.6	398.5	399.4	396.6
5°	393.8	395.6	397.5	403.2	409.8	415.5	421.1	425.9	430.6	433.4	432.5
7.5°	404.1	407.0	414.5	424.9	438.1	446.6	455.1	463.6	467.4	469.3	469.3
10°	418.3	424.0	438.1	455.1	470.2	483.5	490.1	495.7	497.6	499.5	497.6
12.5°	438.1	445.7	467.4	489.1	506.1	512.7	511.8	504.2	493.8	492.0	490.1
15°	463.6	473.1	497.6	523.1	536.3	527.8	506.1	498.6	496.7	502.3	500.5
17.5°	485.3	496.7	526.9	553.3	550.5	521.2	514.6	518.4	516.5	517.5	517.5
20°	506.1	522.2	554.3	572.2	547.7	528.8	523.1	518.4	512.7	514.6	512.7
22.5°	532.6	543.9	580.7	581.7	543.9	528.8	516.5	507.1	505.2	506.1	507.1
25°	553.3	571.3	603.4	575.1	543.9	513.7	496.7	494.8	495.7	501.4	499.5
27.5°	581.7	599.6	621.3	571.3	521.2	489.1	482.5	481.6	475.0	476.9	476.9
30°	608.1	629.8	630.8	571.3	492.9	468.4	458.9	441.9	427.7	430.6	429.6
32.5°	644.0	662.9	632.7	548.6	460.8	441.0	415.5	389.0	382.4	386.2	387.1
35°	685.5	700.6	634.5	510.8	428.7	402.3	356.0	340.9	339.9	342.8	345.6
37.5°	740.3	748.8	648.7	467.4	397.5	341.8	305.9	302.2	293.7	288.0	288.9
40°	807.3	797.0	676.1	428.7	360.7	287.1	271.9	261.6	245.5	229.5	232.3
42.5°	881.9	852.7	684.6	397.5	310.7	253.1	238.9	222.8	203.0	186.0	185.1
45°	962.2	915.0	677.0	373.0	260.6	227.6	212.5	193.6	170.0	155.8	155.8
47.5°	1057.6	974.5	653.4	353.2	225.7	204.9	186.0	167.1	151.1	137.9	137.9
50°	1162.4	1043.4	636.4	318.2	201.1	183.2	164.3	149.2	136.9	126.5	126.5
52.5°	1272.9	1108.6	622.3	267.2	179.4	163.4	150.1	137.9	127.5	114.3	112.4
55°	1385.2	1170.9	628.9	218.1	159.6	149.2	140.7	128.4	124.6	121.8	119.9
57.5°	1502.3	1238.9	644.9	178.5	142.6	141.6	137.9	146.4	154.9	149.2	146.4
60°	1593.9	1291.7	646.8	150.1	132.2	149.2	168.1	170.9	148.2	135.0	134.1
62.5°	1666.6	1341.8	602.4	130.3	135.0	175.6	179.4	151.1	128.4	122.8	122.8
65°	1704.4	1359.7	484.4	119.0	140.7	168.1	162.4	136.0	119.9	119.0	119.0
67.5°	1685.5	1345.6	339.0	106.7	124.6	145.4	145.4	124.6	110.5	115.2	113.3
70°	1594.9	1275.7	223.8	96.3	109.5	131.3	135.0	116.1	102.9	105.8	102.9
72.5°	1406.0	1151.1	147.3	85.0	94.4	116.1	125.6	106.7	94.4	93.5	90.6
73°	1369.2	1103.8	138.8	83.1	91.6	112.4	122.8	104.8	92.5	89.7	87.8
75°	1161.4	920.7	104.8	74.6	81.2	101.0	114.3	98.2	85.0	81.2	79.3
77.5°	846.1	638.3	78.4	63.3	68.0	87.8	101.0	89.7	75.5	70.8	69.9
80°	527.8	347.5	58.5	51.0	53.8	73.7	88.8	80.3	65.2	59.5	58.5
82.5°	206.8	113.3	40.6	37.8	39.7	55.7	74.6	69.9	54.8	50.0	47.2
85°	34.0	38.7	26.4	25.5	25.5	39.7	56.7	53.8	36.8	32.1	28.3
87.5°	9.4	17.9	10.4	9.4	9.4	17.0	31.2	24.6	15.1	12.3	11.3
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)