

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: P594599

Luminaire Tested: **ISS-PA1B-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594599
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-PA1B-830-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4212 lumens
Efficiency: N/A
Efficacy: 115.7 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

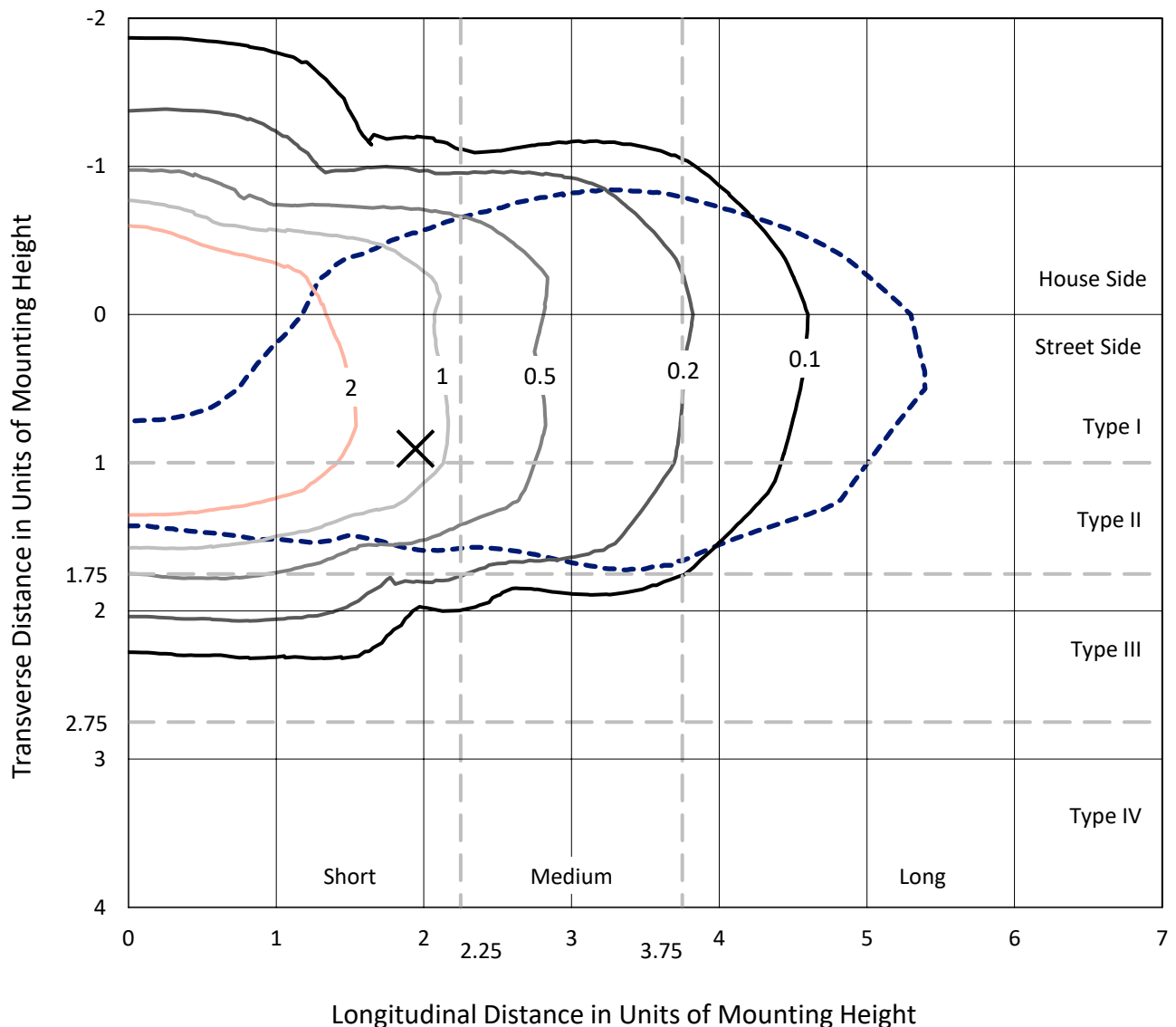
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

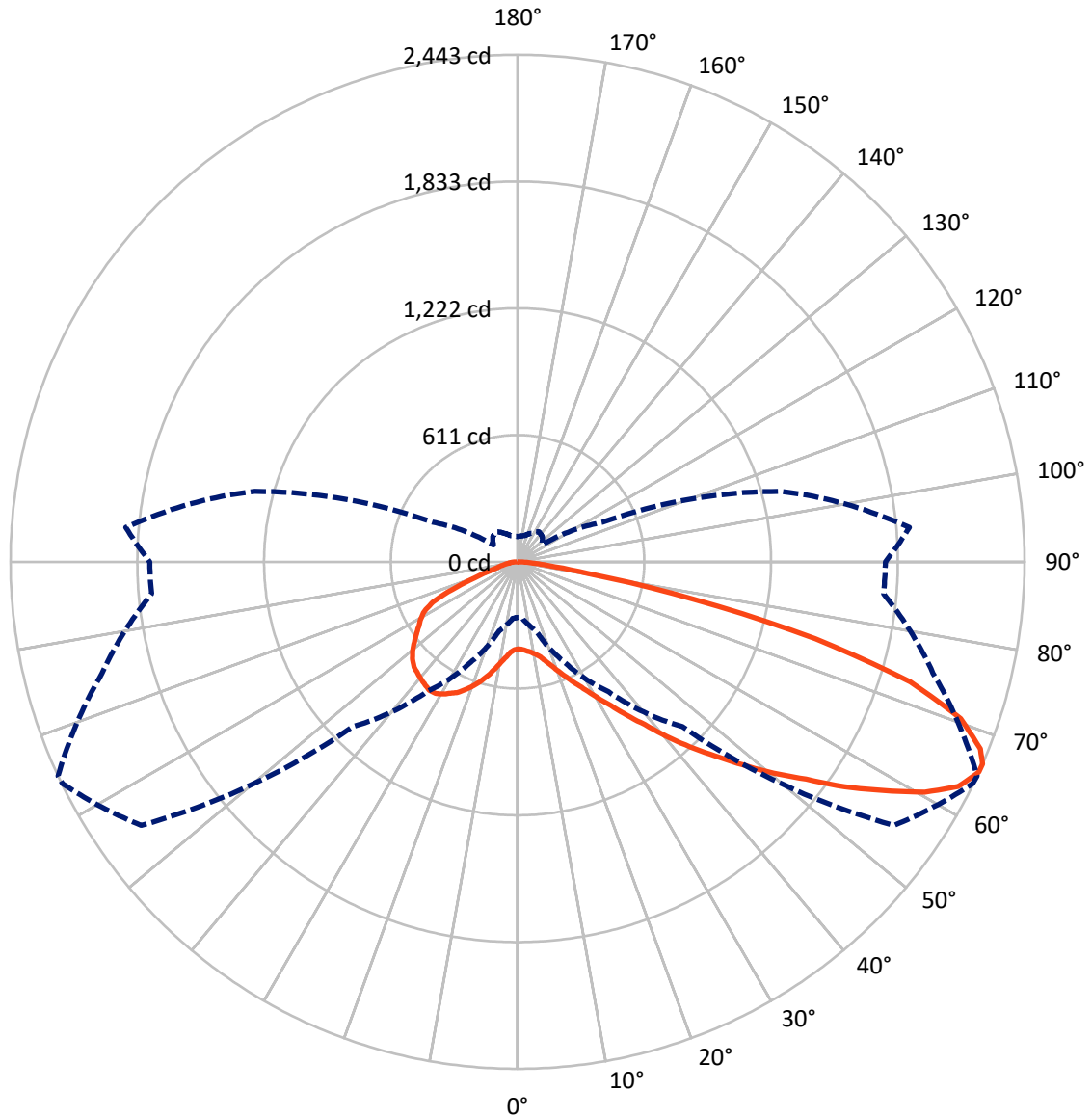
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.7 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	1278.9	0.0	1278.9
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2933.1	0.0	2933.1
	% Fixture	69.6	0.0	69.6
Total	Lumens	4212.0	0.0	4212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.8	1.0
10°-20°	149.3	3.5
20°-30°	292.4	6.9
30°-40°	477.7	11.3
40°-50°	758.3	18.0
50°-60°	975.2	23.2
60°-70°	879.5	20.9
70°-80°	545.5	13.0
80°-90°	91.4	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°	4212.0	100.0
0°-180°	4212.0	100.0

Coefficient of Utilization



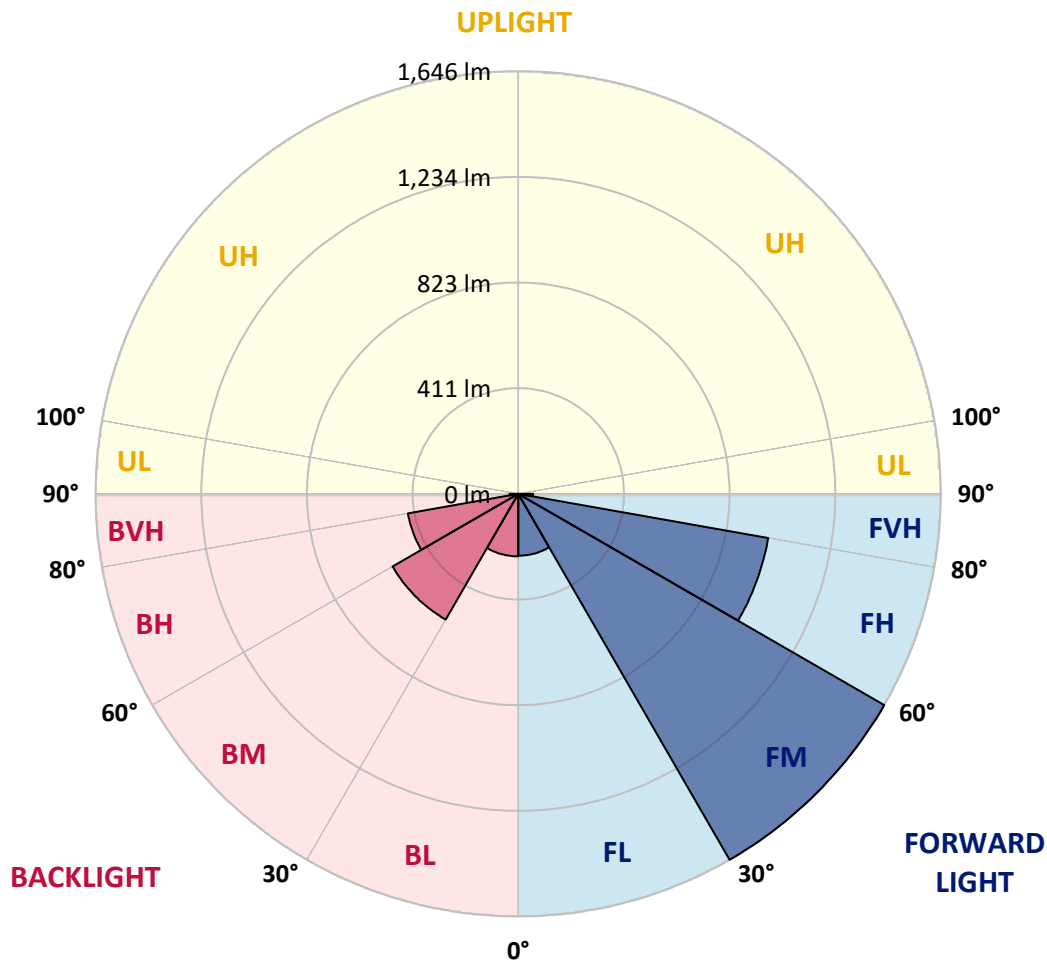
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.9	5.7			
FM (30°-60°)	1645.8	39.1			
FH (60°-80°)	988.6	23.5			G1/1800
FVH (80°-90°)	57.8	1.4			G1/100
BL (0°-30°)	243.6	5.8	B1/500		
BM (30°-60°)	565.4	13.4	B1/1000		
BH (60°-80°)	436.4	10.4	B1/500		G1/500
BVH (80°-90°)	33.6	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°	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8
2.5°	420.9	421.9	422.9	420.9	422.9	423.9	421.9	421.9	422.9	420.9	420.9
5°	417.8	418.8	420.9	421.9	426.0	428.0	429.0	429.0	430.1	429.0	430.1
7.5°	409.6	409.6	413.7	415.8	421.9	429.0	433.1	439.2	439.2	440.3	443.3
10°	417.8	417.8	420.9	423.9	429.0	435.2	441.3	448.4	450.5	457.6	461.7
12.5°	430.1	432.1	436.2	440.3	446.4	453.5	458.7	465.8	466.8	474.0	482.1
15°	450.5	452.5	454.6	459.7	467.8	477.0	486.2	491.3	493.4	497.5	503.6
17.5°	481.1	483.2	484.2	487.3	493.4	505.6	518.9	523.0	525.1	525.1	530.2
20°	533.2	532.2	530.2	524.0	524.0	535.3	553.7	560.8	562.8	558.8	555.7
22.5°	593.5	592.5	584.3	577.1	572.0	574.1	592.5	604.7	603.7	595.5	583.3
25°	672.1	674.2	660.9	642.5	627.2	623.1	634.4	646.6	648.7	633.3	612.9
27.5°	766.1	763.1	755.9	726.3	696.7	678.3	684.4	697.7	698.7	682.4	649.7
30°	876.4	871.3	853.0	822.3	776.3	750.8	745.7	756.9	760.0	732.4	685.4
32.5°	999.0	993.9	970.4	923.4	873.4	830.5	814.1	829.5	827.4	795.7	730.4
35°	1147.1	1146.1	1103.2	1045.0	981.7	924.5	902.0	902.0	908.1	861.1	787.6
37.5°	1345.3	1353.5	1290.2	1199.2	1110.4	1033.8	996.0	993.9	994.9	943.9	851.9
40°	1524.1	1521.0	1484.2	1399.5	1269.7	1171.7	1115.5	1103.2	1106.3	1040.9	935.7
42.5°	1627.2	1630.3	1621.1	1584.3	1471.0	1347.4	1251.3	1218.6	1219.7	1138.0	1015.4
45°	1691.6	1694.7	1693.6	1712.0	1667.1	1550.6	1413.8	1338.2	1334.1	1248.3	1109.3
47.5°	1728.4	1730.4	1743.7	1781.5	1818.3	1791.7	1593.5	1471.0	1462.8	1351.4	1203.3
50°	1687.5	1688.5	1741.7	1831.5	1921.4	2002.1	1777.4	1602.7	1600.7	1465.9	1295.3
52.5°	1473.0	1491.4	1608.9	1796.8	1998.1	2151.3	1989.9	1758.0	1740.6	1574.1	1387.2
55°	1202.3	1210.5	1345.3	1584.3	1983.8	2243.2	2150.3	1925.5	1913.3	1694.7	1477.1
57.5°	938.8	946.9	1107.3	1306.5	1765.2	2238.1	2263.6	2106.3	2078.8	1799.9	1567.0
60°	605.7	631.3	817.2	1062.4	1429.1	2082.8	2320.8	2280.0	2254.4	1904.1	1643.6
62.5°	411.7	415.8	532.2	787.6	1069.5	1692.6	2316.8	2387.2	2383.2	2008.3	1720.2
65°	267.6	273.8	344.2	533.2	765.1	1123.6	2214.6	2439.3	2443.4	2072.6	1770.3
66°	226.8	230.9	285.0	448.4	670.1	890.7	2124.7	2435.3	2443.4	2102.2	1785.6
67.5°	197.1	200.2	227.8	331.0	547.5	640.5	1890.8	2381.1	2404.6	2129.8	1805.0
70°	169.6	173.7	199.2	225.8	391.2	373.9	1197.2	2242.2	2265.7	2143.1	1817.2
72.5°	139.9	143.0	168.5	204.3	284.0	251.3	528.1	1919.4	1978.6	2094.1	1797.8
75°	110.3	112.4	135.9	170.6	217.6	196.1	229.8	1407.6	1482.2	1845.8	1722.2
77.5°	85.8	86.8	105.2	132.8	199.2	152.2	142.0	685.4	867.3	1426.0	1516.9
80°	59.2	61.3	77.6	100.1	146.1	120.5	95.0	267.6	340.2	946.9	1150.2
82.5°	38.8	39.8	53.1	75.6	97.0	115.4	62.3	129.7	143.0	436.2	498.5
85°	26.6	26.6	37.8	47.0	66.4	76.6	40.9	68.4	74.6	165.5	60.3
87.5°	13.3	13.3	18.4	24.5	31.7	29.6	24.5	24.5	24.5	54.1	17.4
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°	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8	419.8
2.5°	421.9	421.9	422.9	423.9	424.9	424.9	426.0	426.0	424.9	426.0	427.0
5°	431.1	432.1	434.1	437.2	442.3	447.4	452.5	455.6	458.7	459.7	457.6
7.5°	445.4	447.4	454.6	462.7	470.9	483.2	490.3	494.4	496.4	498.5	496.4
10°	463.8	467.8	478.1	492.4	506.7	522.0	530.2	536.3	537.3	539.4	537.3
12.5°	485.2	492.4	507.7	528.1	545.5	560.8	566.9	562.8	553.7	549.6	548.5
15°	510.7	517.9	539.4	564.9	585.3	592.5	583.3	570.0	559.8	558.8	557.7
17.5°	533.2	543.4	573.1	599.6	619.0	611.9	587.4	579.2	576.1	580.2	579.2
20°	561.8	570.0	599.6	632.3	642.5	614.9	597.6	592.5	589.4	589.4	587.4
22.5°	585.3	591.4	627.2	663.0	656.8	617.0	604.7	594.5	584.3	583.3	580.2
25°	612.9	614.9	652.7	691.6	658.9	619.0	597.6	580.2	570.0	566.9	568.0
27.5°	638.4	643.5	676.2	711.0	653.8	607.8	573.1	550.6	535.3	534.2	534.2
30°	671.1	671.1	700.7	732.4	642.5	579.2	533.2	500.5	488.3	487.3	485.2
32.5°	707.9	701.8	730.4	747.7	618.0	540.4	479.1	442.3	422.9	418.8	415.8
35°	759.0	745.7	766.1	750.8	593.5	485.2	410.6	368.8	354.5	348.3	348.3
37.5°	818.2	798.8	820.3	741.6	555.7	420.9	339.1	307.5	292.1	283.0	286.0
40°	887.7	863.2	875.4	731.4	514.8	349.4	279.9	260.5	242.1	229.8	229.8
42.5°	969.4	928.5	937.7	721.2	456.6	287.0	242.1	228.8	214.5	202.3	205.3
45°	1048.1	1008.2	999.0	711.0	395.3	245.2	226.8	217.6	204.3	190.0	190.0
47.5°	1139.0	1087.9	1053.2	692.6	335.1	231.9	230.9	217.6	192.0	171.6	169.6
50°	1224.8	1177.8	1102.2	665.0	301.3	243.1	229.8	198.2	173.7	160.4	159.4
52.5°	1315.7	1266.7	1142.0	631.3	284.0	238.0	211.5	181.8	163.4	150.2	147.1
55°	1405.6	1380.0	1177.8	598.6	256.4	221.7	196.1	171.6	152.2	139.9	137.9
57.5°	1507.7	1497.5	1208.4	565.9	213.5	201.2	184.9	164.5	146.1	136.9	135.9
60°	1596.6	1632.4	1245.2	541.4	181.8	185.9	179.8	163.4	150.2	139.9	139.9
62.5°	1690.6	1762.1	1277.9	509.7	158.3	176.7	180.8	162.4	145.1	135.9	135.9
65°	1772.3	1894.9	1311.6	451.5	142.0	169.6	177.7	151.2	130.8	123.6	121.6
66°	1807.0	1932.7	1321.8	415.8	135.9	164.5	172.6	145.1	124.6	118.5	117.5
67.5°	1847.9	1991.9	1334.1	339.1	126.7	153.2	161.4	135.9	114.4	110.3	108.3
70°	1905.1	2004.2	1326.9	221.7	110.3	131.8	144.0	121.6	102.1	99.1	96.0
72.5°	1911.2	1920.4	1255.4	139.9	96.0	113.4	126.7	109.3	89.9	86.8	84.8
75°	1810.1	1701.8	1062.4	100.1	84.8	100.1	111.3	95.0	74.6	70.5	68.4
77.5°	1545.5	1350.4	764.1	74.6	73.5	85.8	93.0	82.7	62.3	59.2	58.2
80°	1084.8	916.3	383.1	56.2	58.2	71.5	77.6	69.5	52.1	48.0	46.0
82.5°	439.2	389.2	131.8	41.9	43.9	54.1	66.4	57.2	39.8	34.7	30.6
85°	50.1	84.8	57.2	28.6	29.6	36.8	44.9	34.7	23.5	19.4	16.3
87.5°	10.2	18.4	20.4	11.2	10.2	14.3	20.4	12.3	8.2	3.1	4.1
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)