

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: P594594

Luminaire Tested: **ISS-PA1B-827-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3827 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

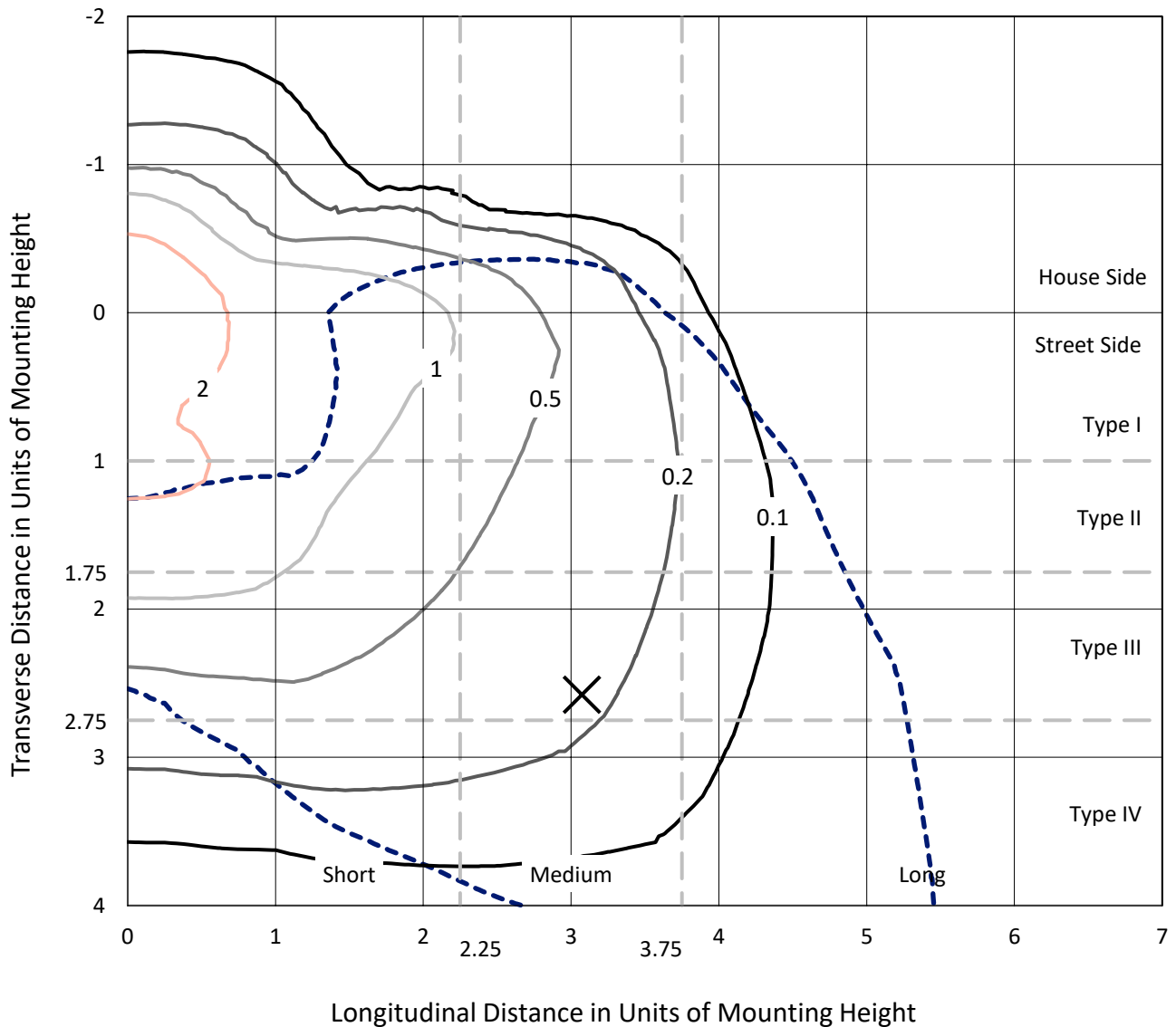
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

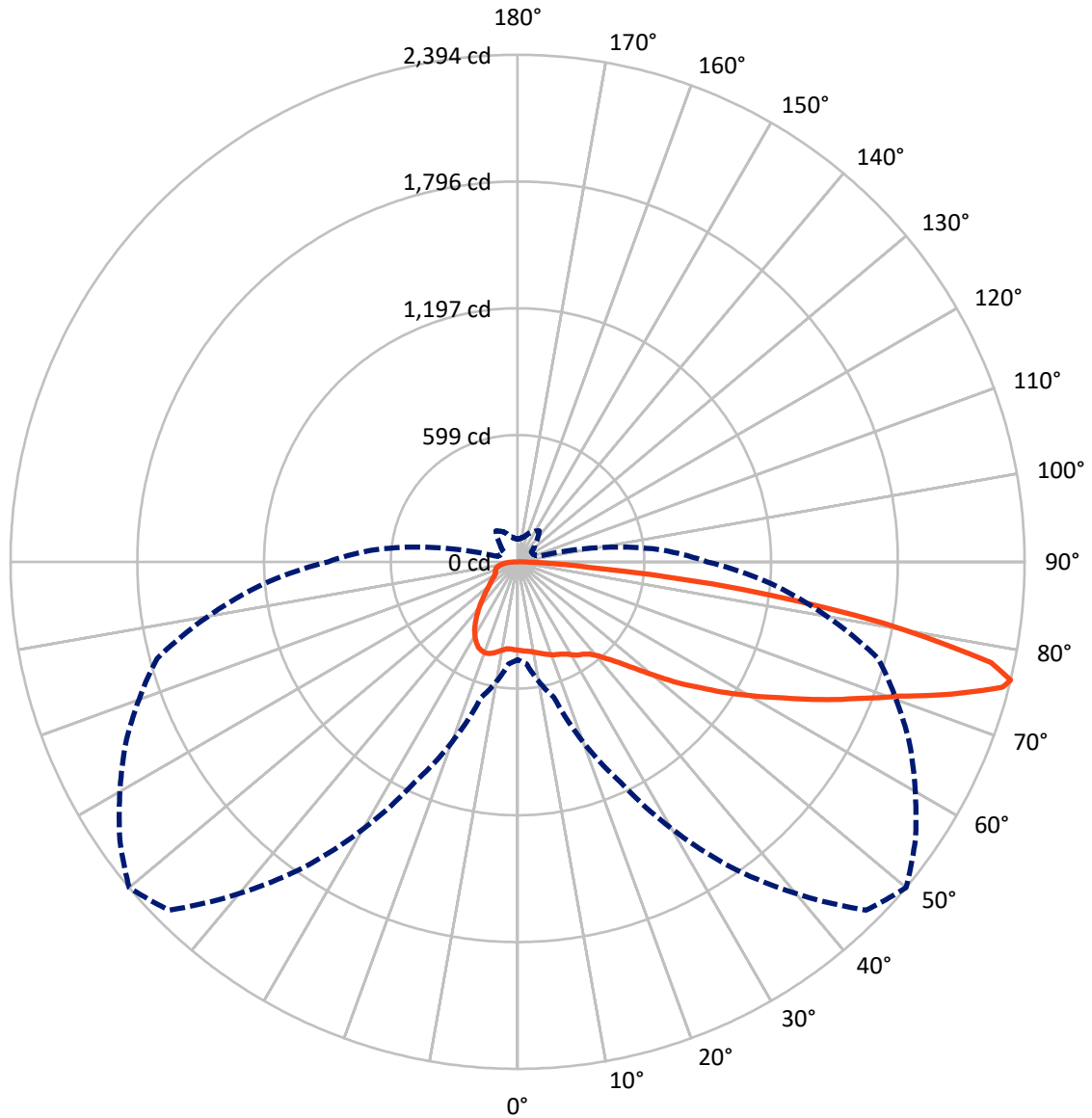
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	875.5	0.0	875.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2951.5	0.0	2951.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	3827.0	0.0	3827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	1.1
10°-20°	127.3	3.3
20°-30°	215.1	5.6
30°-40°	294.9	7.7
40°-50°	434.3	11.3
50°-60°	683.1	17.9
60°-70°	983.3	25.7
70°-80°	894.1	23.4
80°-90°	154.4	4.0
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°	3827.0	100.0
0°-180°	3827.0	100.0

Coefficient of Utilization

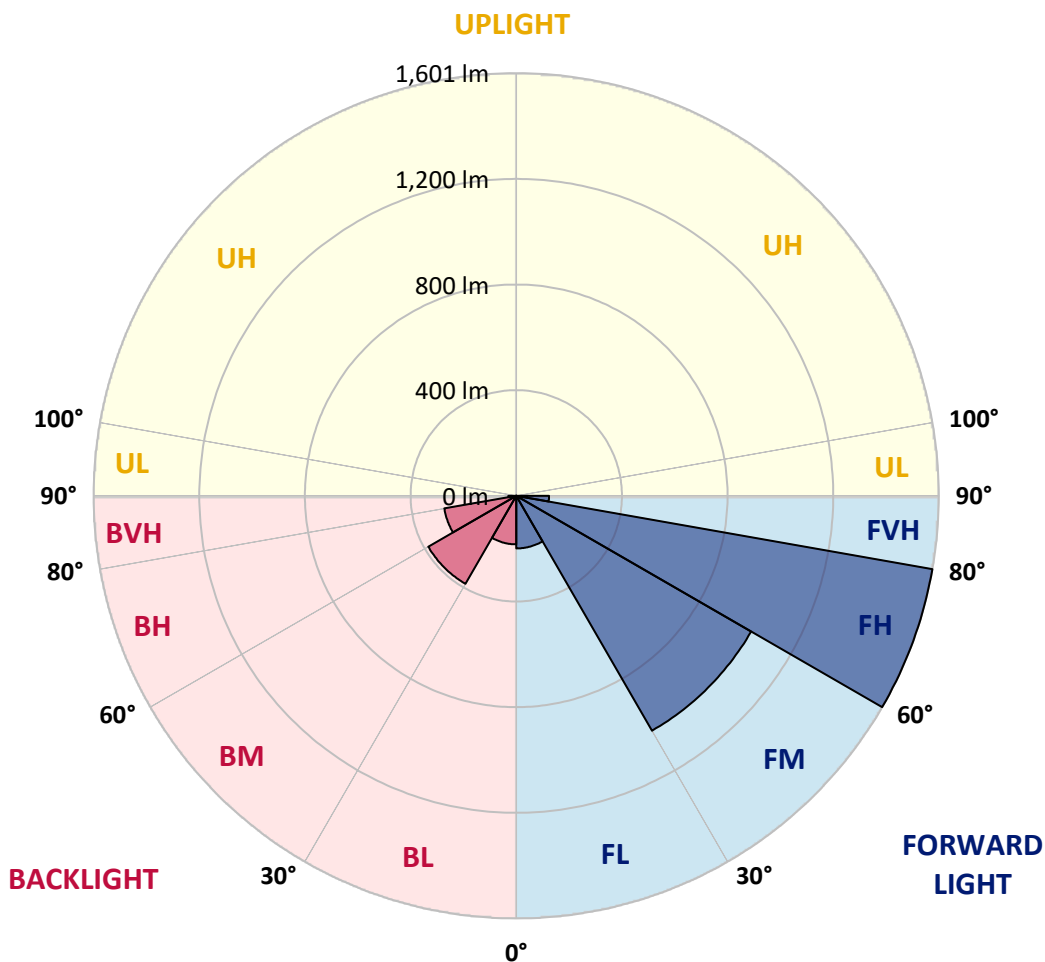


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.2	5.2			
FM (30°-60°)	1027.5	26.8			
FH (60°-80°)	1600.6	41.8			G1/1800
FVH (80°-90°)	124.3	3.2			G2/225
BL (0°-30°)	183.8	4.8	B1/500		
BM (30°-60°)	384.8	10.1	B1/1000		
BH (60°-80°)	276.8	7.2	B1/500		G1/500
BVH (80°-90°)	30.1	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1
2.5°	426.5	426.5	427.4	425.6	425.6	420.9	420.9	419.9	418.1	417.1	415.3
5°	442.4	442.4	439.6	434.9	432.1	426.5	423.7	421.8	418.1	413.4	408.7
7.5°	459.3	457.4	455.6	448.1	442.4	432.1	427.4	424.6	417.1	410.6	407.8
10°	477.1	474.3	469.6	460.3	451.8	439.6	434.0	430.3	421.8	416.2	409.6
12.5°	487.4	487.4	481.8	470.6	459.3	444.3	441.5	436.8	428.4	420.9	414.3
15°	497.7	498.7	493.1	479.9	466.8	455.6	450.9	448.1	438.7	427.4	419.0
17.5°	508.1	507.1	501.5	486.5	472.4	462.1	459.3	455.6	446.2	435.9	427.4
20°	515.6	513.7	511.8	493.1	479.0	472.4	468.7	465.9	456.5	445.3	434.0
22.5°	517.4	519.3	517.4	494.9	483.7	476.2	475.3	472.4	464.9	454.6	443.4
25°	518.4	519.3	522.1	500.6	490.2	484.6	482.8	480.9	475.3	466.8	451.8
27.5°	523.1	524.0	524.0	504.3	498.7	494.9	493.1	493.1	490.2	479.9	464.9
30°	524.0	524.9	526.8	513.7	511.8	509.0	509.9	509.0	504.3	493.1	476.2
32.5°	530.6	531.5	536.2	519.3	521.2	524.0	524.9	524.0	514.6	505.2	491.2
35°	552.1	551.2	554.9	533.4	531.5	532.4	535.2	534.3	530.6	522.1	512.7
37.5°	621.5	621.5	611.2	566.2	552.1	550.2	552.1	556.8	557.7	550.2	542.7
40°	743.3	736.8	731.2	633.7	588.7	577.4	583.1	585.9	593.4	593.4	593.4
42.5°	869.0	869.9	868.0	738.7	654.3	626.2	627.1	633.7	649.6	652.4	660.9
45°	980.5	987.1	1001.1	860.5	750.8	688.0	681.5	688.0	710.5	729.3	750.8
47.5°	1067.7	1060.2	1091.1	988.0	861.5	772.4	755.5	757.4	788.3	818.3	852.1
50°	1142.7	1144.5	1158.6	1118.3	1001.1	868.0	845.5	841.8	885.8	917.7	974.9
52.5°	1227.0	1221.4	1242.0	1232.7	1137.0	985.2	949.6	938.3	986.1	1031.1	1093.0
55°	1267.3	1273.0	1315.1	1338.6	1265.5	1090.2	1050.8	1054.6	1105.2	1153.0	1239.2
57.5°	1338.6	1344.2	1392.9	1441.7	1379.8	1201.7	1167.0	1167.0	1224.2	1277.6	1410.8
60°	1436.1	1437.0	1486.7	1571.0	1480.1	1309.5	1287.0	1286.1	1348.0	1409.8	1613.2
62.5°	1479.2	1490.4	1564.5	1674.2	1611.4	1441.7	1415.4	1422.9	1478.2	1550.4	1839.1
65°	1421.1	1445.4	1600.1	1743.5	1728.5	1579.5	1569.2	1579.5	1613.2	1691.0	2078.2
67.5°	1228.9	1261.7	1534.5	1790.4	1822.3	1738.8	1723.8	1722.0	1743.5	1830.7	2229.1
70°	1129.5	1149.2	1361.1	1808.2	1897.3	1900.1	1900.1	1887.9	1885.1	1948.8	2243.2
72.5°	929.9	950.5	1148.3	1708.8	1968.5	2115.7	2137.2	2092.2	2022.9	2009.7	2007.9
75°	662.7	677.7	848.3	1344.2	1877.6	2322.8	2365.9	2278.8	2085.7	1876.6	1464.2
76°	462.1	483.7	662.7	1148.3	1763.2	2326.6	2394.1	2292.8	2043.5	1762.3	1206.4
77.5°	234.3	241.8	383.4	771.5	1475.4	2219.7	2285.3	2171.9	1859.8	1423.9	765.8
80°	89.1	91.9	136.9	281.2	809.9	1723.8	1749.2	1596.4	1230.8	608.4	275.6
82.5°	46.9	48.7	76.9	138.7	332.8	947.7	1069.6	890.5	482.8	182.8	80.6
85°	23.4	25.3	45.0	84.4	165.0	296.2	343.1	324.3	160.3	69.4	30.0
87.5°	9.4	11.2	22.5	37.5	66.6	58.1	64.7	83.4	51.6	32.8	10.3
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°	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1	417.1
2.5°	415.3	414.3	415.3	414.3	415.3	415.3	416.2	414.3	414.3	416.2	413.4
5°	408.7	407.8	408.7	410.6	411.5	413.4	417.1	416.2	418.1	419.9	420.9
7.5°	405.9	404.9	407.8	408.7	411.5	415.3	420.9	424.6	426.5	430.3	428.4
10°	408.7	408.7	412.4	415.3	419.9	424.6	429.3	433.1	437.8	440.6	439.6
12.5°	413.4	412.4	419.0	422.8	429.3	434.0	437.8	439.6	443.4	447.1	446.2
15°	418.1	419.0	428.4	435.9	443.4	445.3	446.2	444.3	446.2	448.1	448.1
17.5°	427.4	428.4	438.7	447.1	453.7	451.8	447.1	442.4	442.4	443.4	444.3
20°	434.9	436.8	449.0	456.5	460.3	452.8	445.3	439.6	436.8	437.8	436.8
22.5°	443.4	447.1	459.3	463.1	457.4	448.1	438.7	431.2	431.2	432.1	432.1
25°	453.7	455.6	464.0	462.1	451.8	437.8	430.3	427.4	426.5	427.4	428.4
27.5°	463.1	464.0	468.7	455.6	435.9	420.9	418.1	419.0	419.9	420.9	421.8
30°	475.3	477.1	472.4	446.2	416.2	399.3	399.3	404.9	406.8	409.6	408.7
32.5°	490.2	492.1	478.1	434.0	390.9	374.0	375.0	383.4	389.0	390.9	391.8
35°	515.6	511.8	481.8	417.1	363.7	343.1	344.0	354.3	361.8	364.6	362.8
37.5°	546.5	545.6	487.4	395.6	330.0	311.2	312.1	316.8	324.3	325.3	326.2
40°	598.0	590.5	496.8	367.5	296.2	278.4	276.5	279.3	278.4	280.3	281.2
42.5°	672.1	652.4	509.0	335.6	266.2	247.5	245.6	240.9	235.3	229.7	226.8
45°	759.3	728.3	524.0	302.8	235.3	218.4	213.7	208.1	196.8	184.7	180.9
47.5°	871.8	812.7	540.9	270.0	206.2	193.1	189.4	180.9	167.8	153.7	150.9
50°	987.1	912.1	557.7	242.8	182.8	175.3	171.5	163.1	146.2	133.1	130.3
52.5°	1121.1	1010.5	575.6	218.4	162.2	162.2	159.4	146.2	130.3	118.1	116.2
55°	1275.8	1111.7	603.7	195.0	147.2	150.9	147.2	134.0	119.0	110.6	109.7
57.5°	1460.4	1240.2	639.3	169.7	134.0	136.9	136.9	127.5	117.2	111.5	110.6
60°	1646.0	1370.5	661.8	150.9	123.7	126.5	132.2	127.5	120.9	118.1	117.2
62.5°	1824.1	1503.6	623.4	135.0	113.4	121.9	135.9	136.9	130.3	131.2	131.2
65°	1957.3	1604.8	504.3	120.9	106.9	124.7	147.2	148.1	136.9	134.0	133.1
67.5°	2003.2	1632.9	339.3	111.5	103.1	126.5	160.3	156.5	136.9	131.2	128.4
70°	1916.0	1529.8	220.3	103.1	97.5	124.7	170.6	161.2	135.9	127.5	123.7
72.5°	1606.7	1304.8	147.2	95.6	91.9	122.8	177.2	161.2	133.1	120.9	117.2
75°	1115.5	891.4	109.7	86.2	83.4	120.0	179.0	158.4	126.5	113.4	110.6
76°	895.2	668.4	99.4	82.5	79.7	118.1	178.1	155.6	121.9	109.7	106.9
77.5°	565.2	384.3	83.4	75.9	74.1	114.4	174.4	149.0	115.3	103.1	100.3
80°	197.8	140.6	63.7	61.9	62.8	105.9	164.0	135.9	102.2	90.9	87.2
82.5°	78.7	64.7	47.8	47.8	49.7	90.9	148.1	120.0	89.1	75.0	69.4
85°	30.9	28.1	33.7	33.7	35.6	74.1	123.7	93.7	60.9	46.9	45.0
87.5°	9.4	13.1	15.0	15.9	16.9	37.5	70.3	41.2	27.2	19.7	15.9
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)