

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: P594590

Luminaire Tested: **ISS-PA1B-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594590
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-827-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 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: 3896 lumens
Efficiency: N/A
Efficacy: 107.0 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

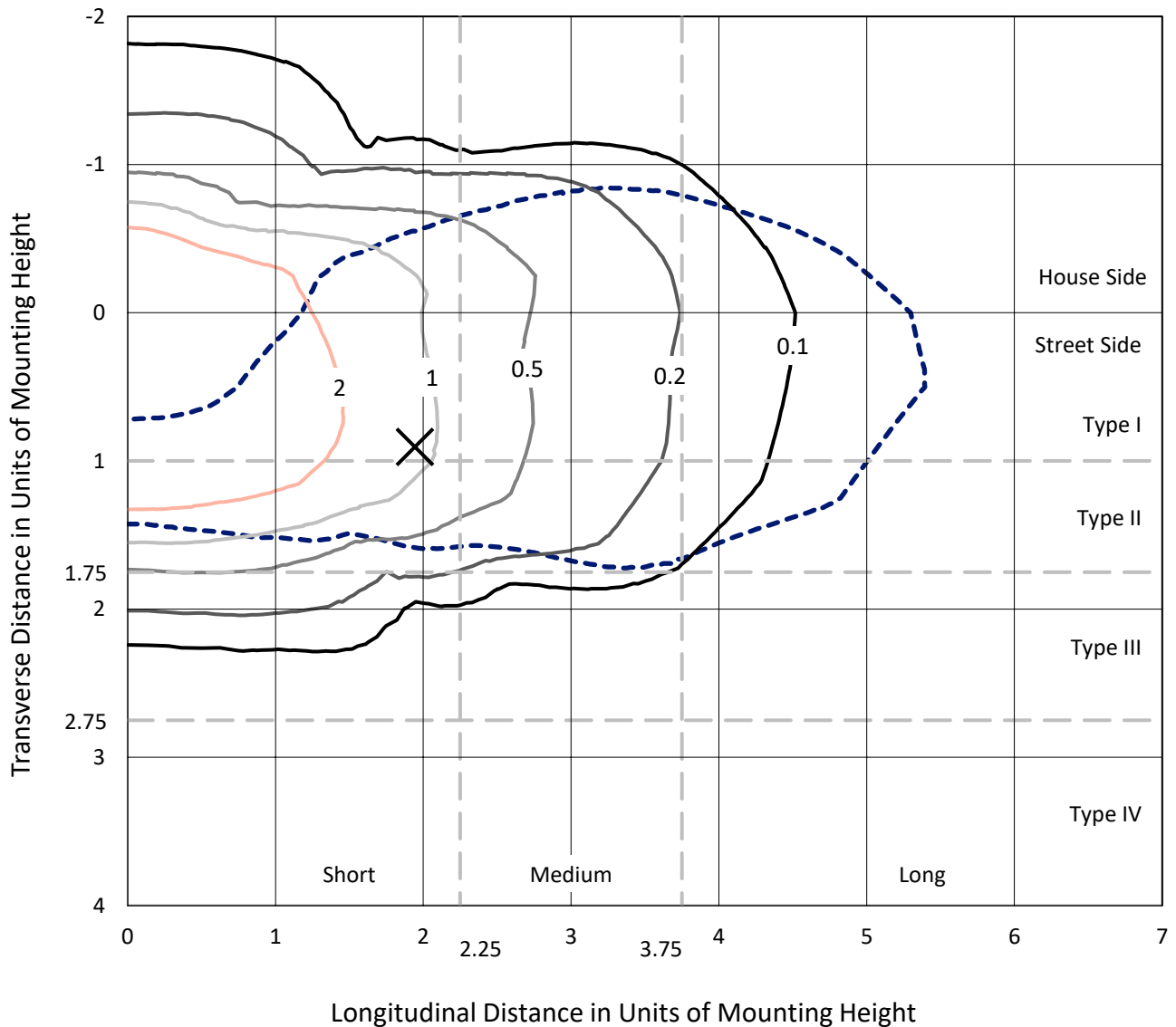
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

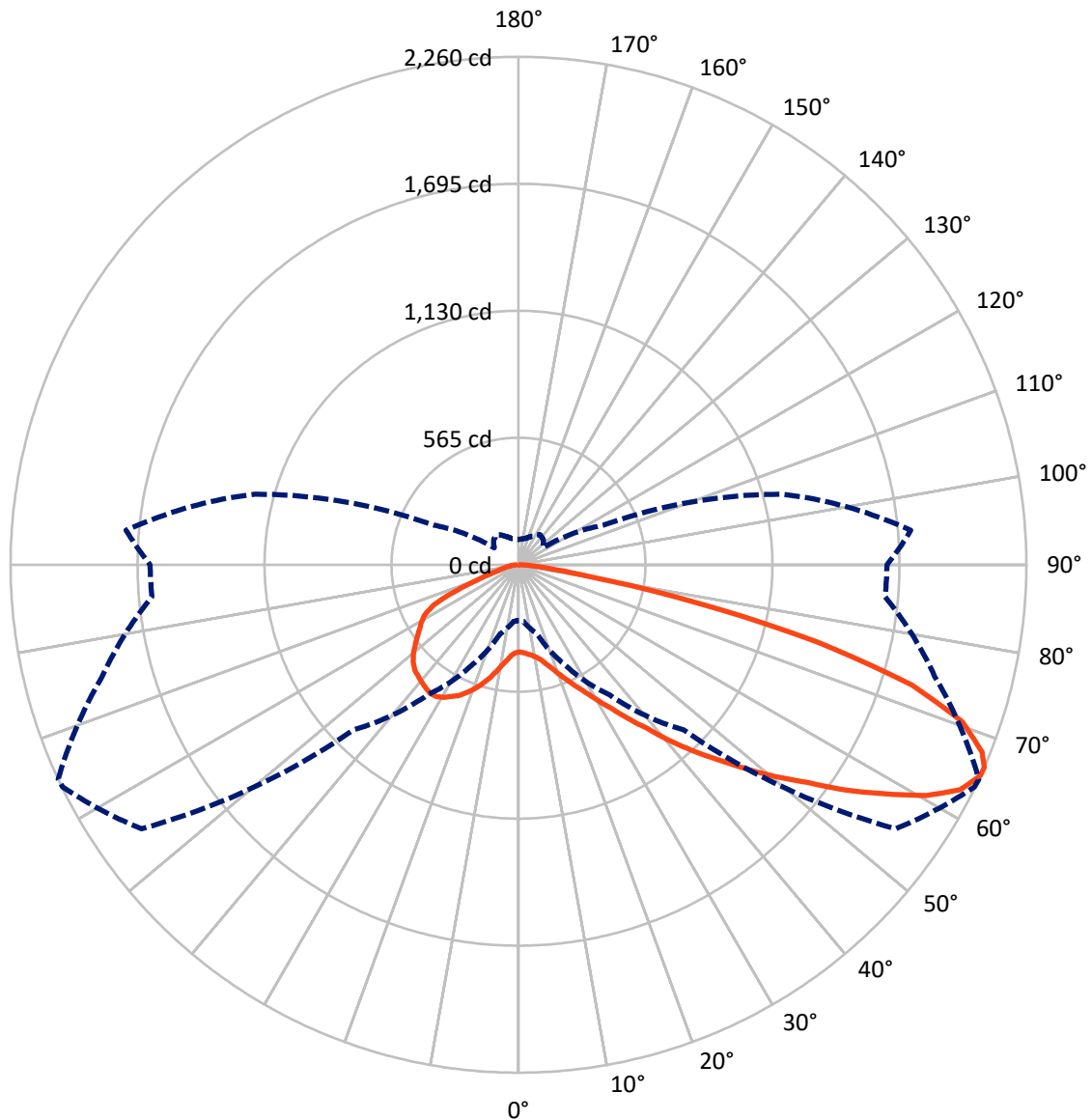
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 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	1183.0	0.0	1183.0
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	2713.0	0.0	2713.0
	% Fixture	69.6	0.0	69.6
Total	Lumens	3896.0	0.0	3896.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	1.0
10°-20°	138.1	3.5
20°-30°	270.4	6.9
30°-40°	441.9	11.3
40°-50°	701.4	18.0
50°-60°	902.1	23.2
60°-70°	813.5	20.9
70°-80°	504.5	13.0
80°-90°	84.5	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°	3896.0	100.0
0°-180°	3896.0	100.0



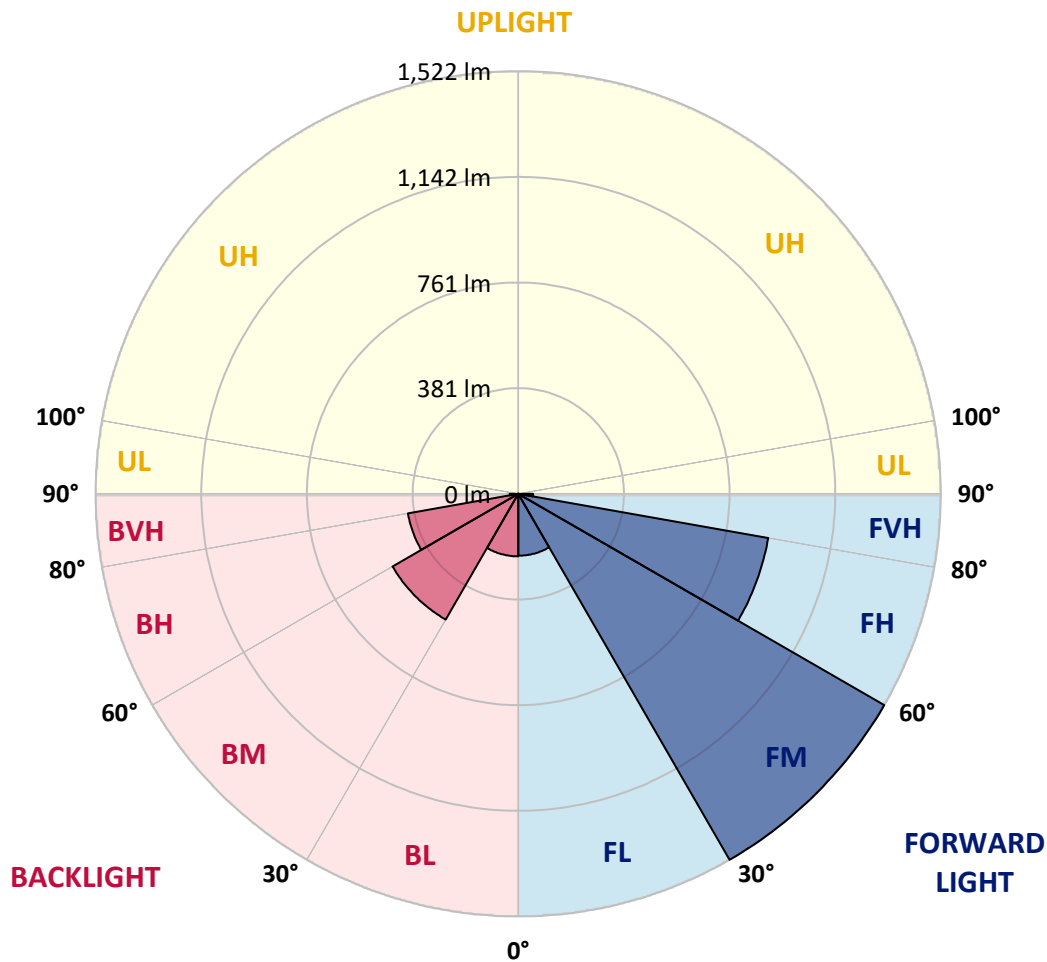
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	222.8	5.7			
FM (30°-60°)	1522.3	39.1			
FH (60°-80°)	914.4	23.5			G1/1800
FVH (80°-90°)	53.5	1.4			G1/100
BL (0°-30°)	225.3	5.8	B1/500		
BM (30°-60°)	523.0	13.4	B1/1000		
BH (60°-80°)	403.6	10.4	B1/500		G1/500
BVH (80°-90°)	31.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
2.5°	389.3	390.2	391.2	389.3	391.2	392.1	390.2	390.2	391.2	389.3	389.3
5°	386.4	387.4	389.3	390.2	394.0	395.9	396.8	396.8	397.8	396.8	397.8
7.5°	378.9	378.9	382.7	384.6	390.2	396.8	400.6	406.3	406.3	407.2	410.1
10°	386.4	386.4	389.3	392.1	396.8	402.5	408.2	414.8	416.7	423.3	427.1
12.5°	397.8	399.7	403.5	407.2	412.9	419.5	424.2	430.9	431.8	438.4	446.0
15°	416.7	418.6	420.5	425.2	432.7	441.3	449.8	454.5	456.4	460.1	465.8
17.5°	445.0	446.9	447.9	450.7	456.4	467.7	480.0	483.8	485.7	485.7	490.4
20°	493.2	492.3	490.4	484.7	484.7	495.1	512.1	518.7	520.6	516.8	514.0
22.5°	549.0	548.0	540.5	533.8	529.1	531.0	548.0	559.4	558.4	550.9	539.5
25°	621.7	623.6	611.3	594.3	580.1	576.4	586.8	598.1	600.0	585.8	566.9
27.5°	708.6	705.8	699.2	671.8	644.4	627.4	633.1	645.3	646.3	631.2	600.9
30°	810.7	806.0	789.0	760.6	718.1	694.5	689.7	700.1	703.0	677.5	634.0
32.5°	924.1	919.4	897.6	854.2	807.9	768.2	753.1	767.2	765.3	736.0	675.6
35°	1061.1	1060.1	1020.5	966.6	908.0	855.1	834.3	834.3	840.0	796.5	728.5
37.5°	1244.4	1251.9	1193.4	1109.3	1027.1	956.2	921.2	919.4	920.3	873.1	788.0
40°	1409.7	1406.9	1372.9	1294.5	1174.5	1083.8	1031.8	1020.5	1023.3	962.8	865.5
42.5°	1505.2	1508.0	1499.5	1465.5	1360.6	1246.3	1157.5	1127.2	1128.2	1052.6	939.2
45°	1564.7	1567.5	1566.6	1583.6	1542.0	1434.3	1307.7	1237.8	1234.0	1154.6	1026.1
47.5°	1598.7	1600.6	1612.9	1647.8	1681.9	1657.3	1474.0	1360.6	1353.0	1250.1	1113.0
50°	1560.9	1561.9	1611.0	1694.1	1777.3	1851.9	1644.1	1482.5	1480.6	1355.9	1198.1
52.5°	1362.5	1379.5	1488.2	1662.0	1848.2	1989.9	1840.6	1626.1	1610.0	1456.0	1283.1
55°	1112.1	1119.7	1244.4	1465.5	1834.9	2074.9	1988.9	1781.1	1769.7	1567.5	1366.3
57.5°	868.3	875.9	1024.2	1208.5	1632.7	2070.2	2093.8	1948.3	1922.8	1664.8	1449.4
60°	560.3	583.9	755.9	982.7	1321.9	1926.6	2146.7	2108.9	2085.3	1761.2	1520.3
62.5°	380.8	384.6	492.3	728.5	989.3	1565.6	2142.9	2208.1	2204.4	1857.6	1591.1
65°	247.6	253.2	318.4	493.2	707.7	1039.3	2048.5	2256.3	2260.1	1917.1	1637.4
66°	209.8	213.5	263.6	414.8	619.8	823.9	1965.3	2252.6	2260.1	1944.5	1651.6
67.5°	182.4	185.2	210.7	306.1	506.4	592.4	1748.9	2202.5	2224.2	1970.0	1669.6
70°	156.8	160.6	184.2	208.8	361.9	345.8	1107.4	2074.0	2095.7	1982.3	1680.9
72.5°	129.4	132.3	155.9	189.0	262.7	232.4	488.5	1775.4	1830.2	1937.0	1663.0
75°	102.0	103.9	125.7	157.8	201.3	181.4	212.6	1302.0	1371.0	1707.4	1593.0
77.5°	79.4	80.3	97.3	122.8	184.2	140.8	131.3	634.0	802.2	1319.0	1403.1
80°	54.8	56.7	71.8	92.6	135.1	111.5	87.9	247.6	314.6	875.9	1063.9
82.5°	35.9	36.8	49.1	69.9	89.8	106.8	57.6	120.0	132.3	403.5	461.1
85°	24.6	24.6	35.0	43.5	61.4	70.9	37.8	63.3	69.0	153.1	55.7
87.5°	12.3	12.3	17.0	22.7	29.3	27.4	22.7	22.7	22.7	50.1	16.1
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°	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
2.5°	390.2	390.2	391.2	392.1	393.1	393.1	394.0	394.0	393.1	394.0	395.0
5°	398.7	399.7	401.6	404.4	409.1	413.8	418.6	421.4	424.2	425.2	423.3
7.5°	412.0	413.8	420.5	428.0	435.6	446.9	453.5	457.3	459.2	461.1	459.2
10°	429.0	432.7	442.2	455.4	468.7	482.8	490.4	496.1	497.0	498.9	497.0
12.5°	448.8	455.4	469.6	488.5	504.6	518.7	524.4	520.6	512.1	508.3	507.4
15°	472.4	479.0	498.9	522.5	541.4	548.0	539.5	527.2	517.8	516.8	515.9
17.5°	493.2	502.7	530.1	554.6	572.6	566.0	543.3	535.7	532.9	536.7	535.7
20°	519.7	527.2	554.6	584.9	594.3	568.8	552.7	548.0	545.2	545.2	543.3
22.5°	541.4	547.1	580.1	613.2	607.5	570.7	559.4	549.9	540.5	539.5	536.7
25°	566.9	568.8	603.8	639.7	609.4	572.6	552.7	536.7	527.2	524.4	525.3
27.5°	590.5	595.3	625.5	657.6	604.7	562.2	530.1	509.3	495.1	494.2	494.2
30°	620.8	620.8	648.2	677.5	594.3	535.7	493.2	463.0	451.6	450.7	448.8
32.5°	654.8	649.1	675.6	691.6	571.6	499.8	443.1	409.1	391.2	387.4	384.6
35°	702.0	689.7	708.6	694.5	549.0	448.8	379.8	341.1	327.9	322.2	322.2
37.5°	756.8	738.9	758.7	686.0	514.0	389.3	313.7	284.4	270.2	261.7	264.6
40°	821.1	798.4	809.7	676.5	476.2	323.1	258.9	240.9	223.9	212.6	212.6
42.5°	896.7	858.9	867.4	667.1	422.4	265.5	223.9	211.6	198.4	187.1	189.9
45°	969.4	932.6	924.1	657.6	365.7	226.8	209.8	201.3	189.0	175.7	175.7
47.5°	1053.5	1006.3	974.2	640.6	309.9	214.5	213.5	201.3	177.6	158.7	156.8
50°	1132.9	1089.4	1019.5	615.1	278.7	224.9	212.6	183.3	160.6	148.3	147.4
52.5°	1217.0	1171.6	1056.4	583.9	262.7	220.2	195.6	168.2	151.2	138.9	136.1
55°	1300.1	1276.5	1089.4	553.7	237.2	205.0	181.4	158.7	140.8	129.4	127.6
57.5°	1394.6	1385.2	1117.8	523.5	197.5	186.1	171.0	152.1	135.1	126.6	125.7
60°	1476.8	1509.9	1151.8	500.8	168.2	172.0	166.3	151.2	138.9	129.4	129.4
62.5°	1563.7	1629.9	1182.0	471.5	146.5	163.5	167.2	150.2	134.2	125.7	125.7
65°	1639.3	1752.7	1213.2	417.6	131.3	156.8	164.4	139.8	120.9	114.3	112.4
66°	1671.5	1787.7	1222.7	384.6	125.7	152.1	159.7	134.2	115.3	109.6	108.7
67.5°	1709.3	1842.5	1234.0	313.7	117.2	141.7	149.3	125.7	105.8	102.0	100.2
70°	1762.2	1853.8	1227.4	205.0	102.0	121.9	133.2	112.4	94.5	91.7	88.8
72.5°	1767.8	1776.3	1161.2	129.4	88.8	104.9	117.2	101.1	83.1	80.3	78.4
75°	1674.3	1574.1	982.7	92.6	78.4	92.6	103.0	87.9	69.0	65.2	63.3
77.5°	1429.6	1249.1	706.8	69.0	68.0	79.4	86.0	76.5	57.6	54.8	53.9
80°	1003.4	847.5	354.3	52.0	53.9	66.1	71.8	64.3	48.2	44.4	42.5
82.5°	406.3	360.0	121.9	38.7	40.6	50.1	61.4	52.9	36.8	32.1	28.3
85°	46.3	78.4	52.9	26.5	27.4	34.0	41.6	32.1	21.7	18.0	15.1
87.5°	9.4	17.0	18.9	10.4	9.4	13.2	18.9	11.3	7.6	2.8	3.8
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)