

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: P594482

Luminaire Tested: **ISS-PA1A-750-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594482
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-750-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 5000K, 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: 4241 lumens
Efficiency: N/A
Efficacy: 146.7 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

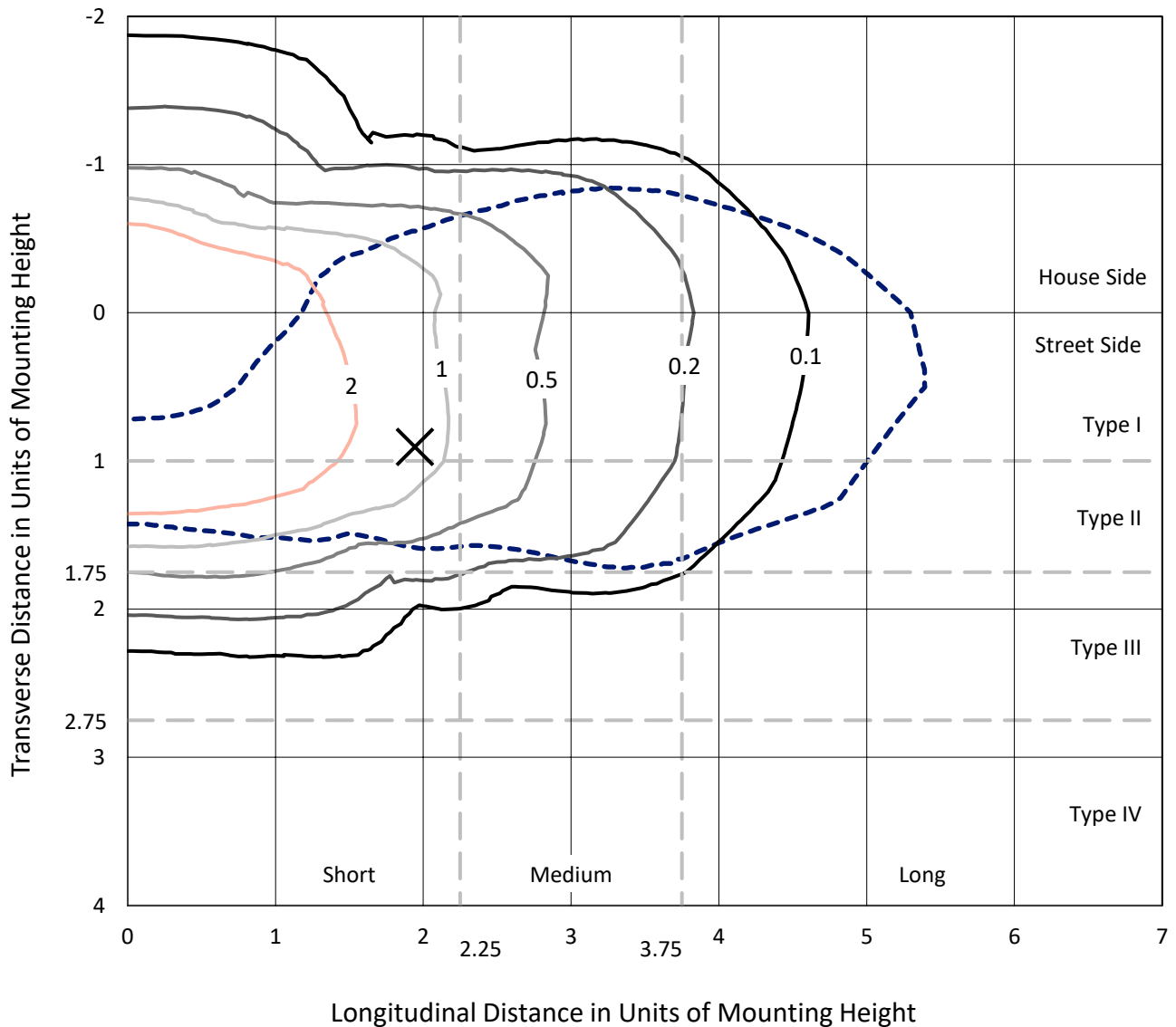
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

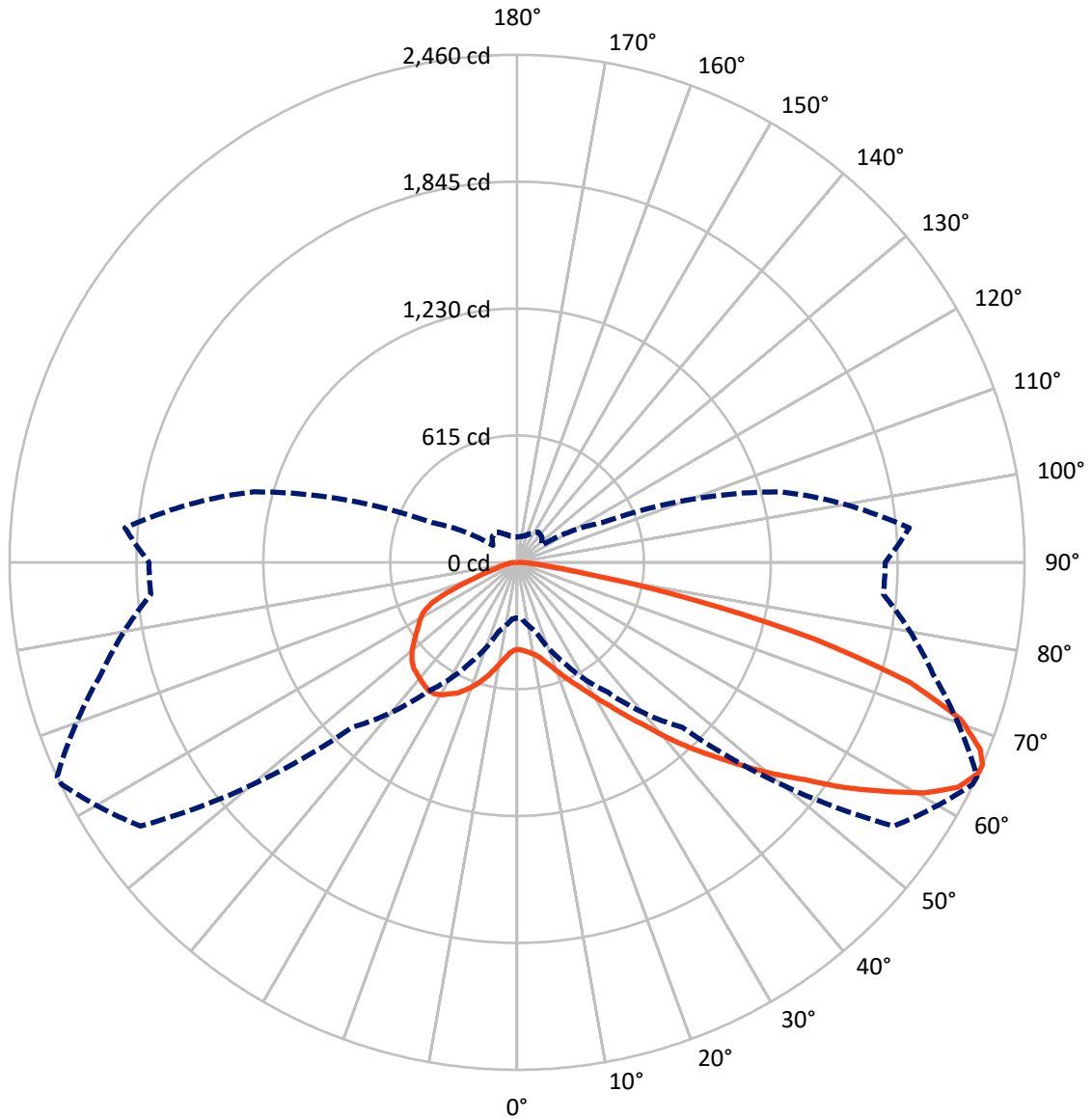
× Max cd
 - - - 1/2 Max cd



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	1287.8	0.0	1287.8
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2953.3	0.0	2953.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	4241.0	0.0	4241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.0
10°-20°	150.3	3.5
20°-30°	294.4	6.9
30°-40°	481.0	11.3
40°-50°	763.5	18.0
50°-60°	981.9	23.2
60°-70°	885.5	20.9
70°-80°	549.2	13.0
80°-90°	92.0	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°	4241.0	100.0
0°-180°	4241.0	100.0

Coefficient of Utilization



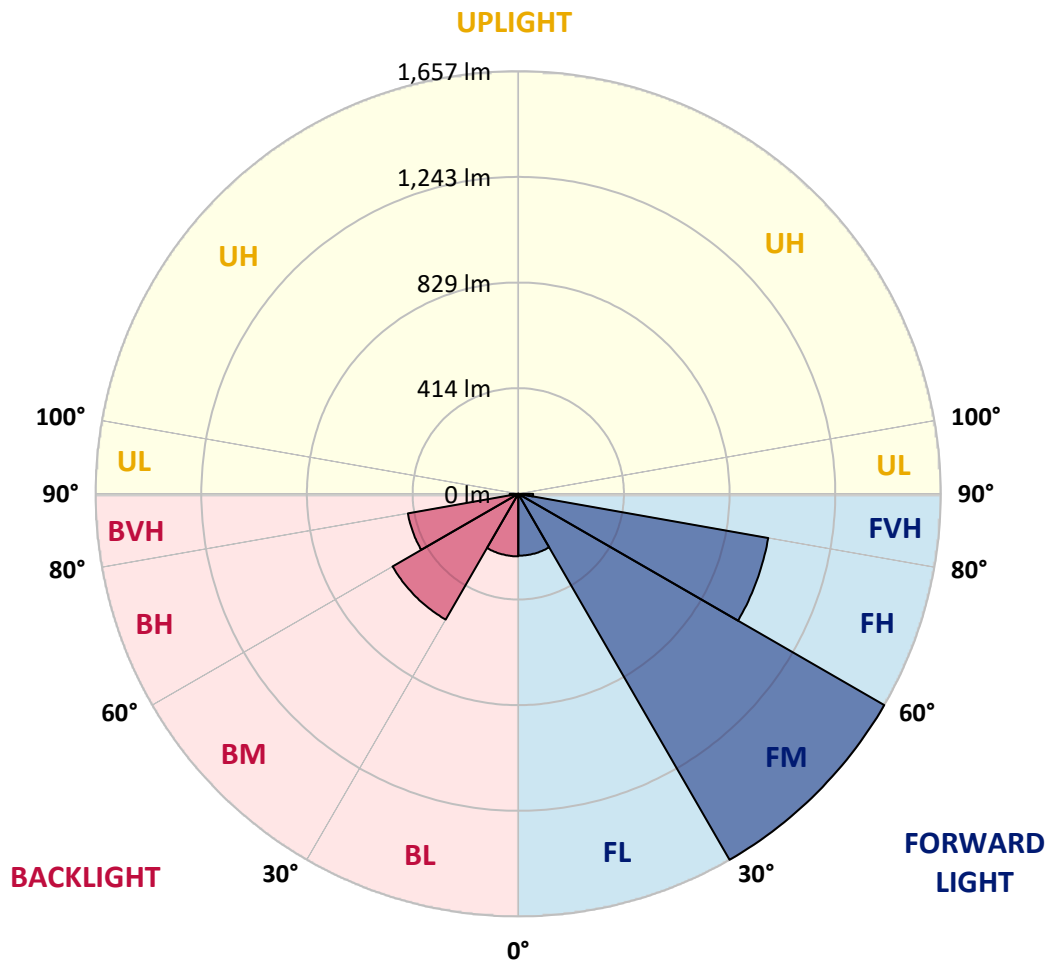
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	242.5	5.7			
FM (30°-60°)	1657.2	39.1			
FH (60°-80°)	995.4	23.5			G1/1800
FVH (80°-90°)	58.2	1.4			G1/100
BL (0°-30°)	245.3	5.8	B1/500		
BM (30°-60°)	569.3	13.4	B1/1000		
BH (60°-80°)	439.4	10.4	B1/500		G1/500
BVH (80°-90°)	33.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	423.8	424.8	425.8	423.8	425.8	426.8	424.8	424.8	425.8	423.8	423.8
5°	420.7	421.7	423.8	424.8	428.9	431.0	432.0	432.0	433.0	432.0	433.0
7.5°	412.4	412.4	416.6	418.6	424.8	432.0	436.1	442.3	442.3	443.3	446.4
10°	420.7	420.7	423.8	426.8	432.0	438.2	444.3	451.5	453.6	460.8	464.9
12.5°	433.0	435.1	439.2	443.3	449.5	456.7	461.8	469.0	470.0	477.2	485.5
15°	453.6	455.6	457.7	462.8	471.1	480.3	489.6	494.7	496.8	500.9	507.1
17.5°	484.4	486.5	487.5	490.6	496.8	509.1	522.5	526.6	528.7	528.7	533.8
20°	536.9	535.9	533.8	527.6	527.6	539.0	557.5	564.7	566.7	562.6	559.5
22.5°	597.6	596.5	588.3	581.1	576.0	578.0	596.5	608.9	607.9	599.6	587.3
25°	676.8	678.8	665.5	646.9	631.5	627.4	638.7	651.1	653.1	637.7	617.1
27.5°	771.4	768.3	761.1	731.3	701.5	682.9	689.1	702.5	703.5	687.1	654.1
30°	882.5	877.3	858.8	828.0	781.7	756.0	750.8	762.1	765.2	737.5	690.1
32.5°	1005.9	1000.8	977.1	929.8	879.4	836.2	819.7	835.2	833.1	801.2	735.4
35°	1155.0	1154.0	1110.8	1052.2	988.4	930.8	908.2	908.2	914.4	867.1	793.0
37.5°	1354.6	1362.8	1299.0	1207.5	1118.0	1040.9	1002.8	1000.8	1001.8	950.4	857.8
40°	1534.6	1531.5	1494.5	1409.1	1278.5	1179.7	1123.2	1110.8	1113.9	1048.1	942.1
42.5°	1638.5	1641.5	1632.3	1595.3	1481.1	1356.6	1260.0	1227.0	1228.1	1145.8	1022.4
45°	1703.2	1706.3	1705.3	1723.8	1678.6	1561.3	1423.5	1347.4	1343.3	1256.9	1117.0
47.5°	1740.3	1742.3	1755.7	1793.8	1830.8	1804.0	1604.5	1481.1	1472.9	1360.7	1211.6
50°	1699.1	1700.2	1753.6	1844.2	1934.7	2015.9	1789.6	1613.8	1611.7	1475.9	1304.2
52.5°	1483.1	1501.7	1619.9	1809.2	2011.8	2166.1	2003.6	1770.1	1752.6	1585.0	1396.7
55°	1210.6	1218.8	1354.6	1595.3	1997.4	2258.7	2165.1	1938.8	1926.4	1706.3	1487.3
57.5°	945.2	953.4	1114.9	1315.5	1777.3	2253.5	2279.2	2120.8	2093.1	1812.3	1577.8
60°	609.9	635.6	822.8	1069.7	1438.9	2097.2	2336.8	2295.7	2270.0	1917.2	1654.9
62.5°	414.5	418.6	535.9	793.0	1076.9	1704.3	2332.7	2403.7	2399.6	2022.1	1732.0
65°	269.5	275.6	346.6	536.9	770.4	1131.4	2229.9	2456.1	2460.2	2086.9	1782.4
66°	228.3	232.4	287.0	451.5	674.7	896.9	2139.3	2452.0	2460.2	2116.7	1797.9
67.5°	198.5	201.6	229.4	333.2	551.3	644.9	1903.8	2397.5	2421.2	2144.5	1817.4
70°	170.7	174.9	200.6	227.3	393.9	376.4	1205.4	2257.6	2281.3	2157.9	1829.8
72.5°	140.9	144.0	169.7	205.7	285.9	253.0	531.8	1932.6	1992.3	2108.5	1810.2
75°	111.1	113.1	136.8	171.8	219.1	197.5	231.4	1417.3	1492.4	1858.6	1734.1
77.5°	86.4	87.4	105.9	133.7	200.6	153.3	143.0	690.1	873.2	1435.8	1527.4
80°	59.7	61.7	78.2	100.8	147.1	121.4	95.7	269.5	342.5	953.4	1158.1
82.5°	39.1	40.1	53.5	76.1	97.7	116.2	62.7	130.6	144.0	439.2	501.9
85°	26.7	26.7	38.1	47.3	66.9	77.1	41.1	68.9	75.1	166.6	60.7
87.5°	13.4	13.4	18.5	24.7	31.9	29.8	24.7	24.7	24.7	54.5	17.5
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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	424.8	424.8	425.8	426.8	427.9	427.9	428.9	428.9	427.9	428.9	429.9
5°	434.0	435.1	437.1	440.2	445.4	450.5	455.6	458.7	461.8	462.8	460.8
7.5°	448.4	450.5	457.7	465.9	474.2	486.5	493.7	497.8	499.9	501.9	499.9
10°	467.0	471.1	481.4	495.8	510.2	525.6	533.8	540.0	541.0	543.1	541.0
12.5°	488.6	495.8	511.2	531.8	549.2	564.7	570.8	566.7	557.5	553.4	552.3
15°	514.3	521.5	543.1	568.8	589.3	596.5	587.3	573.9	563.6	562.6	561.6
17.5°	536.9	547.2	577.0	603.7	623.3	616.1	591.4	583.2	580.1	584.2	583.2
20°	565.7	573.9	603.7	636.7	646.9	619.2	601.7	596.5	593.5	593.5	591.4
22.5°	589.3	595.5	631.5	667.5	661.3	621.2	608.9	598.6	588.3	587.3	584.2
25°	617.1	619.2	657.2	696.3	663.4	623.3	601.7	584.2	573.9	570.8	571.9
27.5°	642.8	648.0	680.9	715.9	658.3	612.0	577.0	554.4	539.0	537.9	537.9
30°	675.7	675.7	705.6	737.5	646.9	583.2	536.9	504.0	491.6	490.6	488.6
32.5°	712.8	706.6	735.4	752.9	622.3	544.1	482.4	445.4	425.8	421.7	418.6
35°	764.2	750.8	771.4	756.0	597.6	488.6	413.5	371.3	356.9	350.7	350.7
37.5°	823.9	804.3	825.9	746.7	559.5	423.8	341.5	309.6	294.2	284.9	288.0
40°	893.8	869.1	881.5	736.4	518.4	351.8	281.8	262.3	243.8	231.4	231.4
42.5°	976.1	934.9	944.2	726.1	459.8	289.0	243.8	230.4	216.0	203.6	206.7
45°	1055.3	1015.2	1005.9	715.9	398.0	246.8	228.3	219.1	205.7	191.3	191.3
47.5°	1146.8	1095.4	1060.4	697.3	337.4	233.5	232.4	219.1	193.4	172.8	170.7
50°	1233.2	1185.9	1109.8	669.6	303.4	244.8	231.4	199.5	174.9	161.5	160.5
52.5°	1324.7	1275.4	1149.9	635.6	285.9	239.6	212.9	183.1	164.6	151.2	148.1
55°	1415.3	1389.5	1185.9	602.7	258.2	223.2	197.5	172.8	153.3	140.9	138.9
57.5°	1518.1	1507.8	1216.8	569.8	215.0	202.6	186.2	165.6	147.1	137.8	136.8
60°	1607.6	1643.6	1253.8	545.1	183.1	187.2	181.0	164.6	151.2	140.9	140.9
62.5°	1702.2	1774.2	1286.7	513.2	159.4	177.9	182.1	163.5	146.1	136.8	136.8
65°	1784.5	1907.9	1320.6	454.6	143.0	170.7	179.0	152.2	131.7	124.5	122.4
66°	1819.5	1946.0	1330.9	418.6	136.8	165.6	173.8	146.1	125.5	119.3	118.3
67.5°	1860.6	2005.6	1343.3	341.5	127.5	154.3	162.5	136.8	115.2	111.1	109.0
70°	1918.2	2018.0	1336.1	223.2	111.1	132.7	145.0	122.4	102.9	99.8	96.7
72.5°	1924.4	1933.6	1264.1	140.9	96.7	114.2	127.5	110.1	90.5	87.4	85.4
75°	1822.6	1713.5	1069.7	100.8	85.4	100.8	112.1	95.7	75.1	71.0	68.9
77.5°	1556.2	1359.7	769.3	75.1	74.1	86.4	93.6	83.3	62.7	59.7	58.6
80°	1092.3	922.6	385.7	56.6	58.6	72.0	78.2	69.9	52.5	48.3	46.3
82.5°	442.3	391.9	132.7	42.2	44.2	54.5	66.9	57.6	40.1	35.0	30.9
85°	50.4	85.4	57.6	28.8	29.8	37.0	45.3	35.0	23.7	19.5	16.5
87.5°	10.3	18.5	20.6	11.3	10.3	14.4	20.6	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)