

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: P594513

Luminaire Tested: **ISS-PA1A-830-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3310 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

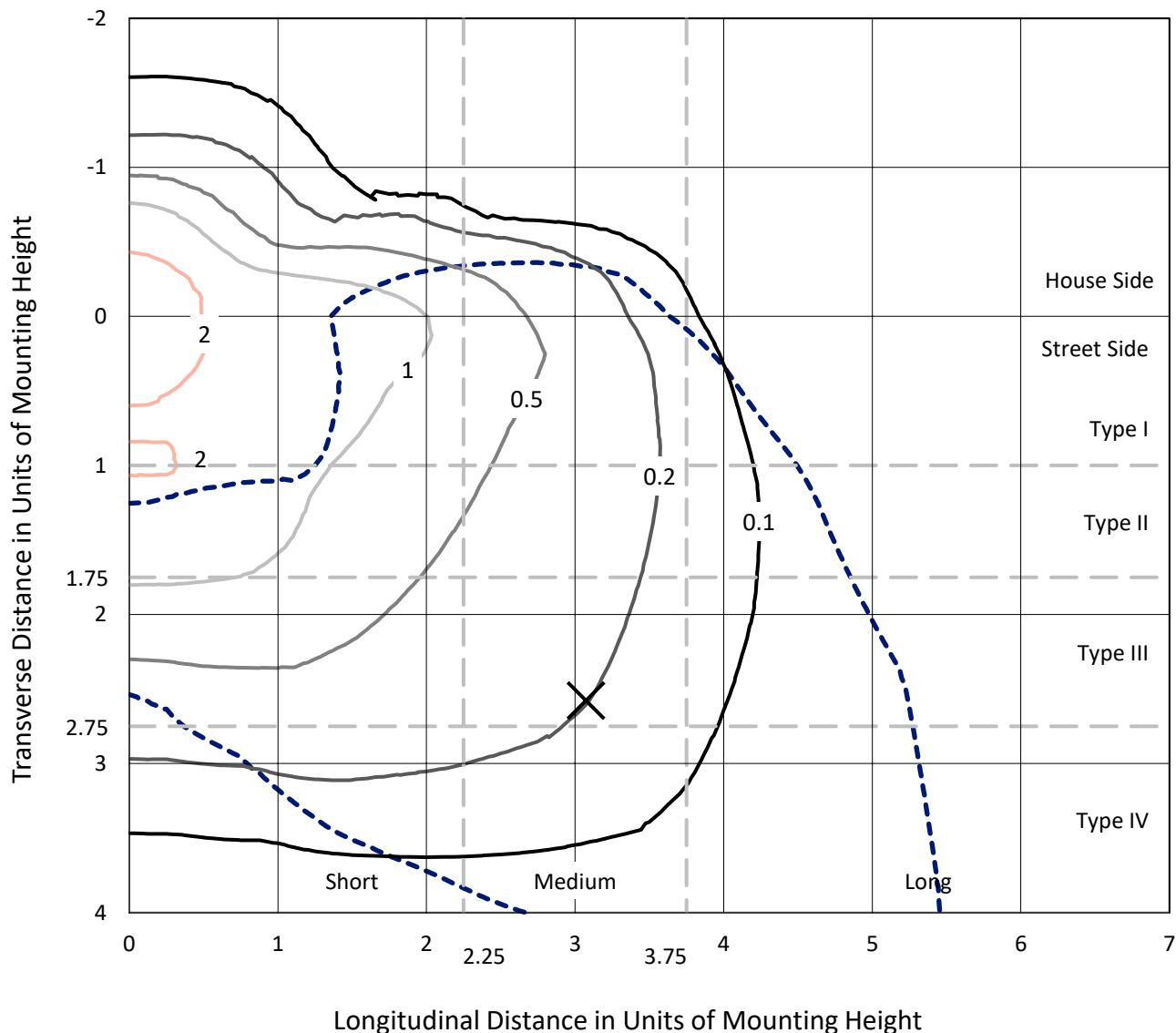
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

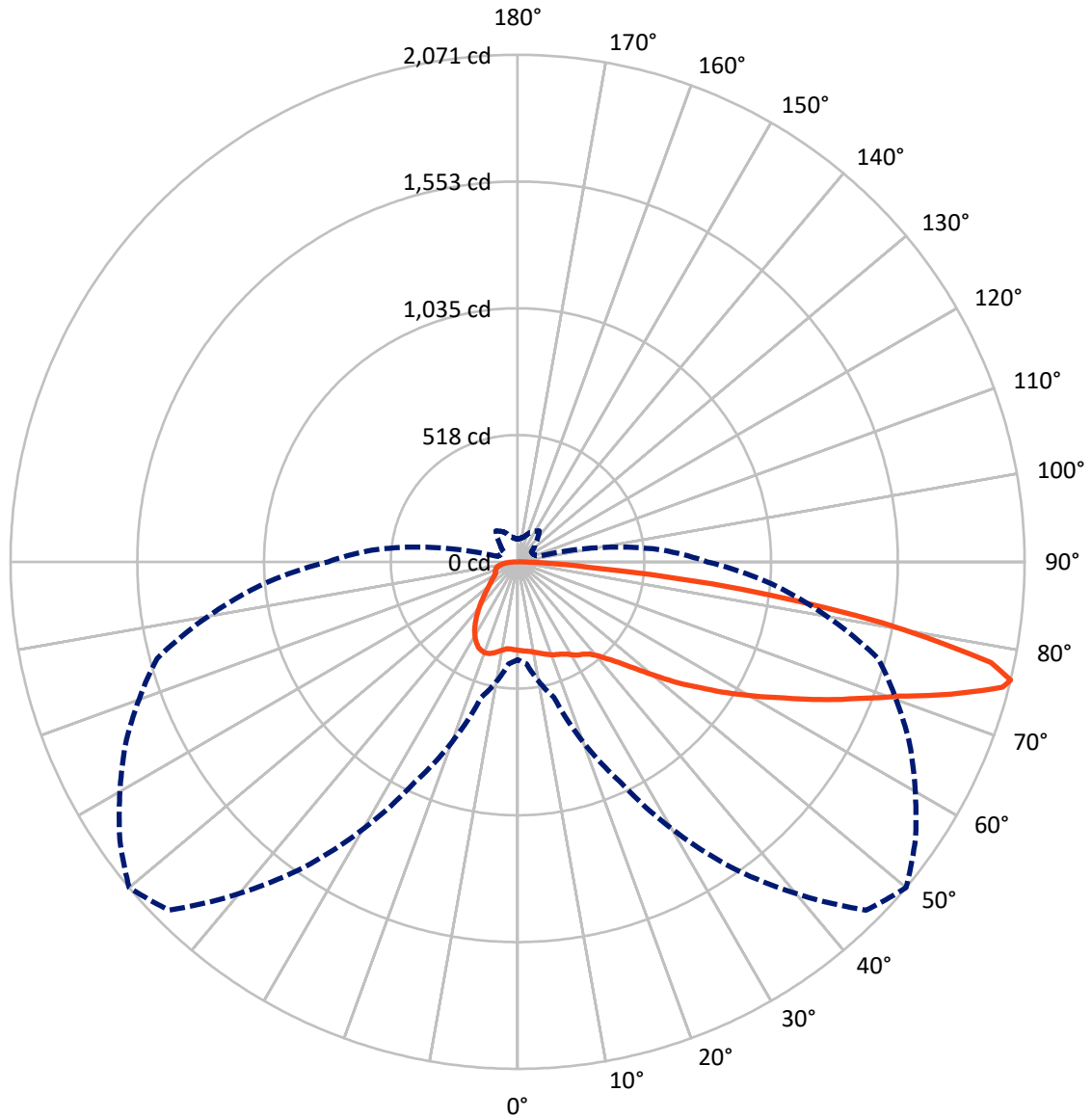
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.2	0.0	757.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2552.8	0.0	2552.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	3310.0	0.0	3310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.1
10°-20°	110.1	3.3
20°-30°	186.1	5.6
30°-40°	255.0	7.7
40°-50°	375.6	11.3
50°-60°	590.8	17.9
60°-70°	850.5	25.7
70°-80°	773.3	23.4
80°-90°	133.5	4.0
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°	3310.0	100.0
0°-180°	3310.0	100.0

Coefficient of Utilization

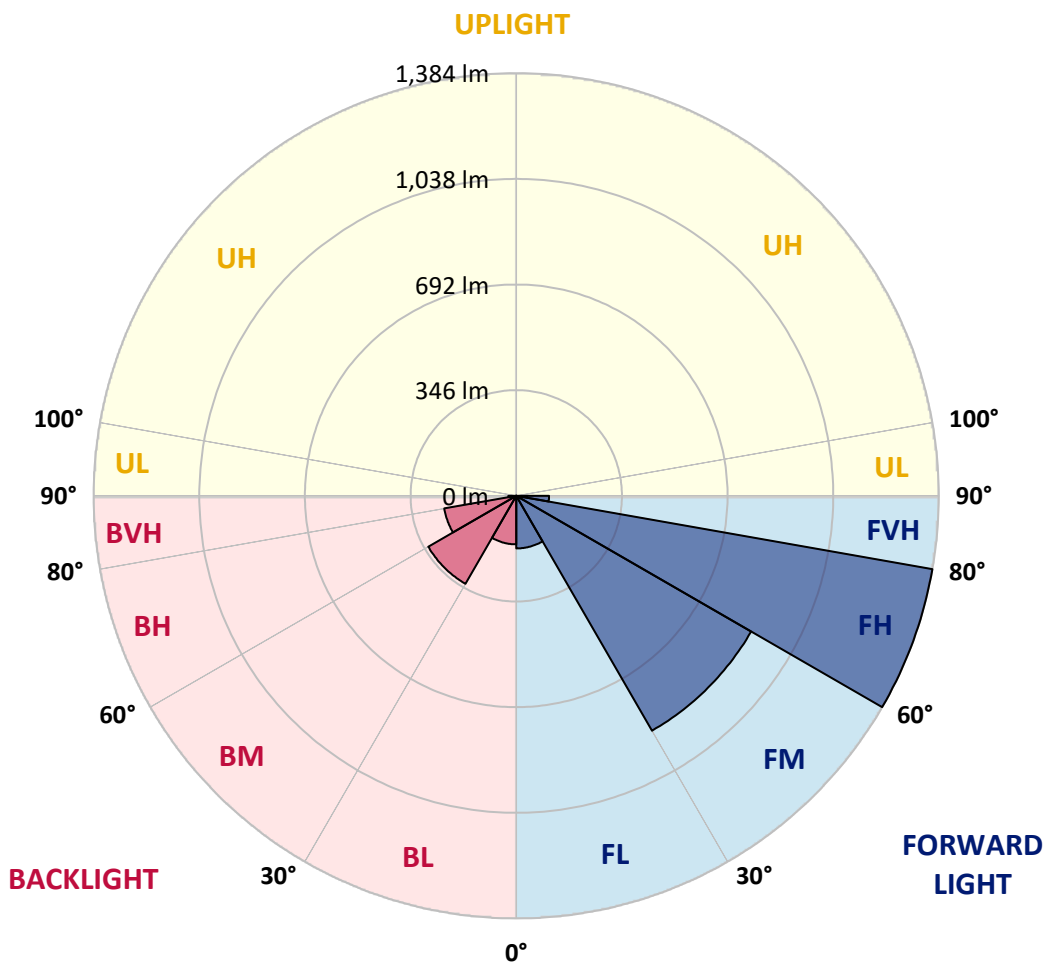


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.3	5.2			
FM (30°-60°)	888.7	26.8			
FH (60°-80°)	1384.4	41.8			G1/1800
FVH (80°-90°)	107.5	3.2			G2/225
BL (0°-30°)	159.0	4.8	B1/500		
BM (30°-60°)	332.8	10.1	B1/1000		
BH (60°-80°)	239.4	7.2	B1/500		G1/500
BVH (80°-90°)	26.0	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	368.9	368.9	369.7	368.1	368.1	364.0	364.0	363.2	361.6	360.8	359.2
5°	382.7	382.7	380.2	376.2	373.8	368.9	366.5	364.8	361.6	357.5	353.5
7.5°	397.3	395.6	394.0	387.5	382.7	373.8	369.7	367.3	360.8	355.1	352.7
10°	412.7	410.2	406.2	398.1	390.8	380.2	375.4	372.1	364.8	360.0	354.3
12.5°	421.6	421.6	416.7	407.0	397.3	384.3	381.9	377.8	370.5	364.0	358.4
15°	430.5	431.3	426.5	415.1	403.8	394.0	390.0	387.5	379.4	369.7	362.4
17.5°	439.4	438.6	433.7	420.8	408.6	399.7	397.3	394.0	385.9	377.0	369.7
20°	445.9	444.3	442.7	426.5	414.3	408.6	405.4	402.9	394.8	385.1	375.4
22.5°	447.5	449.2	447.5	428.1	418.3	411.9	411.0	408.6	402.1	393.2	383.5
25°	448.3	449.2	451.6	432.9	424.0	419.2	417.5	415.9	411.0	403.8	390.8
27.5°	452.4	453.2	453.2	436.2	431.3	428.1	426.5	426.5	424.0	415.1	402.1
30°	453.2	454.0	455.6	444.3	442.7	440.2	441.0	440.2	436.2	426.5	411.9
32.5°	458.9	459.7	463.7	449.2	450.8	453.2	454.0	453.2	445.1	437.0	424.8
35°	477.5	476.7	480.0	461.3	459.7	460.5	462.9	462.1	458.9	451.6	443.5
37.5°	537.5	537.5	528.6	489.7	477.5	475.9	477.5	481.6	482.4	475.9	469.4
40°	642.9	637.2	632.4	548.1	509.1	499.4	504.3	506.7	513.2	513.2	513.2
42.5°	751.6	752.4	750.8	638.9	565.9	541.6	542.4	548.1	561.8	564.3	571.6
45°	848.0	853.7	865.9	744.3	649.4	595.1	589.4	595.1	614.5	630.8	649.4
47.5°	923.4	917.0	943.7	854.5	745.1	668.1	653.5	655.1	681.8	707.8	737.0
50°	988.3	989.9	1002.1	967.2	865.9	750.8	731.3	728.1	766.2	793.7	843.2
52.5°	1061.3	1056.4	1074.2	1066.1	983.4	852.1	821.3	811.6	852.9	891.8	945.3
55°	1096.1	1101.0	1137.5	1157.7	1094.5	942.9	908.8	912.1	955.9	997.2	1071.8
57.5°	1157.7	1162.6	1204.8	1246.9	1193.4	1039.4	1009.4	1009.4	1058.8	1105.0	1220.2
60°	1242.1	1242.9	1285.8	1358.8	1280.2	1132.6	1113.2	1112.3	1165.9	1219.4	1395.3
62.5°	1279.4	1289.1	1353.1	1448.0	1393.7	1246.9	1224.2	1230.7	1278.5	1341.0	1590.7
65°	1229.1	1250.2	1383.9	1508.0	1495.0	1366.1	1357.2	1366.1	1395.3	1462.6	1797.4
67.5°	1062.9	1091.3	1327.2	1548.5	1576.1	1503.9	1491.0	1489.3	1508.0	1583.4	1928.0
70°	977.0	994.0	1177.2	1563.9	1641.0	1643.4	1643.4	1632.8	1630.4	1685.5	1940.1
72.5°	804.3	822.1	993.2	1478.0	1702.6	1829.9	1848.5	1809.6	1749.6	1738.2	1736.6
75°	573.2	586.2	733.7	1162.6	1623.9	2009.0	2046.3	1970.9	1803.9	1623.1	1266.4
76°	399.7	418.3	573.2	993.2	1525.0	2012.3	2070.6	1983.1	1767.4	1524.2	1043.4
77.5°	202.7	209.2	331.6	667.2	1276.1	1919.8	1976.6	1878.5	1608.5	1231.5	662.4
80°	77.0	79.5	118.4	243.2	700.5	1491.0	1512.9	1380.7	1064.5	526.2	238.4
82.5°	40.5	42.2	66.5	120.0	287.8	819.7	925.1	770.2	417.5	158.1	69.7
85°	20.3	21.9	38.9	73.0	142.7	256.2	296.7	280.5	138.6	60.0	25.9
87.5°	8.1	9.7	19.5	32.4	57.6	50.3	55.9	72.2	44.6	28.4	8.9
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°	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8	360.8
2.5°	359.2	358.4	359.2	358.4	359.2	359.2	360.0	358.4	358.4	360.0	357.5
5°	353.5	352.7	353.5	355.1	355.9	357.5	360.8	360.0	361.6	363.2	364.0
7.5°	351.1	350.2	352.7	353.5	355.9	359.2	364.0	367.3	368.9	372.1	370.5
10°	353.5	353.5	356.7	359.2	363.2	367.3	371.3	374.6	378.6	381.1	380.2
12.5°	357.5	356.7	362.4	365.6	371.3	375.4	378.6	380.2	383.5	386.7	385.9
15°	361.6	362.4	370.5	377.0	383.5	385.1	385.9	384.3	385.9	387.5	387.5
17.5°	369.7	370.5	379.4	386.7	392.4	390.8	386.7	382.7	382.7	383.5	384.3
20°	376.2	377.8	388.3	394.8	398.1	391.6	385.1	380.2	377.8	378.6	377.8
22.5°	383.5	386.7	397.3	400.5	395.6	387.5	379.4	372.9	372.9	373.8	373.8
25°	392.4	394.0	401.3	399.7	390.8	378.6	372.1	369.7	368.9	369.7	370.5
27.5°	400.5	401.3	405.4	394.0	377.0	364.0	361.6	362.4	363.2	364.0	364.8
30°	411.0	412.7	408.6	385.9	360.0	345.4	345.4	350.2	351.9	354.3	353.5
32.5°	424.0	425.6	413.5	375.4	338.1	323.5	324.3	331.6	336.5	338.1	338.9
35°	445.9	442.7	416.7	360.8	314.6	296.7	297.5	306.5	312.9	315.4	313.8
37.5°	472.7	471.9	421.6	342.1	285.4	269.2	270.0	274.0	280.5	281.3	282.1
40°	517.3	510.8	429.7	317.8	256.2	240.8	239.2	241.6	240.8	242.4	243.2
42.5°	581.3	564.3	440.2	290.2	230.3	214.0	212.4	208.4	203.5	198.6	196.2
45°	656.7	630.0	453.2	261.9	203.5	188.9	184.9	180.0	170.3	159.7	156.5
47.5°	754.0	702.9	467.8	233.5	178.4	167.0	163.8	156.5	145.1	133.0	130.5
50°	853.7	788.9	482.4	210.0	158.1	151.6	148.4	141.1	126.5	115.1	112.7
52.5°	969.7	874.0	497.8	188.9	140.3	140.3	137.8	126.5	112.7	102.2	100.5
55°	1103.4	961.5	522.1	168.6	127.3	130.5	127.3	115.9	103.0	95.7	94.9
57.5°	1263.1	1072.6	552.9	146.7	115.9	118.4	118.4	110.3	101.3	96.5	95.7
60°	1423.7	1185.3	572.4	130.5	107.0	109.5	114.3	110.3	104.6	102.2	101.3
62.5°	1577.7	1300.4	539.1	116.7	98.1	105.4	117.6	118.4	112.7	113.5	113.5
65°	1692.8	1388.0	436.2	104.6	92.4	107.8	127.3	128.1	118.4	115.9	115.1
67.5°	1732.6	1412.3	293.5	96.5	89.2	109.5	138.6	135.4	118.4	113.5	111.1
70°	1657.2	1323.1	190.5	89.2	84.3	107.8	147.6	139.4	117.6	110.3	107.0
72.5°	1389.6	1128.6	127.3	82.7	79.5	106.2	153.2	139.4	115.1	104.6	101.3
75°	964.8	771.0	94.9	74.6	72.2	103.8	154.9	137.0	109.5	98.1	95.7
76°	774.3	578.1	85.9	71.3	68.9	102.2	154.0	134.6	105.4	94.9	92.4
77.5°	488.9	332.4	72.2	65.7	64.0	98.9	150.8	128.9	99.7	89.2	86.7
80°	171.1	121.6	55.1	53.5	54.3	91.6	141.9	117.6	88.4	78.6	75.4
82.5°	68.1	55.9	41.3	41.3	43.0	78.6	128.1	103.8	77.0	64.9	60.0
85°	26.8	24.3	29.2	29.2	30.8	64.0	107.0	81.1	52.7	40.5	38.9
87.5°	8.1	11.4	13.0	13.8	14.6	32.4	60.8	35.7	23.5	17.0	13.8
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)