

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: P594511

Luminaire Tested: **ISS-PA1A-830-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1A-830-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3332 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

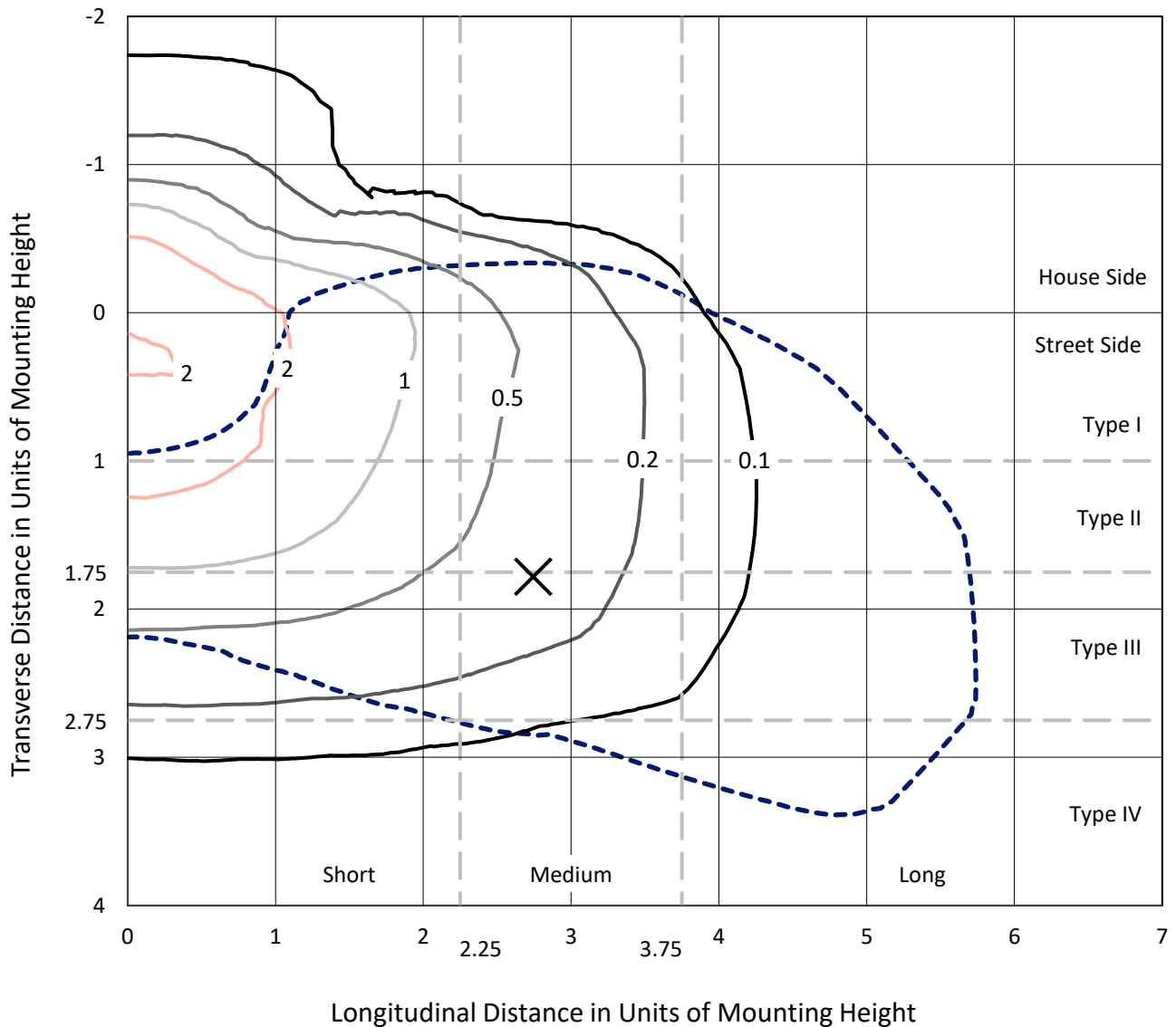
Input Watts (W): 28.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

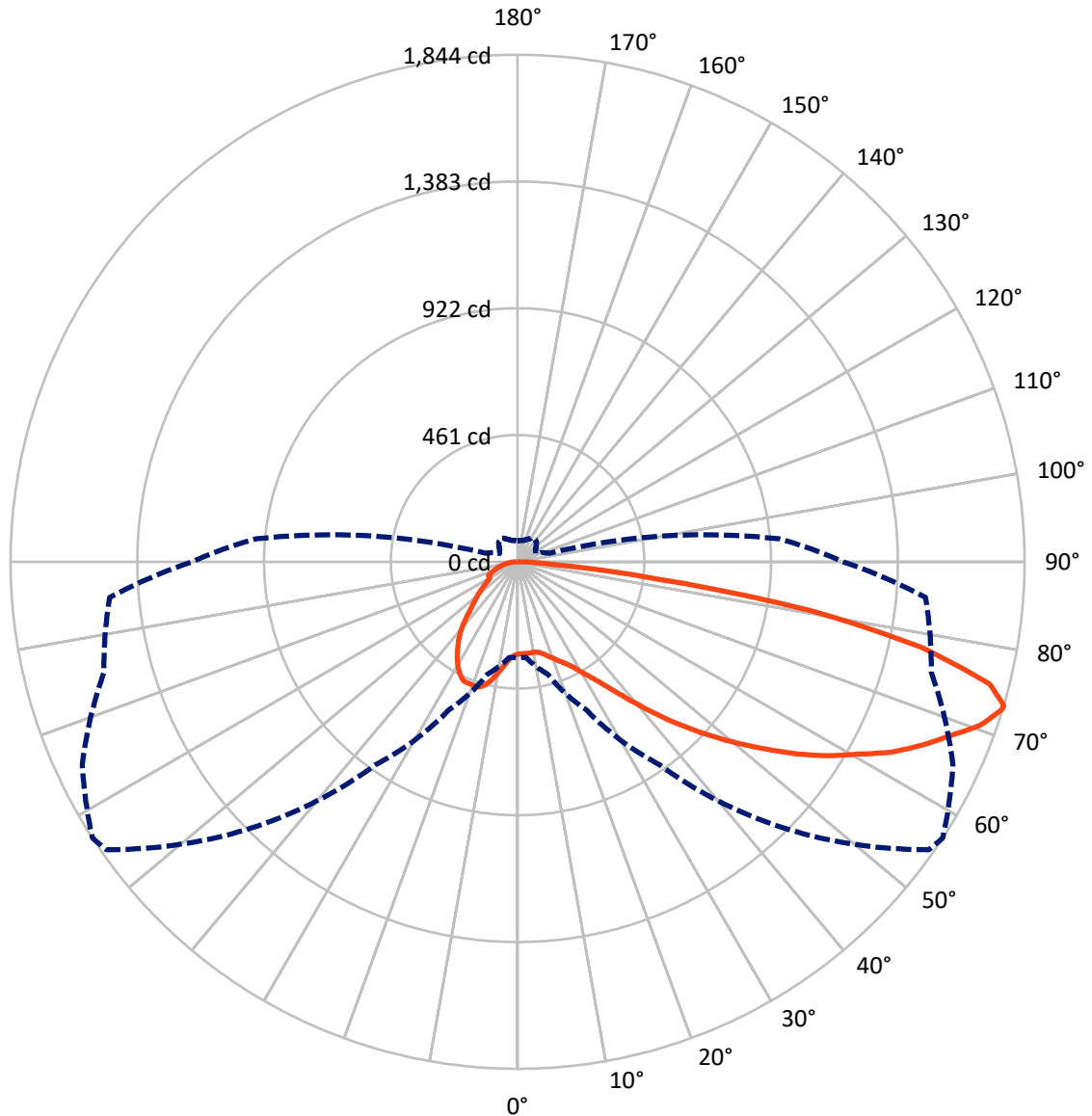
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	794.9	0.0	794.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2537.1	0.0	2537.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3332.0	0.0	3332.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.5	1.0
10°-20°	110.2	3.3
20°-30°	203.5	6.1
30°-40°	314.2	9.4
40°-50°	473.0	14.2
50°-60°	692.3	20.8
60°-70°	817.5	24.5
70°-80°	585.3	17.6
80°-90°	102.6	3.1
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°	3332.0	100.0
0°-180°	3332.0	100.0

**Coefficient of Utilization**

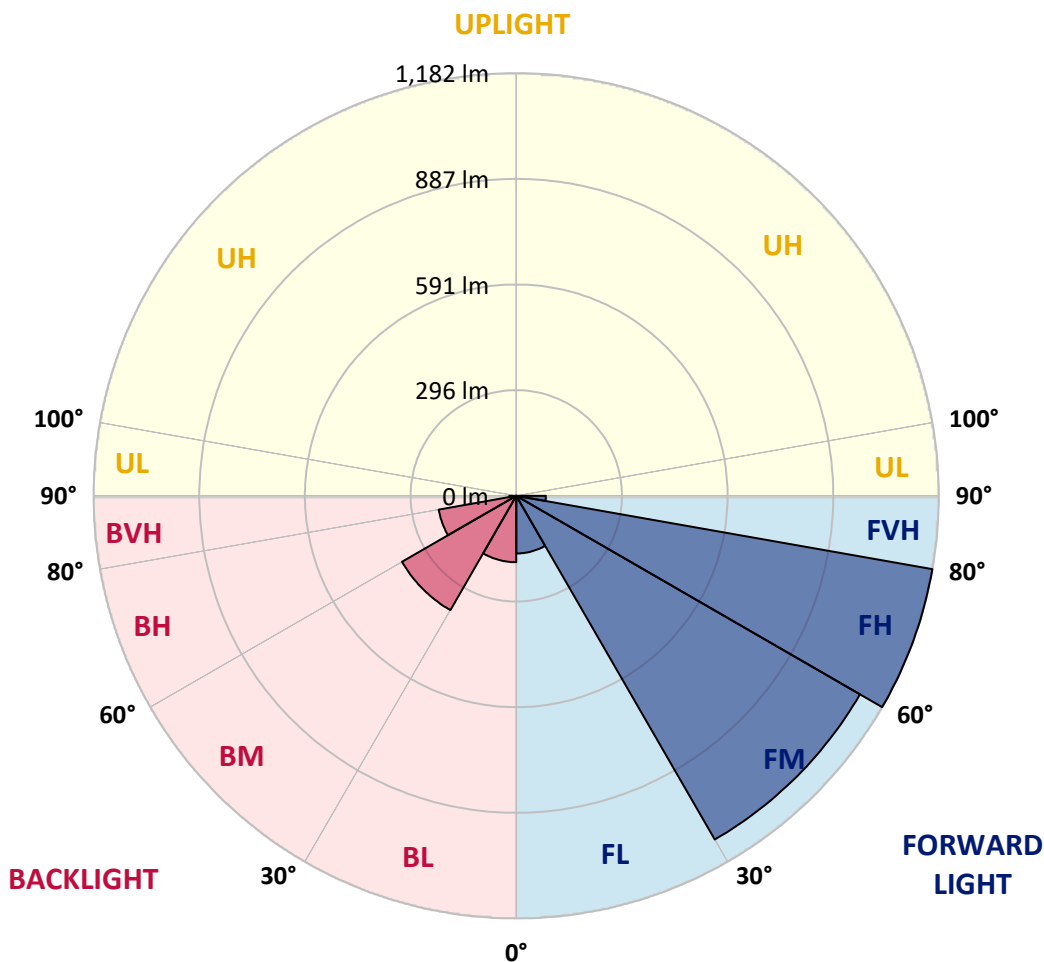


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.5	4.8			
FM (30°-60°)	1110.3	33.3			
FH (60°-80°)	1182.4	35.5			G1/1800
FVH (80°-90°)	83.0	2.5			G1/100
BL (0°-30°)	185.8	5.6	B1/500		
BM (30°-60°)	369.2	11.1	B1/1000		
BH (60°-80°)	220.4	6.6	B1/500		G1/500
BVH (80°-90°)	19.6	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7
2.5°	331.6	333.3	332.4	333.3	335.7	334.1	334.1	334.9	335.7	334.9	336.5
5°	317.7	318.5	320.2	323.4	329.2	330.8	334.9	334.9	336.5	338.2	340.6
7.5°	294.9	296.5	299.8	303.0	312.8	322.6	333.3	334.9	340.6	344.7	346.3
10°	290.8	292.4	293.2	298.1	307.9	317.7	330.8	334.1	344.7	351.2	358.6
12.5°	286.7	288.3	290.8	297.3	309.6	320.2	334.1	337.3	350.4	363.5	372.5
15°	290.0	290.8	293.2	299.8	312.0	326.7	344.7	347.1	361.8	378.2	392.1
17.5°	298.1	298.9	298.1	303.8	315.3	332.4	356.9	361.0	379.0	395.3	409.2
20°	316.9	317.7	314.5	314.5	322.6	339.8	370.0	375.7	397.8	415.7	429.6
22.5°	357.8	356.1	348.0	337.3	337.3	351.2	384.7	392.9	420.6	435.3	447.6
25°	415.7	415.7	402.7	383.1	370.0	368.4	401.9	410.8	443.5	461.5	468.8
27.5°	486.0	486.8	465.6	439.4	414.1	401.9	426.4	435.3	472.1	490.9	493.3
30°	548.1	548.9	527.6	503.1	472.1	445.2	459.0	468.8	511.3	526.0	517.8
32.5°	610.1	611.0	596.3	562.8	530.1	496.6	500.7	506.4	549.7	563.6	550.5
35°	664.0	666.5	651.8	626.5	592.2	562.0	554.6	555.4	594.6	603.6	586.5
37.5°	718.8	718.8	709.8	686.1	656.7	623.2	613.4	615.9	651.0	660.0	635.5
40°	788.2	791.5	786.6	757.2	723.7	695.9	686.1	689.4	727.8	722.9	696.7
42.5°	872.3	879.7	871.5	839.7	803.7	772.7	772.7	772.7	805.4	806.2	767.0
45°	980.1	980.1	972.0	944.2	896.8	865.8	855.2	857.6	886.2	889.5	843.7
47.5°	1070.0	1078.2	1069.2	1048.8	1011.2	981.8	948.3	944.2	967.9	967.9	928.7
50°	1142.7	1157.4	1150.0	1159.0	1132.1	1117.4	1048.8	1037.3	1045.5	1053.7	1010.4
52.5°	1203.1	1214.6	1212.1	1238.3	1251.3	1259.5	1150.9	1132.9	1139.4	1138.6	1099.4
55°	1207.2	1211.3	1248.1	1306.9	1358.3	1396.7	1253.8	1234.2	1227.6	1224.4	1194.1
57.5°	1183.5	1186.0	1259.5	1328.9	1440.8	1484.9	1351.0	1331.4	1322.4	1310.9	1298.7
60°	1126.4	1138.6	1235.0	1342.0	1489.8	1553.5	1441.6	1421.2	1414.7	1390.2	1417.9
62.5°	1053.7	1059.4	1155.8	1315.0	1496.4	1582.9	1537.2	1524.9	1504.5	1469.4	1524.1
65°	950.7	949.9	1034.9	1235.8	1462.9	1597.6	1618.1	1611.5	1586.2	1525.8	1618.9
67.5°	780.9	799.6	882.9	1095.3	1382.0	1612.3	1700.6	1692.4	1652.4	1576.4	1663.8
70°	595.4	606.9	701.6	884.6	1221.1	1572.3	1781.4	1783.9	1711.2	1587.0	1644.2
72.5°	379.8	399.4	474.6	644.4	977.7	1423.7	1829.6	1841.0	1743.8	1572.3	1522.5
73°	348.0	349.6	423.1	596.3	901.7	1370.6	1826.3	1844.3	1747.1	1557.6	1489.0
75°	207.5	216.4	260.6	396.1	643.6	1101.0	1738.1	1774.1	1730.0	1492.3	1305.2
77.5°	97.2	103.7	128.2	209.1	350.4	662.4	1461.2	1503.7	1533.1	1306.0	994.8
80°	51.5	52.3	62.9	105.4	187.9	272.8	1018.5	1088.8	1130.4	983.4	669.0
82.5°	43.3	43.3	49.0	67.8	120.1	106.2	419.8	499.9	612.6	484.4	263.0
85°	35.1	35.9	49.0	50.6	85.8	54.7	100.5	125.8	237.7	214.0	29.4
87.5°	11.4	13.1	27.8	35.9	45.7	21.2	25.3	27.8	27.8	40.8	9.8
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°	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7	335.7
2.5°	337.3	337.3	338.2	339.0	340.6	340.6	342.2	343.1	344.7	345.5	343.1
5°	340.6	342.2	343.9	348.8	354.5	359.4	364.3	368.4	372.5	374.9	374.1
7.5°	349.6	352.0	358.6	367.6	379.0	386.3	393.7	401.0	404.3	405.9	405.9
10°	361.8	366.7	379.0	393.7	406.8	418.2	423.9	428.8	430.4	432.1	430.4
12.5°	379.0	385.5	404.3	423.1	437.8	443.5	442.7	436.2	427.2	425.5	423.9
15°	401.0	409.2	430.4	452.5	463.9	456.6	437.8	431.3	429.6	434.5	432.9
17.5°	419.8	429.6	455.8	478.6	476.2	450.9	445.2	448.4	446.8	447.6	447.6
20°	437.8	451.7	479.5	495.0	473.7	457.4	452.5	448.4	443.5	445.2	443.5
22.5°	460.7	470.5	502.3	503.1	470.5	457.4	446.8	438.6	437.0	437.8	438.6
25°	478.6	494.2	521.9	497.4	470.5	444.3	429.6	428.0	428.8	433.7	432.1
27.5°	503.1	518.7	537.4	494.2	450.9	423.1	417.4	416.6	410.8	412.5	412.5
30°	526.0	544.8	545.6	494.2	426.4	405.1	397.0	382.3	370.0	372.5	371.6
32.5°	557.1	573.4	547.2	474.6	398.6	381.4	359.4	336.5	330.8	334.1	334.9
35°	593.0	606.1	548.9	441.9	370.8	348.0	307.9	294.9	294.0	296.5	298.9
37.5°	640.4	647.7	561.1	404.3	343.9	295.7	264.6	261.4	254.0	249.1	249.9
40°	698.4	689.4	584.8	370.8	312.0	248.3	235.2	226.3	212.4	198.5	200.9
42.5°	762.9	737.6	592.2	343.9	268.7	218.9	206.6	192.8	175.6	160.9	160.1
45°	832.3	791.5	585.6	322.6	225.4	196.8	183.8	167.4	147.0	134.8	134.8
47.5°	914.8	842.9	565.2	305.5	195.2	177.2	160.9	144.6	130.7	119.3	119.3
50°	1005.5	902.6	550.5	275.3	174.0	158.5	142.1	129.1	118.4	109.4	109.4
52.5°	1101.0	958.9	538.3	231.2	155.2	141.3	129.9	119.3	110.3	98.8	97.2
55°	1198.2	1012.8	544.0	188.7	138.0	129.1	121.7	111.1	107.8	105.4	103.7
57.5°	1299.5	1071.6	557.9	154.4	123.3	122.5	119.3	126.6	134.0	129.1	126.6
60°	1378.7	1117.4	559.5	129.9	114.4	129.1	145.4	147.8	128.2	116.8	116.0
62.5°	1441.6	1160.7	521.1	112.7	116.8	151.9	155.2	130.7	111.1	106.2	106.2
65°	1474.3	1176.2	419.0	102.9	121.7	145.4	140.5	117.6	103.7	102.9	102.9
67.5°	1458.0	1163.9	293.2	92.3	107.8	125.8	125.8	107.8	95.6	99.6	98.0
70°	1379.6	1103.5	193.6	83.3	94.7	113.5	116.8	100.5	89.0	91.5	89.0
72.5°	1216.2	995.7	127.4	73.5	81.7	100.5	108.6	92.3	81.7	80.9	78.4
73°	1184.3	954.8	120.1	71.9	79.2	97.2	106.2	90.7	80.0	77.6	76.0
75°	1004.7	796.4	90.7	64.5	70.2	87.4	98.8	84.9	73.5	70.2	68.6
77.5°	731.8	552.1	67.8	54.7	58.8	76.0	87.4	77.6	65.3	61.3	60.4
80°	456.6	300.6	50.6	44.1	46.6	63.7	76.8	69.4	56.4	51.5	50.6
82.5°	178.9	98.0	35.1	32.7	34.3	48.2	64.5	60.4	47.4	43.3	40.8
85°	29.4	33.5	22.9	22.1	22.1	34.3	49.0	46.6	31.9	27.8	24.5
87.5°	8.2	15.5	9.0	8.2	8.2	14.7	27.0	21.2	13.1	10.6	9.8
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)