

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: P227850

Luminaire Tested: **ISS-AF-1000-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T4FT
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5851.3 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.6
Input Voltage (V): 120
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: 25 FT

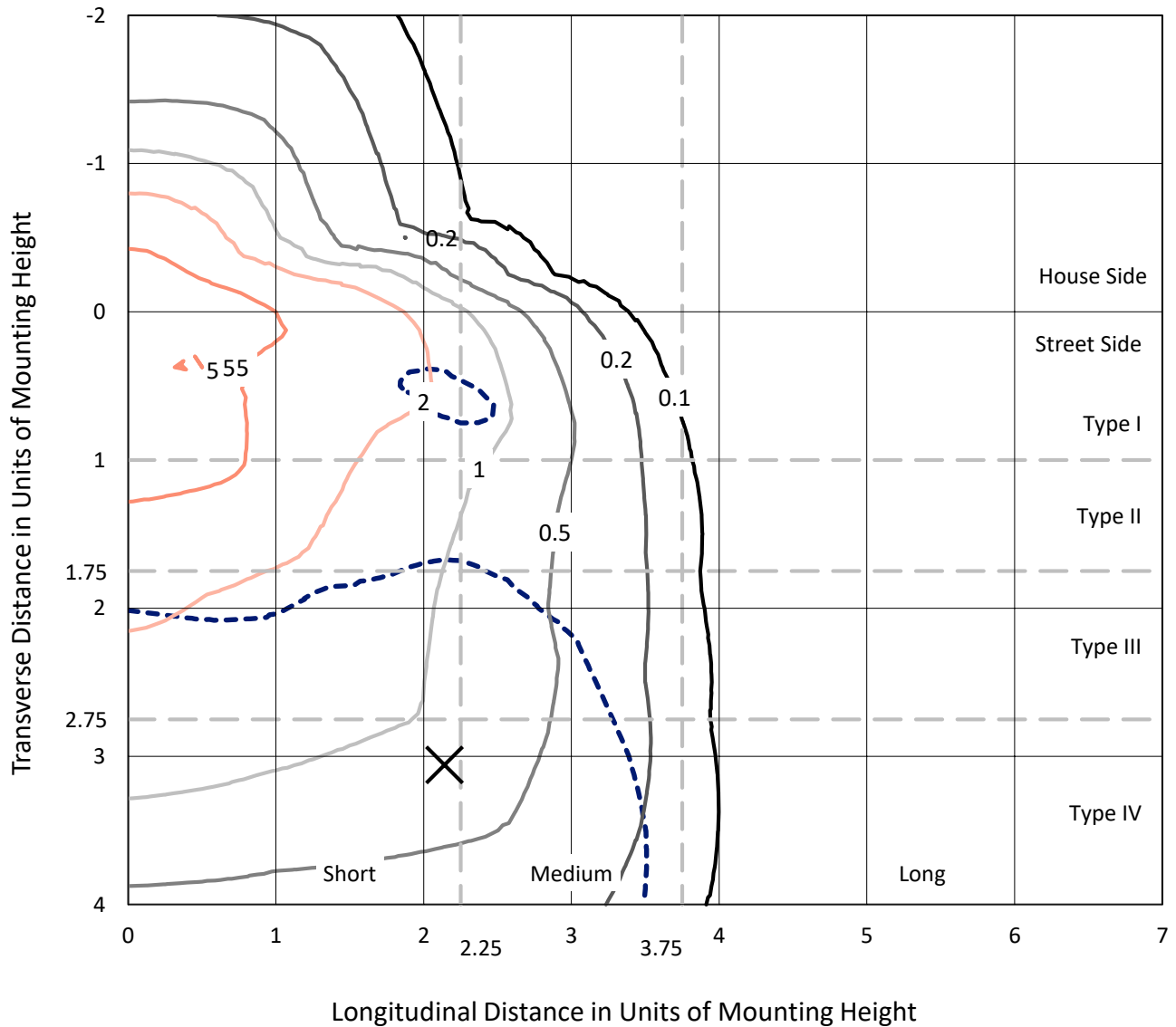


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

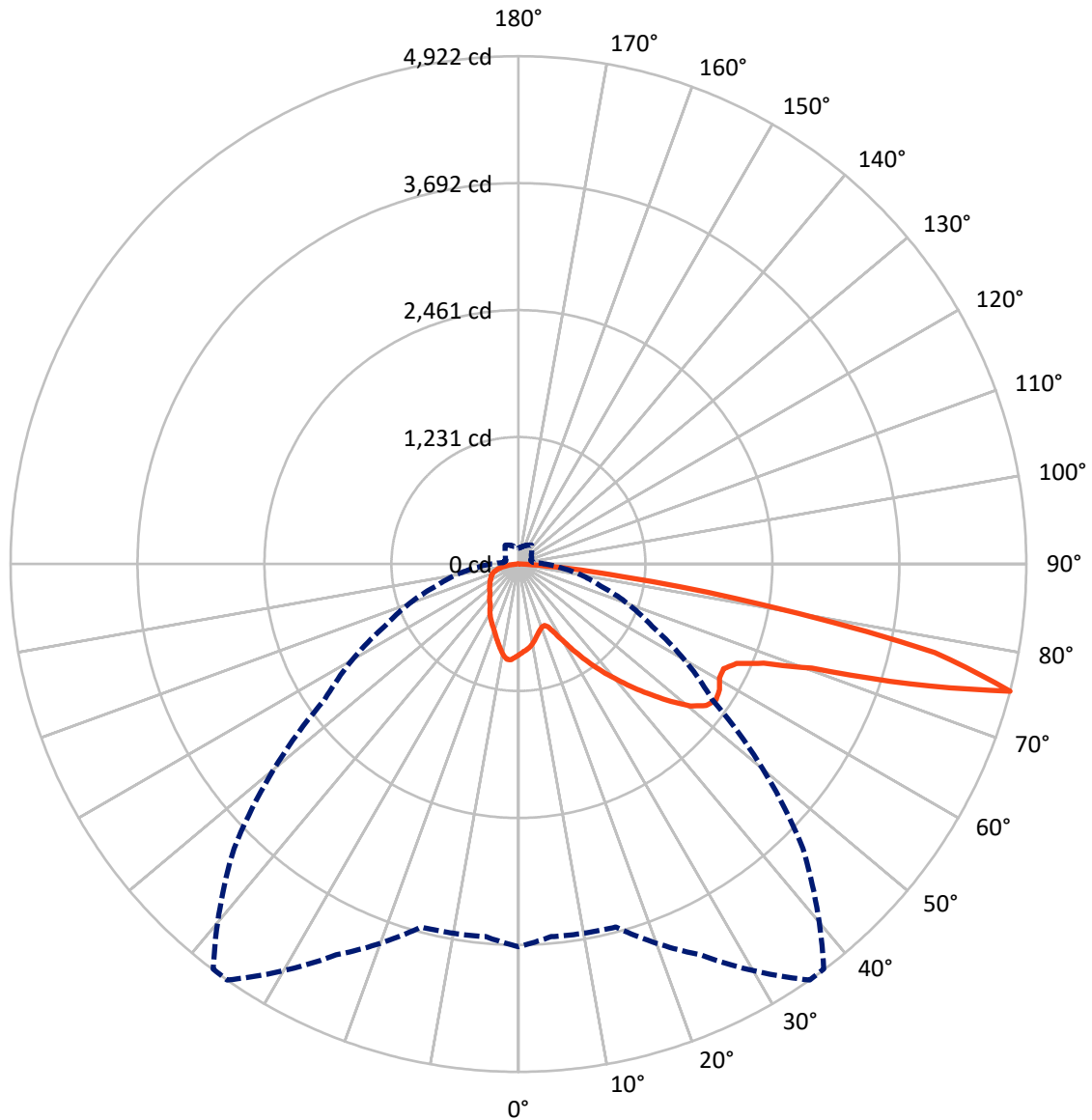


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.4	0.0	1174.4
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	4676.9	0.0	4676.9
	% Fixture	79.9	0.0	79.9
Total	Lumens	5851.3	0.0	5851.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	1.4
10°-20°	217.8	3.7
20°-30°	344.5	5.9
30°-40°	556.0	9.5
40°-50°	822.6	14.1
50°-60°	1057.7	18.1
60°-70°	1309.6	22.4
70°-80°	1319.7	22.6
80°-90°	140.9	2.4
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°	5851.3	100.0
0°-180°	5851.3	100.0

Coefficient of Utilization



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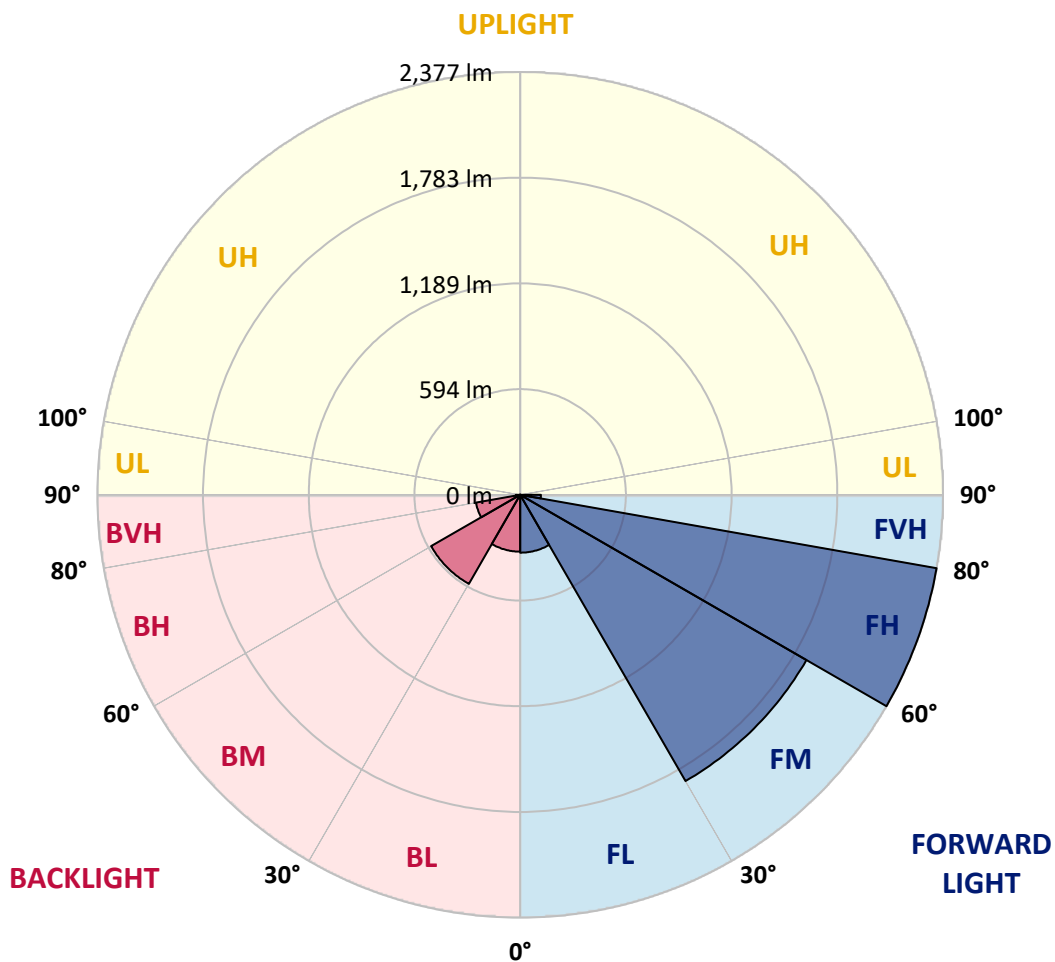
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.4	5.6			
FM	(30°-60°)	1858.0	31.8			
FH	(60°-80°)	2377.0	40.6			G2/5000
FVH	(80°-90°)	116.5	2.0			G2/225
BL	(0°-30°)	319.4	5.5	B1/500		
BM	(30°-60°)	578.3	9.9	B1/1000		
BH	(60°-80°)	252.3	4.3	B1/500		G1/500
BVH	(80°-90°)	24.4	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0
2.5°	853.7	851.7	849.7	849.7	853.7	853.7	855.6	857.5	859.5	865.3	873.2
5°	830.2	828.2	826.2	828.2	834.1	834.1	839.9	843.8	847.7	857.5	867.3
7.5°	798.9	798.9	797.0	804.8	810.7	808.6	816.5	820.4	830.2	839.9	855.6
10°	757.9	757.9	757.9	767.6	777.4	777.4	783.3	793.1	800.9	814.6	834.1
12.5°	722.7	720.8	720.8	728.6	740.3	742.3	752.1	765.7	775.5	793.1	814.6
15°	711.1	707.1	697.3	697.3	703.2	703.2	718.8	738.4	754.0	771.6	797.0
17.5°	713.0	707.1	681.7	673.9	673.9	675.9	691.5	713.0	732.5	754.0	787.2
20°	730.6	720.8	673.9	656.3	652.4	654.4	668.1	689.6	713.0	742.3	779.4
22.5°	806.7	791.2	703.2	664.1	646.6	646.6	654.4	677.8	707.1	746.1	793.1
25°	982.5	957.2	800.9	730.6	677.8	672.0	658.3	681.7	716.9	763.7	832.2
27.5°	1162.3	1136.8	922.0	845.8	763.7	746.1	695.4	701.2	740.3	802.8	890.7
30°	1312.7	1291.2	1074.3	986.4	877.1	857.5	779.4	742.3	781.3	857.5	978.7
32.5°	1324.4	1314.6	1238.4	1148.6	1015.8	988.4	884.9	826.2	845.8	931.7	1074.3
35°	1433.8	1426.0	1385.0	1298.9	1166.2	1134.9	1025.5	935.7	929.8	1013.7	1183.8
37.5°	1541.2	1531.5	1504.0	1445.5	1322.5	1297.0	1211.1	1066.5	1025.5	1109.5	1291.2
40°	1642.8	1629.0	1594.0	1560.7	1470.9	1470.9	1379.0	1191.5	1117.4	1193.5	1381.0
42.5°	1830.3	1787.3	1693.6	1668.1	1642.8	1642.8	1508.0	1277.5	1191.5	1285.3	1467.0
45°	2010.0	1969.0	1842.0	1791.2	1804.9	1797.1	1611.6	1326.4	1257.9	1371.3	1549.1
47.5°	2152.6	2115.5	1986.6	1951.4	1990.5	1959.3	1697.5	1365.4	1341.9	1463.0	1617.4
50°	2279.5	2191.7	2066.7	2113.5	2162.3	2109.6	1773.7	1423.9	1426.0	1560.7	1717.0
52.5°	2105.7	2095.9	2123.3	2232.7	2279.5	2220.9	1842.0	1498.2	1515.8	1685.7	1830.3
55°	1896.8	1894.7	2054.9	2267.9	2324.5	2269.8	1886.9	1588.0	1609.6	1840.1	1972.9
57.5°	1855.7	1836.2	1945.6	2193.6	2297.1	2258.1	1910.4	1672.1	1699.4	2035.4	2113.5
60°	1988.5	1951.4	1933.8	2113.5	2238.5	2219.0	1939.7	1771.6	1808.8	2258.1	2244.4
62.5°	2277.6	2226.9	2101.9	2119.3	2232.7	2217.0	2010.0	1888.9	1931.8	2480.8	2318.6
65°	2660.5	2623.4	2424.1	2281.5	2324.5	2303.0	2136.9	2037.3	2060.8	2641.0	2234.6
67.5°	3080.4	3029.7	2812.8	2617.5	2562.8	2521.8	2338.2	2213.2	2129.2	2617.5	2010.0
70°	3555.1	3500.4	3312.9	3111.7	3017.9	2973.0	2689.7	2365.5	2103.8	2359.6	1586.1
72.5°	4139.2	4064.9	3961.4	3982.9	3967.3	3842.2	3250.4	2416.3	1918.2	1756.1	947.4
75°	3709.4	3625.4	3643.0	4180.2	4922.4	4916.6	3898.9	2291.3	1429.9	828.2	410.2
77.5°	1330.2	1470.9	2170.2	3131.3	4127.4	4121.6	3017.9	1433.8	613.4	353.5	248.1
80°	334.0	339.9	539.1	1285.3	2410.5	2390.9	1711.1	541.0	255.8	214.8	169.9
82.5°	107.4	115.3	197.3	443.4	1031.3	1007.9	531.3	177.8	160.2	138.7	103.5
85°	35.2	35.2	70.3	152.3	339.9	326.2	107.4	64.4	87.9	72.3	46.9
87.5°	0.0	0.0	1.9	3.9	7.8	3.9	0.0	3.9	11.8	13.7	9.7
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°	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0	879.0
2.5°	879.0	877.1	884.9	890.7	892.7	898.6	904.4	908.3	906.3	904.4	904.4
5°	877.1	879.0	892.7	904.4	914.2	923.9	931.7	935.7	933.7	933.7	933.7
7.5°	865.3	873.2	888.7	908.3	922.0	927.8	929.8	923.9	920.0	914.2	914.2
10°	845.8	857.5	882.9	904.4	910.2	902.4	890.7	879.0	863.4	853.7	853.7
12.5°	830.2	843.8	875.1	892.7	884.9	865.3	839.9	820.4	804.8	793.1	791.2
15°	816.5	834.1	867.3	871.2	853.7	820.4	787.2	765.7	748.1	740.3	740.3
17.5°	806.7	830.2	859.5	847.7	812.6	769.7	738.4	720.8	707.1	699.3	697.3
20°	808.6	838.0	851.7	818.5	767.6	722.7	693.5	683.6	673.9	670.0	670.0
22.5°	830.2	857.5	849.7	793.1	726.6	675.9	656.3	654.4	650.5	646.6	644.6
25°	877.1	896.6	855.6	767.6	683.6	632.9	623.1	629.0	627.1	623.1	623.1
27.5°	941.5	945.4	865.3	742.3	636.8	591.9	591.9	601.6	597.7	591.9	595.8
30°	1019.7	998.2	869.2	701.2	582.1	552.8	558.6	564.6	560.6	552.8	552.8
32.5°	1103.7	1052.8	869.2	648.6	529.4	517.6	519.6	521.5	513.7	504.0	504.0
35°	1185.7	1105.6	859.5	586.0	488.4	482.5	480.5	488.4	482.5	468.8	468.8
37.5°	1263.9	1146.6	834.1	521.5	457.1	455.1	460.9	457.1	449.3	429.7	425.9
40°	1318.5	1173.9	783.3	468.8	431.7	443.4	439.5	418.0	406.3	392.6	392.6
42.5°	1367.4	1187.6	720.8	427.8	414.1	429.7	414.1	386.8	371.1	369.2	371.1
45°	1412.3	1199.4	660.2	394.6	392.6	414.1	394.6	365.3	347.7	347.7	349.6
47.5°	1455.2	1211.1	599.7	363.4	367.2	390.7	378.9	349.6	332.0	320.4	320.4
50°	1523.6	1238.4	511.8	330.1	337.9	371.1	367.2	334.0	314.5	296.9	293.0
52.5°	1605.6	1285.3	416.0	294.9	316.4	353.5	353.5	320.4	298.9	275.4	271.5
55°	1715.1	1336.1	334.0	269.5	294.9	334.0	339.9	314.5	283.3	261.8	257.9
57.5°	1824.4	1353.7	269.5	244.2	267.6	314.5	330.1	302.8	265.7	250.0	248.1
60°	1900.6	1297.0	226.6	222.7	248.1	291.0	316.4	289.1	253.9	238.3	238.3
62.5°	1888.9	1125.1	203.2	209.0	232.4	273.4	304.7	277.4	246.1	236.4	234.4
65°	1722.9	849.7	183.6	197.3	218.8	255.8	293.0	271.5	242.2	232.4	228.5
67.5°	1451.4	564.6	169.9	185.6	205.1	242.2	283.3	263.7	230.5	224.6	220.8
70°	1050.9	330.1	156.3	173.8	191.4	226.6	269.5	248.1	216.9	212.9	203.2
72.5°	568.5	207.0	140.7	158.3	173.8	207.0	248.1	228.5	199.3	183.6	177.8
75°	259.8	150.4	125.0	140.7	152.3	181.7	222.7	201.2	177.8	158.3	154.4
77.5°	173.8	113.3	105.5	121.1	126.9	152.3	197.3	160.2	138.7	125.0	121.1
80°	119.2	84.0	85.9	99.6	97.7	121.1	148.4	128.9	109.4	113.3	103.5
82.5°	76.2	58.6	66.4	70.3	68.3	91.8	115.3	97.7	82.0	68.3	58.6
85°	33.2	31.3	39.1	41.0	41.0	50.7	60.6	48.8	37.1	27.3	27.3
87.5°	1.9	3.9	3.9	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
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)