

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: P594561

Luminaire Tested: **ISS-PA1B-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-740-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5369 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

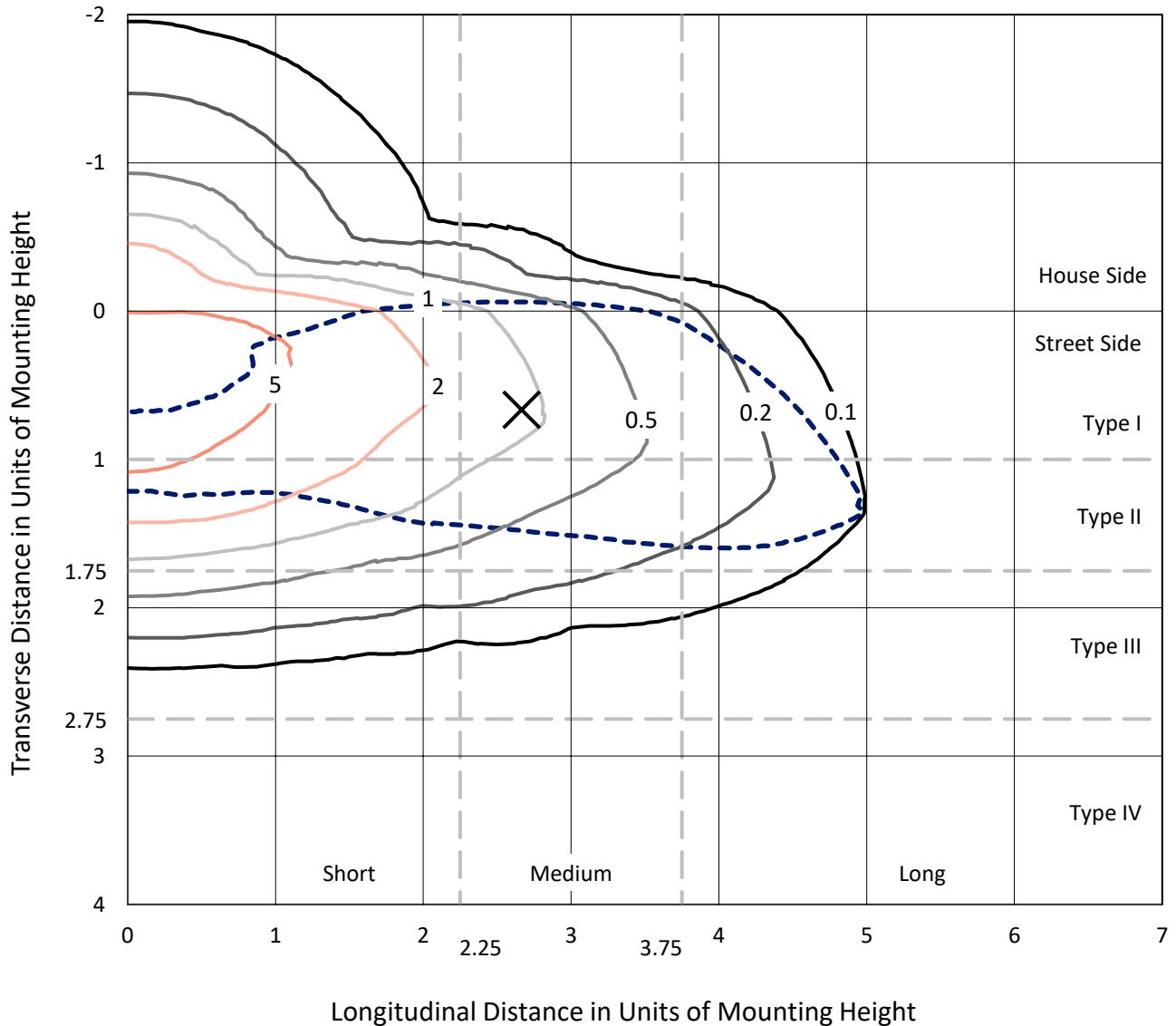
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

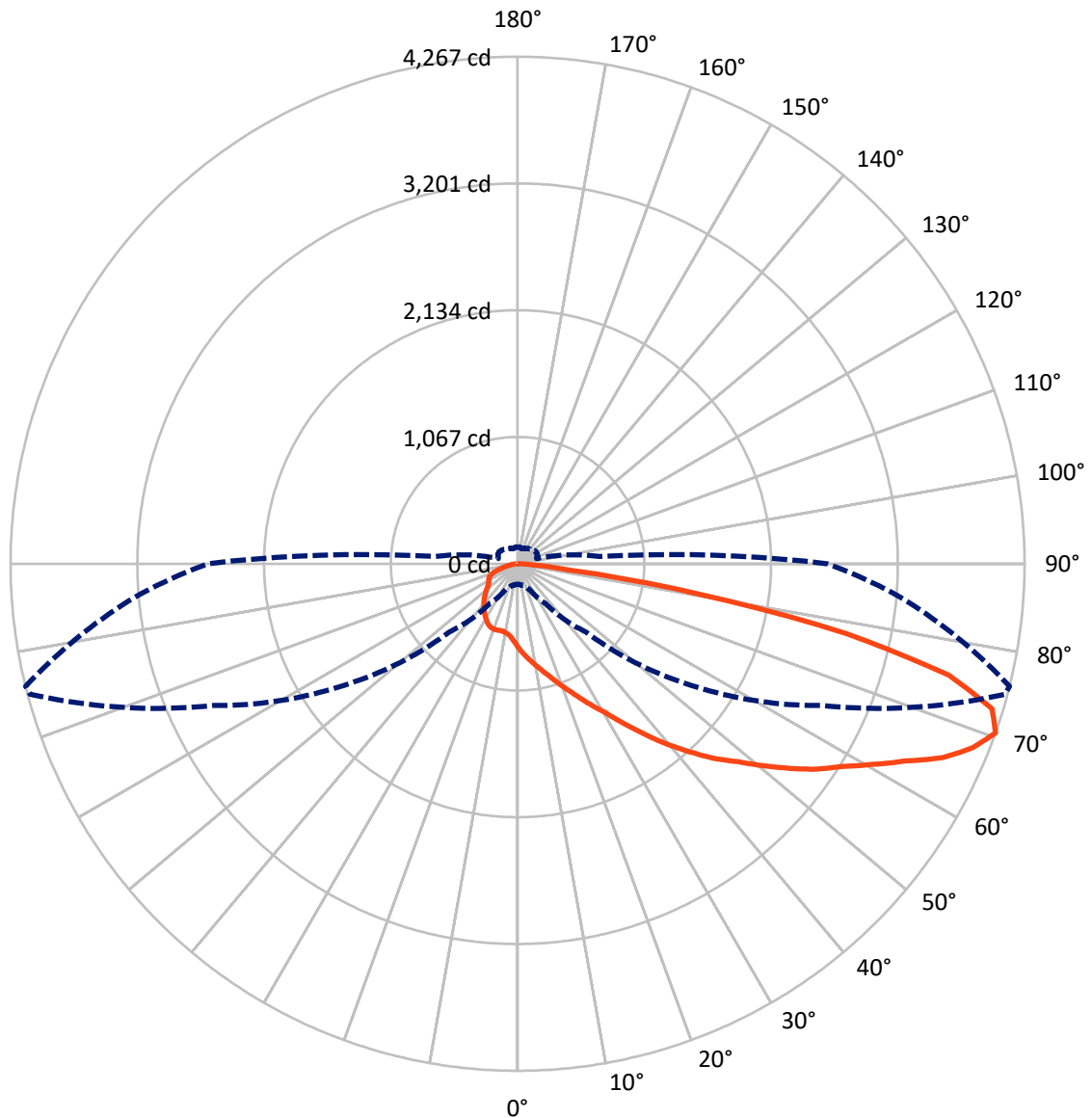
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.1	0.0	861.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	4507.9	0.0	4507.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	5369.0	0.0	5369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.3
10°-20°	226.5	4.2
20°-30°	417.5	7.8
30°-40°	699.4	13.0
40°-50°	993.8	18.5
50°-60°	1147.5	21.4
60°-70°	1054.8	19.6
70°-80°	665.1	12.4
80°-90°	95.7	1.8
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°	5369.0	100.0
0°-180°	5369.0	100.0

Coefficient of Utilization

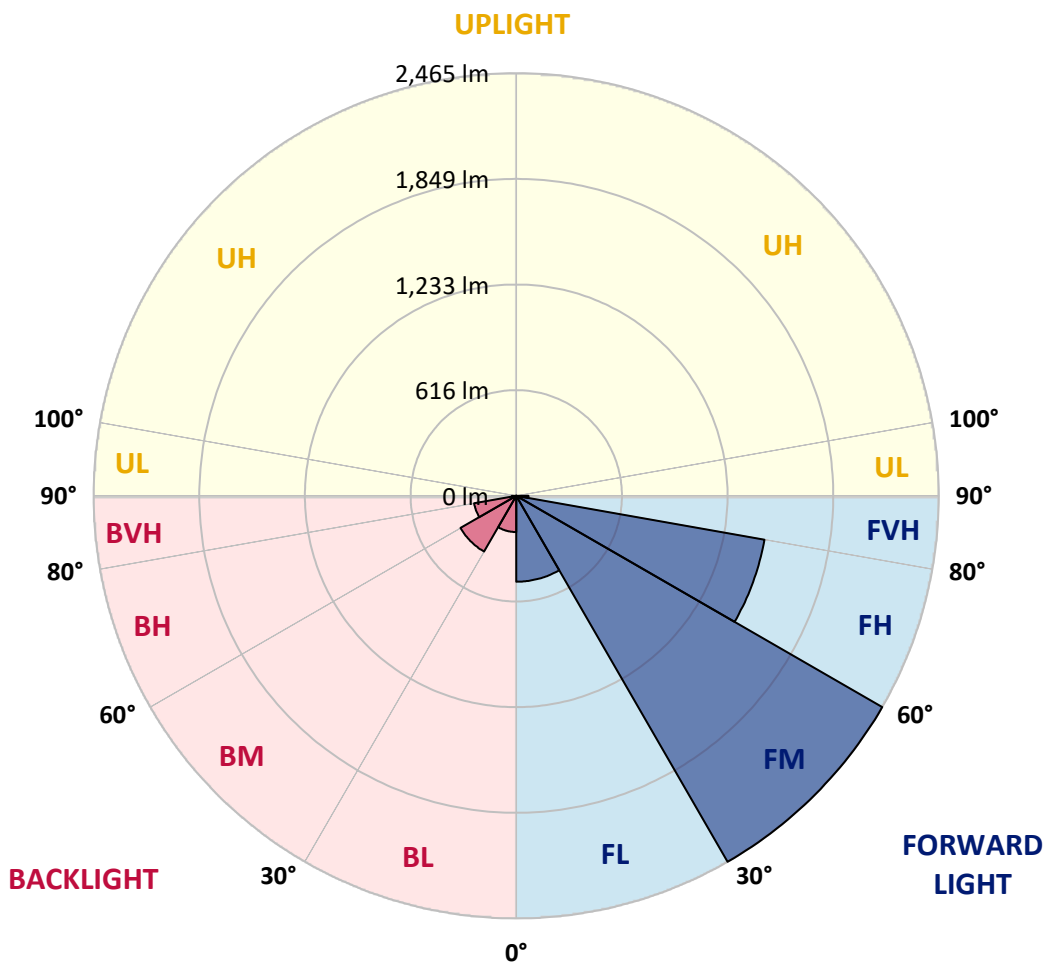


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	501.3	9.3			
FM (30°-60°)	2465.3	45.9			
FH (60°-80°)	1470.4	27.4			G1/1800
FVH (80°-90°)	70.9	1.3			G1/100
BL (0°-30°)	211.4	3.9	B1/500		
BM (30°-60°)	375.4	7.0	B1/1000		
BH (60°-80°)	249.6	4.6	B1/500		G1/500
BVH (80°-90°)	24.7	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	847.8	846.5	842.6	836.2	831.0	815.5	794.8	776.7	749.6	747.0	719.8
5°	924.0	918.9	918.9	912.4	905.9	889.1	863.3	831.0	792.2	789.6	737.9
7.5°	960.2	961.5	958.9	953.8	955.0	940.8	917.6	885.3	832.3	829.7	762.5
10°	1011.9	1010.6	1005.5	1001.6	1000.3	987.4	966.7	937.0	881.4	876.2	790.9
12.5°	1062.3	1058.4	1059.7	1058.4	1055.9	1042.9	1023.5	993.8	925.3	922.7	825.8
15°	1090.7	1089.5	1098.5	1101.1	1111.4	1099.8	1083.0	1049.4	987.4	977.0	867.2
17.5°	1108.8	1107.5	1116.6	1137.3	1156.7	1156.7	1151.5	1115.3	1046.8	1039.1	913.7
20°	1139.9	1145.0	1160.5	1177.3	1205.8	1210.9	1209.6	1194.1	1115.3	1107.5	965.4
22.5°	1201.9	1199.3	1212.2	1238.1	1263.9	1271.7	1273.0	1273.0	1194.1	1179.9	1018.4
25°	1335.0	1328.5	1318.2	1315.6	1346.6	1345.3	1341.5	1350.5	1276.8	1266.5	1079.1
27.5°	1588.3	1574.1	1534.0	1453.9	1435.8	1442.3	1422.9	1424.2	1371.2	1358.3	1130.8
30°	1828.7	1822.2	1784.7	1687.8	1585.7	1549.5	1515.9	1501.7	1475.9	1453.9	1186.4
32.5°	2045.8	2047.1	2001.9	1895.9	1791.2	1677.5	1619.3	1589.6	1599.9	1580.5	1262.6
35°	2193.1	2181.5	2153.1	2082.0	1968.3	1859.7	1748.6	1682.6	1738.2	1716.2	1338.9
37.5°	2279.7	2270.7	2247.4	2197.0	2140.1	2035.5	1894.6	1793.8	1902.3	1870.0	1435.8
40°	2323.7	2310.7	2287.5	2266.8	2239.6	2182.8	2058.7	1920.4	2052.3	2023.8	1531.4
42.5°	2328.8	2319.8	2306.9	2296.5	2305.6	2297.8	2219.0	2067.8	2209.9	2178.9	1641.3
45°	2324.9	2331.4	2315.9	2297.8	2315.9	2381.8	2381.8	2215.1	2366.3	2343.0	1746.0
47.5°	2327.5	2321.1	2315.9	2310.7	2313.3	2403.8	2494.2	2353.4	2516.2	2489.1	1868.7
50°	2220.3	2229.3	2273.3	2292.6	2304.3	2408.9	2584.7	2503.3	2702.3	2668.7	2005.7
52.5°	1879.1	1884.3	2084.6	2229.3	2275.8	2388.3	2648.0	2670.0	2885.8	2860.0	2153.1
55°	1447.4	1474.6	1664.6	2018.7	2211.2	2353.4	2667.4	2778.6	3073.2	3052.5	2301.7
57.5°	1191.6	1195.4	1305.3	1621.9	2007.0	2321.1	2686.8	2878.1	3241.2	3218.0	2456.8
60°	988.7	979.6	1046.8	1251.0	1667.1	2191.8	2690.7	2956.9	3436.4	3428.6	2617.0
62.5°	726.3	736.6	801.3	974.4	1304.0	1929.5	2671.3	3024.1	3669.0	3658.7	2795.4
65°	445.9	458.8	537.6	696.6	987.4	1531.4	2544.6	3059.0	3913.2	3936.5	2987.9
67.5°	236.5	245.5	292.1	421.3	677.2	1167.0	2239.6	3015.1	4120.0	4130.4	3172.7
70°	173.2	174.5	190.0	237.8	408.4	811.6	1783.4	2823.8	4246.7	4267.4	3233.5
72.5°	151.2	152.5	159.0	170.6	222.3	495.0	1278.1	2490.4	4193.7	4175.6	3131.4
75°	137.0	137.0	142.2	146.0	162.8	274.0	783.2	2038.0	3789.2	3749.1	2670.0
77.5°	117.6	117.6	122.8	127.9	140.9	177.1	409.7	1510.8	2897.5	2829.0	1826.1
80°	94.3	94.3	100.8	107.3	124.1	133.1	200.3	1010.6	1656.8	1556.0	831.0
82.5°	64.6	69.8	81.4	89.2	103.4	94.3	117.6	436.8	522.1	452.3	187.4
85°	38.8	41.4	58.2	67.2	77.5	50.4	72.4	168.0	156.4	137.0	42.6
87.5°	3.9	6.5	23.3	27.1	27.1	14.2	31.0	40.1	45.2	46.5	10.3
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°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	704.3	688.8	659.1	632.0	604.8	586.7	568.6	562.2	553.1	546.7	551.8
5°	710.8	678.5	621.6	573.8	541.5	516.9	505.3	498.8	493.7	492.4	491.1
7.5°	718.5	670.7	594.5	541.5	510.5	498.8	496.3	496.3	496.3	497.6	498.8
10°	735.3	673.3	580.3	523.4	506.6	504.0	505.3	510.5	510.5	511.8	511.8
12.5°	754.7	679.8	569.9	520.8	510.5	511.8	513.1	515.6	515.6	519.5	518.2
15°	783.2	692.7	568.6	523.4	514.4	511.8	511.8	510.5	510.5	510.5	513.1
17.5°	819.4	710.8	569.9	523.4	510.5	505.3	501.4	497.6	492.4	495.0	492.4
20°	855.5	732.8	569.9	516.9	500.1	487.2	475.6	469.1	462.7	461.4	462.7
22.5°	900.8	758.6	563.5	502.7	478.2	460.1	443.3	434.2	423.9	420.0	417.4
25°	939.5	779.3	550.5	482.0	453.6	427.8	405.8	390.3	377.4	374.8	374.8
27.5°	979.6	797.4	531.2	456.2	418.7	390.3	365.7	346.4	333.4	332.1	330.8
30°	1017.1	812.9	505.3	427.8	387.7	354.1	325.7	308.9	297.2	290.8	286.9
32.5°	1066.2	833.6	480.8	399.3	351.5	317.9	292.1	277.9	262.3	252.0	248.1
35°	1128.2	858.1	453.6	368.3	319.2	285.6	270.1	249.4	230.0	218.4	214.5
37.5°	1198.0	893.0	425.2	336.0	286.9	262.3	253.3	221.0	200.3	196.4	195.1
40°	1284.6	926.6	392.9	302.4	255.9	249.4	233.9	200.3	190.0	188.7	187.4
42.5°	1371.2	962.8	361.9	268.8	231.3	233.9	211.9	195.1	186.1	183.5	182.2
45°	1472.0	999.0	330.8	239.1	211.9	211.9	200.3	190.0	182.2	179.6	179.6
47.5°	1578.0	1035.2	297.2	213.2	197.7	190.0	191.3	183.5	178.3	175.8	174.5
50°	1711.1	1070.1	266.2	195.1	188.7	178.3	182.2	177.1	174.5	171.9	170.6
52.5°	1836.4	1085.6	237.8	184.8	183.5	173.2	174.5	171.9	170.6	166.7	165.4
55°	1959.2	1081.7	215.8	179.6	177.1	171.9	169.3	168.0	166.7	162.8	161.5
57.5°	2096.2	1076.5	201.6	178.3	173.2	168.0	168.0	164.1	159.0	159.0	159.0
60°	2238.4	1059.7	195.1	178.3	171.9	168.0	165.4	161.5	156.4	157.7	156.4
62.5°	2398.6	1027.4	191.3	182.2	173.2	166.7	164.1	159.0	152.5	153.8	152.5
65°	2539.5	961.5	188.7	186.1	175.8	168.0	161.5	155.1	147.3	148.6	147.3
67.5°	2635.1	850.4	180.9	188.7	179.6	166.7	159.0	149.9	139.6	144.7	143.5
70°	2608.0	691.4	166.7	183.5	183.5	168.0	155.1	143.5	131.8	142.2	138.3
72.5°	2397.3	519.5	139.6	165.4	180.9	168.0	147.3	133.1	122.8	129.2	121.5
75°	1968.3	352.8	111.1	131.8	169.3	169.3	140.9	122.8	109.9	106.0	103.4
77.5°	1227.7	219.7	86.6	96.9	142.2	168.0	134.4	109.9	91.8	89.2	86.6
80°	485.9	117.6	68.5	69.8	104.7	153.8	125.4	93.0	73.7	71.1	65.9
82.5°	111.1	59.4	47.8	46.5	64.6	125.4	113.7	73.7	56.9	56.9	47.8
85°	33.6	31.0	31.0	29.7	32.3	64.6	87.9	50.4	38.8	27.1	23.3
87.5°	9.0	12.9	11.6	10.3	10.3	9.0	28.4	12.9	7.8	3.9	2.6
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)