

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: P594041

Luminaire Tested: **ISC-PA1B-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594041
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: ISC-PA1B-727-U-T2U
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 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: 4433 lumens
Efficiency: N/A
Efficacy: 121.8 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

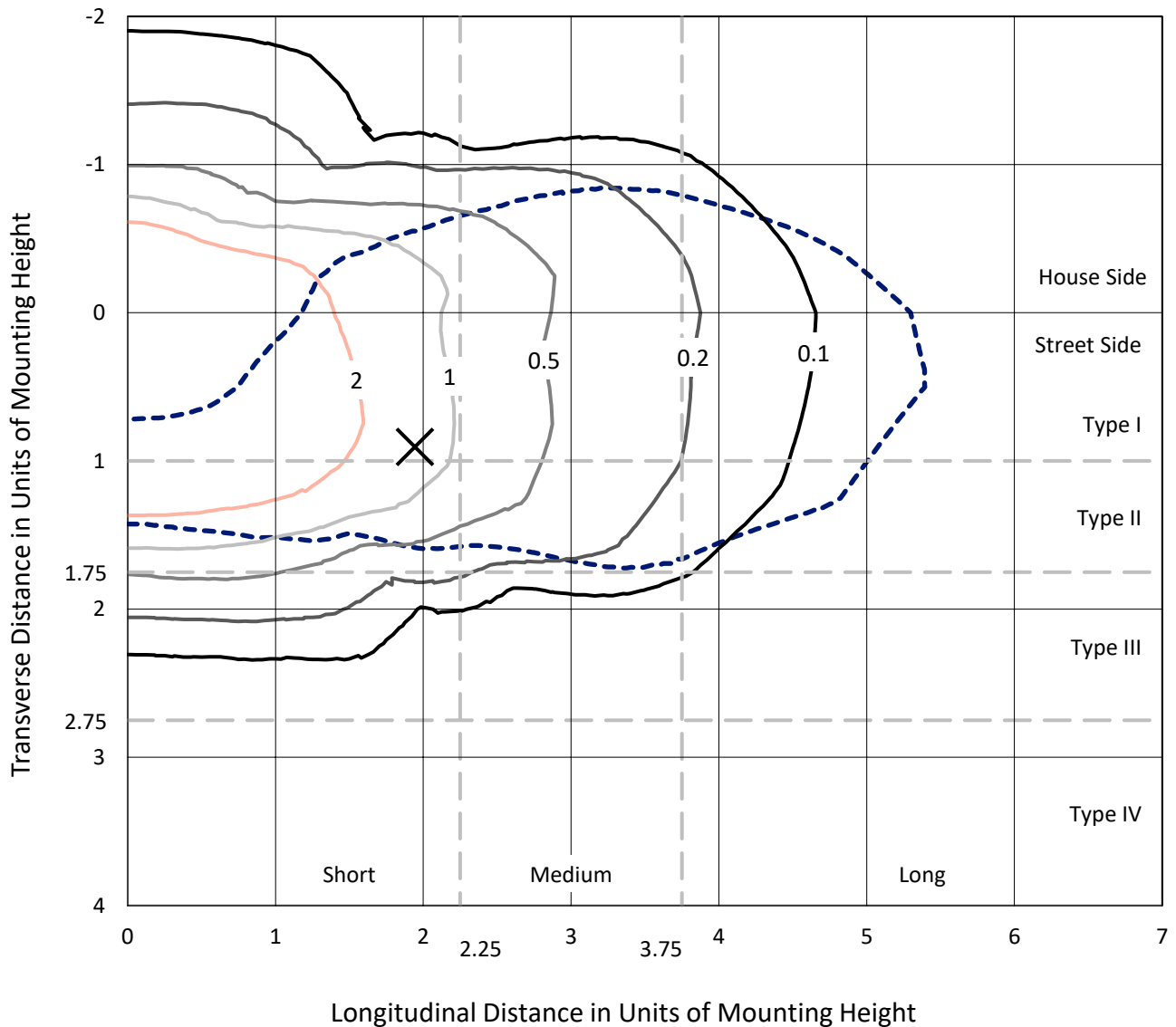
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

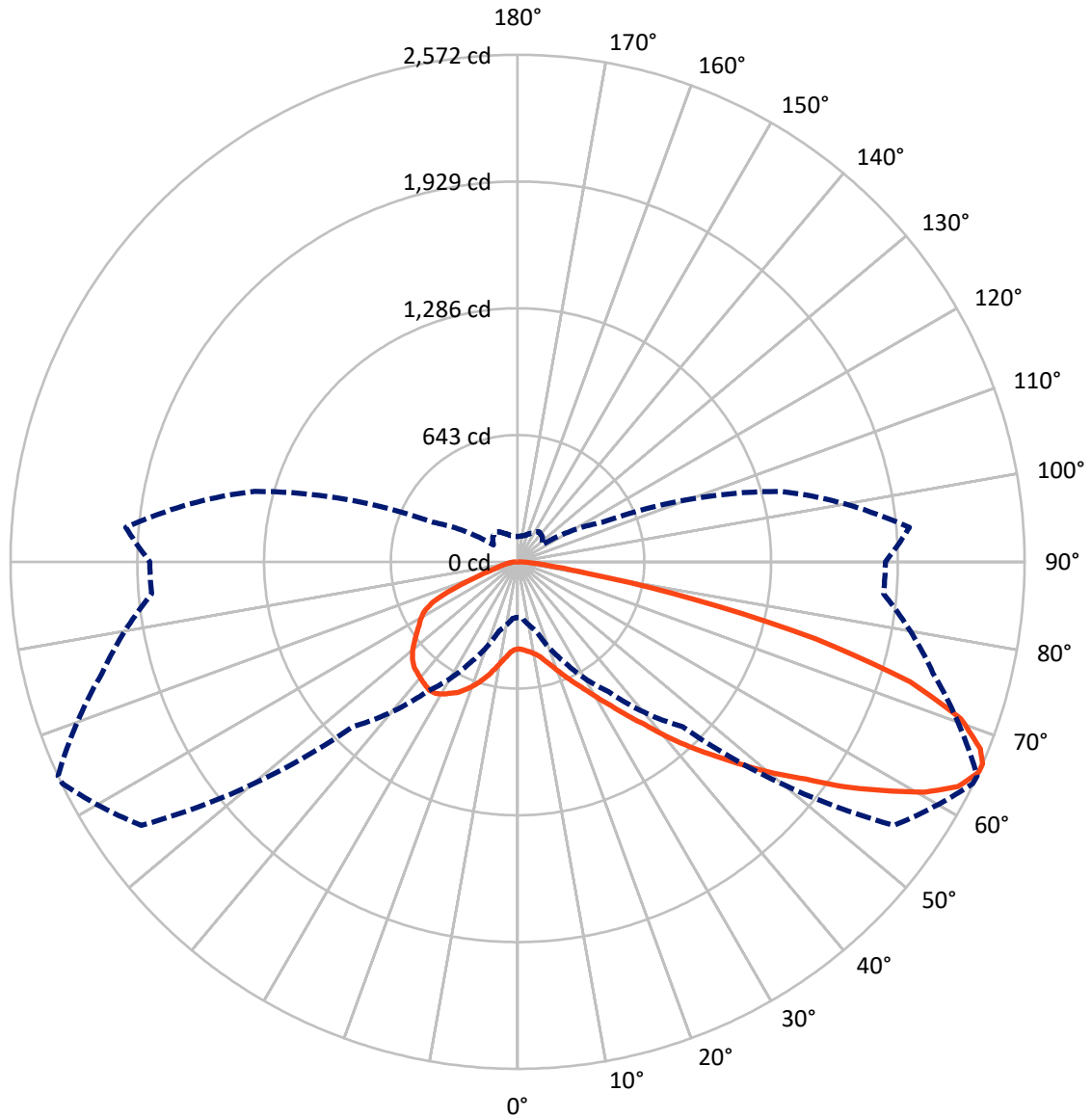
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 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	1346.0	0.0	1346.0
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3087.0	0.0	3087.0
	% Fixture	69.6	0.0	69.6
Total	Lumens	4433.0	0.0	4433.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	1.0
10°-20°	157.1	3.5
20°-30°	307.7	6.9
30°-40°	502.8	11.3
40°-50°	798.0	18.0
50°-60°	1026.4	23.2
60°-70°	925.6	20.9
70°-80°	574.1	13.0
80°-90°	96.2	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°	4433.0	100.0
0°-180°	4433.0	100.0

Coefficient of Utilization

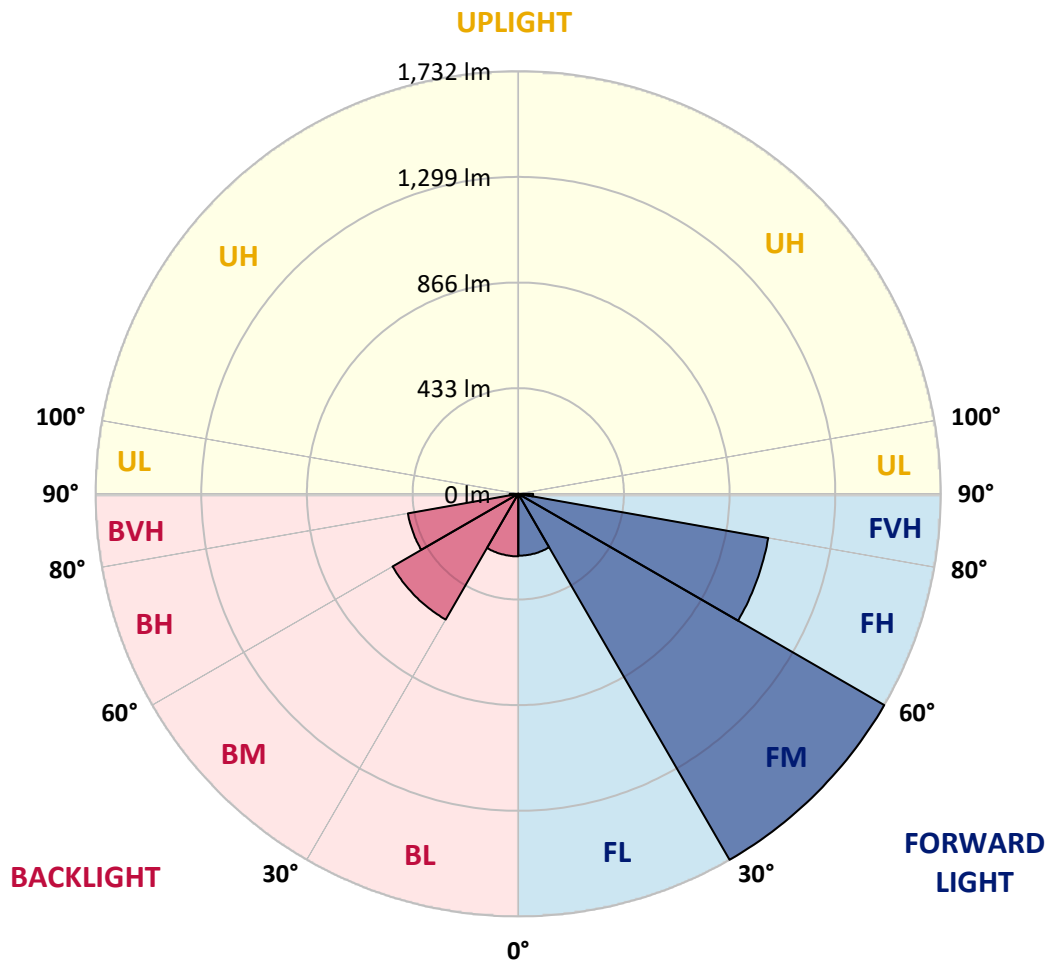


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.5	5.7			
FM (30°-60°)	1732.2	39.1			
FH (60°-80°)	1040.4	23.5			G1/1800
FVH (80°-90°)	60.9	1.4			G1/100
BL (0°-30°)	256.4	5.8	B1/500		
BM (30°-60°)	595.0	13.4	B1/1000		
BH (60°-80°)	459.3	10.4	B1/500		G1/500
BVH (80°-90°)	35.3	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°	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9
2.5°	442.9	444.0	445.1	442.9	445.1	446.2	444.0	444.0	445.1	442.9	442.9
5°	439.7	440.8	442.9	444.0	448.3	450.5	451.5	451.5	452.6	451.5	452.6
7.5°	431.1	431.1	435.4	437.6	444.0	451.5	455.8	462.3	462.3	463.4	466.6
10°	439.7	439.7	442.9	446.2	451.5	458.0	464.4	472.0	474.1	481.6	485.9
12.5°	452.6	454.8	459.1	463.4	469.8	477.3	482.7	490.2	491.3	498.8	507.4
15°	474.1	476.3	478.4	483.8	492.4	502.1	511.7	517.1	519.3	523.6	530.0
17.5°	506.4	508.5	509.6	512.8	519.3	532.2	546.1	550.4	552.6	552.6	558.0
20°	561.2	560.1	558.0	551.5	551.5	563.4	582.7	590.2	592.4	588.1	584.9
22.5°	624.6	623.6	615.0	607.4	602.1	604.2	623.6	636.5	635.4	626.8	613.9
25°	707.4	709.6	695.6	676.2	660.1	655.8	667.6	680.5	682.7	666.6	645.1
27.5°	806.3	803.1	795.6	764.4	733.2	713.9	720.3	734.3	735.4	718.2	683.8
30°	922.4	917.1	897.7	865.5	817.1	790.2	784.8	796.6	799.9	770.8	721.4
32.5°	1051.4	1046.1	1021.3	971.9	919.2	874.1	856.9	873.0	870.8	837.5	768.7
35°	1207.3	1206.3	1161.1	1099.8	1033.2	973.0	949.3	949.3	955.8	906.3	828.9
37.5°	1415.9	1424.5	1357.8	1262.2	1168.6	1088.0	1048.2	1046.1	1047.1	993.4	896.6
40°	1604.0	1600.8	1562.1	1472.9	1336.3	1233.1	1174.0	1161.1	1164.3	1095.5	984.8
42.5°	1712.6	1715.9	1706.2	1667.5	1548.1	1418.1	1317.0	1282.6	1283.7	1197.7	1068.6
45°	1780.4	1783.6	1782.5	1801.9	1754.6	1632.0	1487.9	1408.4	1404.1	1313.8	1167.6
47.5°	1819.1	1821.2	1835.2	1875.0	1913.7	1885.7	1677.2	1548.1	1539.5	1422.4	1266.5
50°	1776.1	1777.1	1833.0	1927.6	2022.3	2107.2	1870.7	1686.8	1684.7	1542.8	1363.2
52.5°	1550.3	1569.6	1693.3	1891.1	2102.9	2264.2	2094.3	1850.2	1832.0	1656.7	1460.0
55°	1265.4	1274.0	1415.9	1667.5	2087.8	2360.9	2263.1	2026.6	2013.7	1783.6	1554.6
57.5°	988.0	996.6	1165.4	1375.0	1857.8	2355.5	2382.4	2216.8	2187.8	1894.3	1649.2
60°	637.5	664.4	860.1	1118.1	1504.1	2192.1	2442.6	2399.6	2372.7	2004.0	1729.8
62.5°	433.3	437.6	560.1	828.9	1125.6	1781.4	2438.3	2512.5	2508.2	2113.6	1810.5
65°	281.7	288.1	362.3	561.2	805.2	1182.6	2330.8	2567.3	2571.6	2181.4	1863.1
66°	238.7	243.0	300.0	472.0	705.3	937.5	2236.2	2563.0	2571.6	2212.5	1879.3
67.5°	207.5	210.7	239.7	348.3	576.3	674.1	1990.0	2506.0	2530.8	2241.6	1899.7
70°	178.5	182.8	209.6	237.6	411.8	393.5	1260.0	2359.8	2384.6	2255.6	1912.6
72.5°	147.3	150.5	177.4	215.0	298.9	264.5	555.8	2020.1	2082.5	2203.9	1892.2
75°	116.1	118.3	143.0	179.5	229.0	206.4	241.9	1481.5	1560.0	1942.7	1812.6
77.5°	90.3	91.4	110.7	139.8	209.6	160.2	149.4	721.4	912.8	1500.8	1596.5
80°	62.4	64.5	81.7	105.4	153.7	126.9	100.0	281.7	358.0	996.6	1210.6
82.5°	40.9	41.9	55.9	79.6	102.1	121.5	65.6	136.5	150.5	459.1	524.6
85°	28.0	28.0	39.8	49.5	69.9	80.6	43.0	72.0	78.5	174.2	63.4
87.5°	14.0	14.0	19.4	25.8	33.3	31.2	25.8	25.8	25.8	57.0	18.3
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°	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9	441.9
2.5°	444.0	444.0	445.1	446.2	447.2	447.2	448.3	448.3	447.2	448.3	449.4
5°	453.7	454.8	456.9	460.1	465.5	470.9	476.3	479.5	482.7	483.8	481.6
7.5°	468.7	470.9	478.4	487.0	495.6	508.5	516.0	520.3	522.5	524.6	522.5
10°	488.1	492.4	503.1	518.2	533.2	549.4	558.0	564.4	565.5	567.7	565.5
12.5°	510.7	518.2	534.3	555.8	574.1	590.2	596.7	592.4	582.7	578.4	577.3
15°	537.5	545.1	567.7	594.5	616.0	623.6	613.9	599.9	589.2	588.1	587.0
17.5°	561.2	572.0	603.1	631.1	651.5	644.0	618.2	609.6	606.4	610.7	609.6
20°	591.3	599.9	631.1	665.5	676.2	647.2	628.9	623.6	620.3	620.3	618.2
22.5°	616.0	622.5	660.1	697.7	691.3	649.4	636.5	625.7	615.0	613.9	610.7
25°	645.1	647.2	687.0	727.8	693.4	651.5	628.9	610.7	599.9	596.7	597.8
27.5°	671.9	677.3	711.7	748.3	688.1	639.7	603.1	579.5	563.4	562.3	562.3
30°	706.3	706.3	737.5	770.8	676.2	609.6	561.2	526.8	513.9	512.8	510.7
32.5°	745.0	738.6	768.7	787.0	650.4	568.7	504.2	465.5	445.1	440.8	437.6
35°	798.8	784.8	806.3	790.2	624.6	510.7	432.2	388.1	373.1	366.6	366.6
37.5°	861.2	840.7	863.3	780.5	584.9	442.9	356.9	323.6	307.5	297.8	301.0
40°	934.3	908.5	921.4	769.8	541.8	367.7	294.6	274.1	254.8	241.9	241.9
42.5°	1020.3	977.3	986.9	759.0	480.6	302.1	254.8	240.8	225.8	212.9	216.1
45°	1103.0	1061.1	1051.4	748.3	416.1	258.0	238.7	229.0	215.0	200.0	200.0
47.5°	1198.7	1145.0	1108.4	728.9	352.6	244.0	243.0	229.0	202.1	180.6	178.5
50°	1289.0	1239.6	1160.0	699.9	317.2	255.9	241.9	208.6	182.8	168.8	167.7
52.5°	1384.7	1333.1	1202.0	664.4	298.9	250.5	222.5	191.4	172.0	158.0	154.8
55°	1479.3	1452.5	1239.6	630.0	269.8	233.3	206.4	180.6	160.2	147.3	145.1
57.5°	1586.8	1576.1	1271.8	595.6	224.7	211.8	194.6	173.1	153.7	144.1	143.0
60°	1680.4	1718.0	1310.5	569.8	191.4	195.7	189.2	172.0	158.0	147.3	147.3
62.5°	1779.3	1854.5	1344.9	536.5	166.6	186.0	190.3	170.9	152.7	143.0	143.0
65°	1865.3	1994.3	1380.4	475.2	149.4	178.5	187.1	159.1	137.6	130.1	127.9
66°	1901.8	2034.1	1391.2	437.6	143.0	173.1	181.7	152.7	131.2	124.7	123.6
67.5°	1944.8	2096.4	1404.1	356.9	133.3	161.3	169.9	143.0	120.4	116.1	114.0
70°	2005.1	2109.3	1396.6	233.3	116.1	138.7	151.6	127.9	107.5	104.3	101.1
72.5°	2011.5	2021.2	1321.3	147.3	101.1	119.3	133.3	115.0	94.6	91.4	89.2
75°	1905.1	1791.1	1118.1	105.4	89.2	105.4	117.2	100.0	78.5	74.2	72.0
77.5°	1626.6	1421.3	804.2	78.5	77.4	90.3	97.8	87.1	65.6	62.4	61.3
80°	1141.8	964.4	403.2	59.1	61.3	75.3	81.7	73.1	54.8	50.5	48.4
82.5°	462.3	409.6	138.7	44.1	46.2	57.0	69.9	60.2	41.9	36.6	32.3
85°	52.7	89.2	60.2	30.1	31.2	38.7	47.3	36.6	24.7	20.4	17.2
87.5°	10.8	19.4	21.5	11.8	10.8	15.1	21.5	12.9	8.6	3.2	4.3
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)