

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: P594477

Luminaire Tested: **ISS-PA1A-740-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594477
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-PA1A-740-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4165 lumens
Efficiency: N/A
Efficacy: 144.1 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

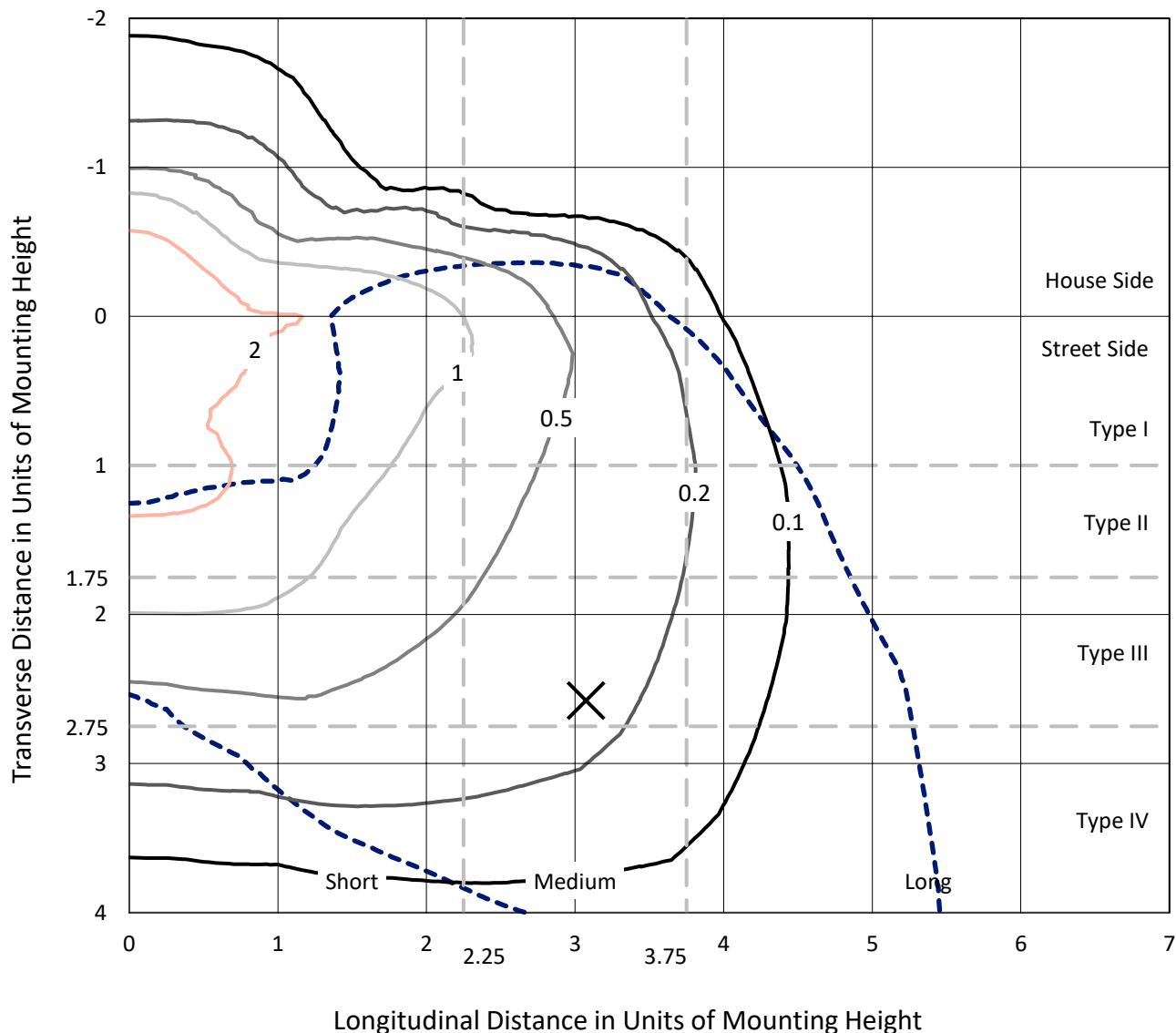
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

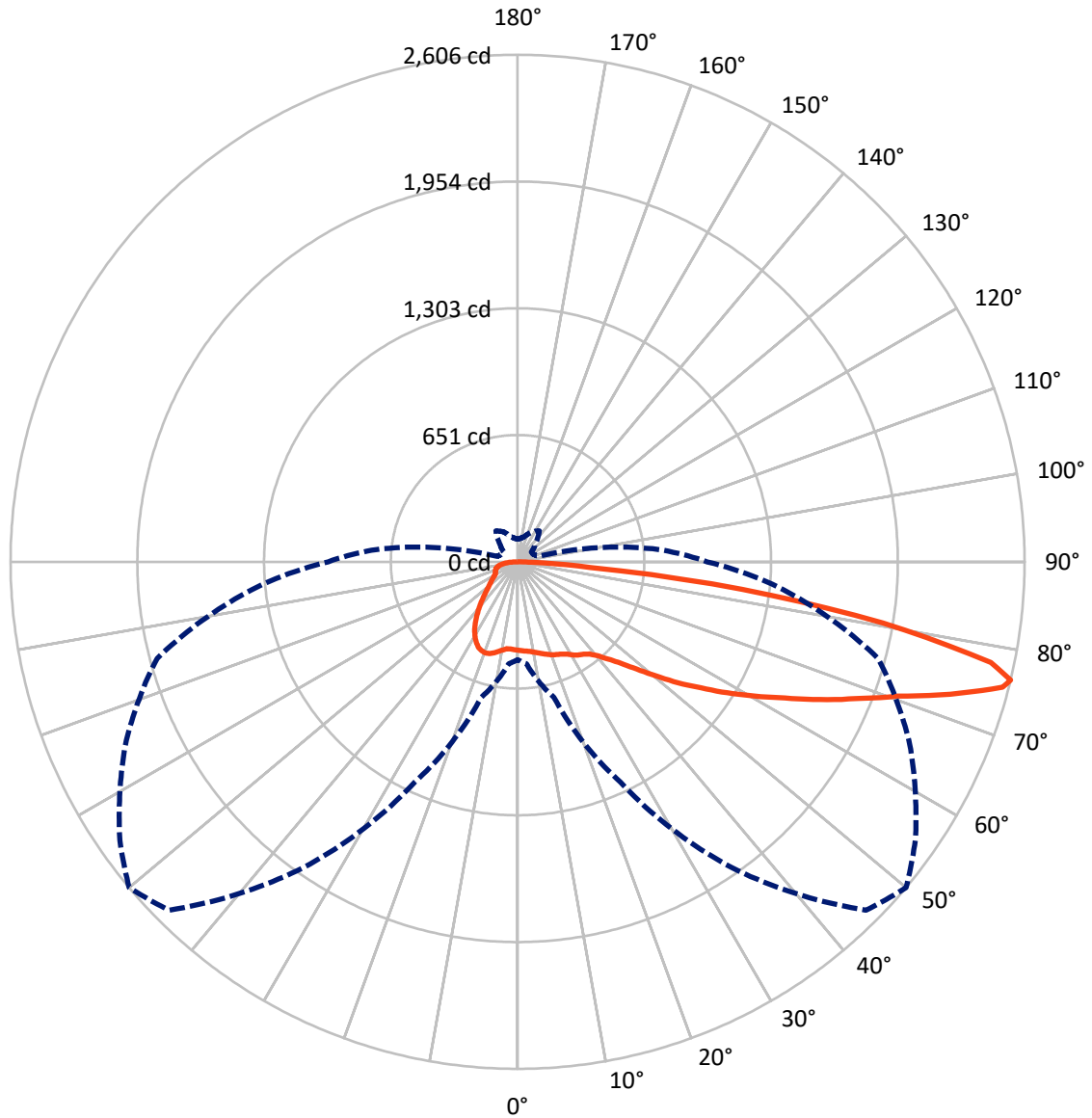
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.4 fc
 Type 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	952.8	0.0	952.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3212.2	0.0	3212.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	4165.0	0.0	4165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.1
10°-20°	138.6	3.3
20°-30°	234.1	5.6
30°-40°	320.9	7.7
40°-50°	472.6	11.3
50°-60°	743.5	17.9
60°-70°	1070.2	25.7
70°-80°	973.1	23.4
80°-90°	168.0	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°	4165.0	100.0
0°-180°	4165.0	100.0

Coefficient of Utilization

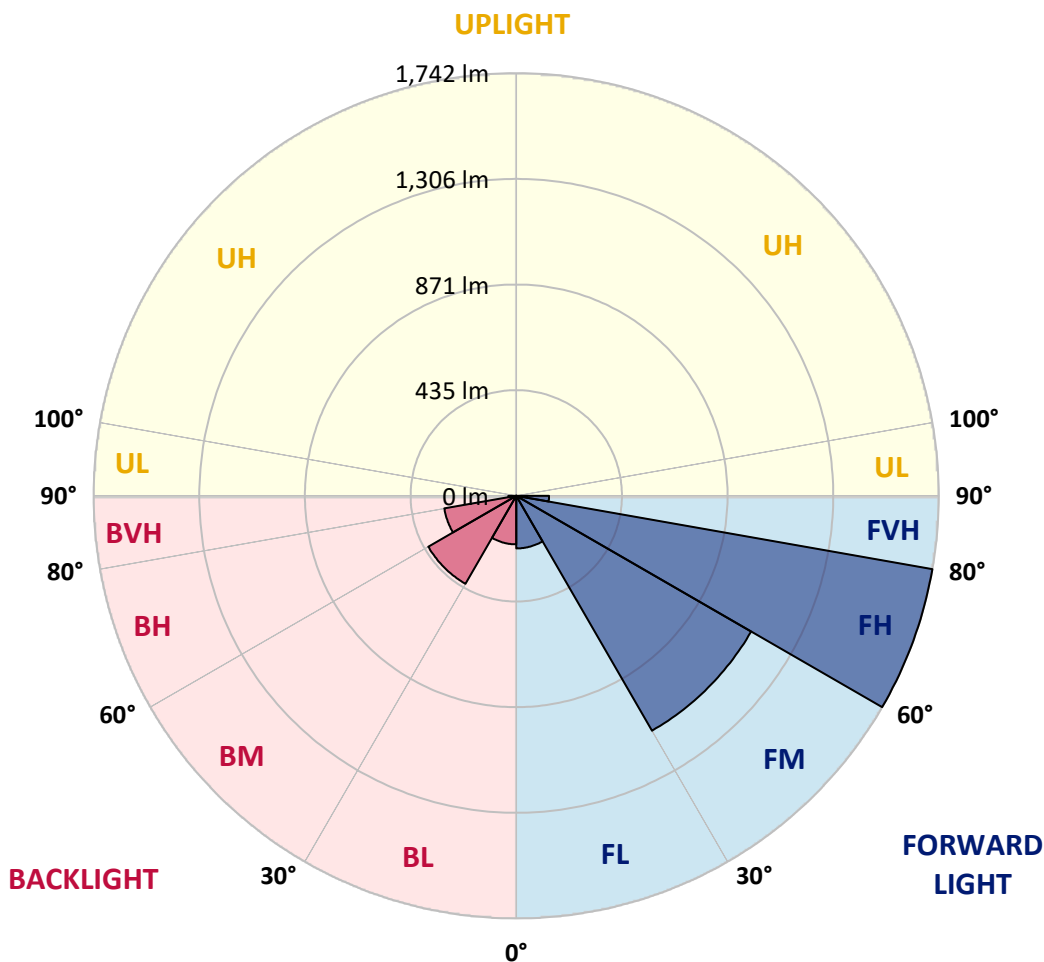


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.8	5.2			
FM (30°-60°)	1118.2	26.8			
FH (60°-80°)	1742.0	41.8			G1/1800
FVH (80°-90°)	135.2	3.2			G2/225
BL (0°-30°)	200.0	4.8	B1/500		
BM (30°-60°)	418.8	10.1	B1/1000		
BH (60°-80°)	301.2	7.2	B1/500		G1/500
BVH (80°-90°)	32.8	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°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	464.2	464.2	465.2	463.2	463.2	458.1	458.1	457.0	455.0	454.0	451.9
5°	481.5	481.5	478.5	473.4	470.3	464.2	461.1	459.1	455.0	449.9	444.8
7.5°	499.9	497.8	495.8	487.6	481.5	470.3	465.2	462.1	454.0	446.8	443.8
10°	519.3	516.2	511.1	500.9	491.7	478.5	472.3	468.3	459.1	453.0	445.8
12.5°	530.5	530.5	524.4	512.1	499.9	483.6	480.5	475.4	466.2	458.1	450.9
15°	541.7	542.7	536.6	522.3	508.0	495.8	490.7	487.6	477.4	465.2	456.0
17.5°	552.9	551.9	545.8	529.5	514.2	502.9	499.9	495.8	485.6	474.4	465.2
20°	561.1	559.1	557.0	536.6	521.3	514.2	510.1	507.0	496.8	484.6	472.3
22.5°	563.1	565.2	563.1	538.6	526.4	518.2	517.2	514.2	506.0	494.8	482.5
25°	564.2	565.2	568.2	544.8	533.5	527.4	525.4	523.3	517.2	508.0	491.7
27.5°	569.3	570.3	570.3	548.9	542.7	538.6	536.6	536.6	533.5	522.3	506.0
30°	570.3	571.3	573.3	559.1	557.0	554.0	555.0	554.0	548.9	536.6	518.2
32.5°	577.4	578.4	583.5	565.2	567.2	570.3	571.3	570.3	560.1	549.9	534.6
35°	600.9	599.9	603.9	580.5	578.4	579.5	582.5	581.5	577.4	568.2	558.0
37.5°	676.4	676.4	665.2	616.2	600.9	598.8	600.9	606.0	607.0	598.8	590.7
40°	809.0	801.9	795.7	689.6	640.7	628.4	634.5	637.6	645.8	645.8	645.8
42.5°	945.7	946.7	944.7	803.9	712.1	681.5	682.5	689.6	707.0	710.0	719.2
45°	1067.1	1074.2	1089.5	936.5	817.2	748.8	741.7	748.8	773.3	793.7	817.2
47.5°	1162.0	1153.8	1187.5	1075.3	937.5	840.6	822.3	824.3	858.0	890.6	927.3
50°	1243.6	1245.6	1260.9	1217.1	1089.5	944.7	920.2	916.1	964.1	998.7	1061.0
52.5°	1335.4	1329.3	1351.7	1341.5	1237.5	1072.2	1033.4	1021.2	1073.2	1122.2	1189.5
55°	1379.3	1385.4	1431.3	1456.8	1377.2	1186.5	1143.6	1147.7	1202.8	1254.8	1348.7
57.5°	1456.8	1462.9	1516.0	1569.0	1501.7	1307.9	1270.1	1270.1	1332.3	1390.5	1535.4
60°	1562.9	1563.9	1618.0	1709.8	1610.8	1425.2	1400.7	1399.7	1467.0	1534.3	1755.7
62.5°	1609.8	1622.1	1702.7	1822.0	1753.7	1569.0	1540.5	1548.6	1608.8	1687.4	2001.6
65°	1546.6	1573.1	1741.4	1897.5	1881.2	1719.0	1707.8	1719.0	1755.7	1840.4	2261.7
67.5°	1337.4	1373.1	1670.0	1948.5	1983.2	1892.4	1876.1	1874.1	1897.5	1992.4	2426.0
70°	1229.3	1250.7	1481.3	1967.9	2064.8	2067.9	2067.9	2054.6	2051.6	2120.9	2441.3
72.5°	1012.0	1034.5	1249.7	1859.8	2142.4	2302.5	2326.0	2277.0	2201.5	2187.2	2185.2
75°	721.3	737.6	923.3	1462.9	2043.4	2528.0	2574.9	2480.0	2269.9	2042.4	1593.5
76°	502.9	526.4	721.3	1249.7	1918.9	2532.1	2605.5	2495.3	2224.0	1917.9	1313.0
77.5°	255.0	263.2	417.2	839.6	1605.7	2415.8	2487.2	2363.7	2024.0	1549.6	833.5
80°	96.9	100.0	148.9	306.1	881.4	1876.1	1903.6	1737.3	1339.5	662.1	299.9
82.5°	51.0	53.0	83.7	151.0	362.2	1031.4	1164.0	969.2	525.4	198.9	87.7
85°	25.5	27.5	49.0	91.8	179.5	322.4	373.4	353.0	174.4	75.5	32.6
87.5°	10.2	12.2	24.5	40.8	72.4	63.3	70.4	90.8	56.1	35.7	11.2
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°	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0	454.0
2.5°	451.9	450.9	451.9	450.9	451.9	451.9	453.0	450.9	450.9	453.0	449.9
5°	444.8	443.8	444.8	446.8	447.9	449.9	454.0	453.0	455.0	457.0	458.1
7.5°	441.7	440.7	443.8	444.8	447.9	451.9	458.1	462.1	464.2	468.3	466.2
10°	444.8	444.8	448.9	451.9	457.0	462.1	467.2	471.3	476.4	479.5	478.5
12.5°	449.9	448.9	456.0	460.1	467.2	472.3	476.4	478.5	482.5	486.6	485.6
15°	455.0	456.0	466.2	474.4	482.5	484.6	485.6	483.6	485.6	487.6	487.6
17.5°	465.2	466.2	477.4	486.6	493.8	491.7	486.6	481.5	481.5	482.5	483.6
20°	473.4	475.4	488.7	496.8	500.9	492.7	484.6	478.5	475.4	476.4	475.4
22.5°	482.5	486.6	499.9	504.0	497.8	487.6	477.4	469.3	469.3	470.3	470.3
25°	493.8	495.8	505.0	502.9	491.7	476.4	468.3	465.2	464.2	465.2	466.2
27.5°	504.0	505.0	510.1	495.8	474.4	458.1	455.0	456.0	457.0	458.1	459.1
30°	517.2	519.3	514.2	485.6	453.0	434.6	434.6	440.7	442.8	445.8	444.8
32.5°	533.5	535.6	520.3	472.3	425.4	407.0	408.1	417.2	423.4	425.4	426.4
35°	561.1	557.0	524.4	454.0	395.8	373.4	374.4	385.6	393.8	396.8	394.8
37.5°	594.8	593.7	530.5	430.5	359.1	338.7	339.7	344.8	353.0	354.0	355.0
40°	650.9	642.7	540.7	399.9	322.4	303.0	301.0	304.0	303.0	305.0	306.1
42.5°	731.5	710.0	554.0	365.2	289.7	269.3	267.3	262.2	256.1	249.9	246.9
45°	826.3	792.7	570.3	329.5	256.1	237.7	232.6	226.5	214.2	201.0	196.9
47.5°	948.8	884.5	588.6	293.8	224.4	210.2	206.1	196.9	182.6	167.3	164.2
50°	1074.2	992.6	607.0	264.2	198.9	190.8	186.7	177.5	159.1	144.9	141.8
52.5°	1220.1	1099.7	626.4	237.7	176.5	176.5	173.4	159.1	141.8	128.5	126.5
55°	1388.5	1209.9	657.0	212.2	160.2	164.2	160.2	145.9	129.6	120.4	119.4
57.5°	1589.4	1349.7	695.8	184.7	145.9	148.9	148.9	138.7	127.5	121.4	120.4
60°	1791.4	1491.5	720.2	164.2	134.7	137.7	143.8	138.7	131.6	128.5	127.5
62.5°	1985.3	1636.4	678.4	146.9	123.4	132.6	147.9	148.9	141.8	142.8	142.8
65°	2130.1	1746.5	548.9	131.6	116.3	135.7	160.2	161.2	148.9	145.9	144.9
67.5°	2180.1	1777.1	369.3	121.4	112.2	137.7	174.4	170.4	148.9	142.8	139.8
70°	2085.2	1664.9	239.7	112.2	106.1	135.7	185.7	175.5	147.9	138.7	134.7
72.5°	1748.6	1420.1	160.2	104.1	100.0	133.6	192.8	175.5	144.9	131.6	127.5
75°	1214.0	970.2	119.4	93.9	90.8	130.6	194.9	172.4	137.7	123.4	120.4
76°	974.3	727.4	108.1	89.8	86.7	128.5	193.8	169.3	132.6	119.4	116.3
77.5°	615.2	418.3	90.8	82.6	80.6	124.5	189.8	162.2	125.5	112.2	109.2
80°	215.3	153.0	69.4	67.3	68.4	115.3	178.5	147.9	111.2	99.0	94.9
82.5°	85.7	70.4	52.0	52.0	54.1	99.0	161.2	130.6	96.9	81.6	75.5
85°	33.7	30.6	36.7	36.7	38.8	80.6	134.7	102.0	66.3	51.0	49.0
87.5°	10.2	14.3	16.3	17.3	18.4	40.8	76.5	44.9	29.6	21.4	17.3
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)