

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: P594696

Luminaire Tested: **ISS-PA1D-727-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594696
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-PA1D-727-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7303 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

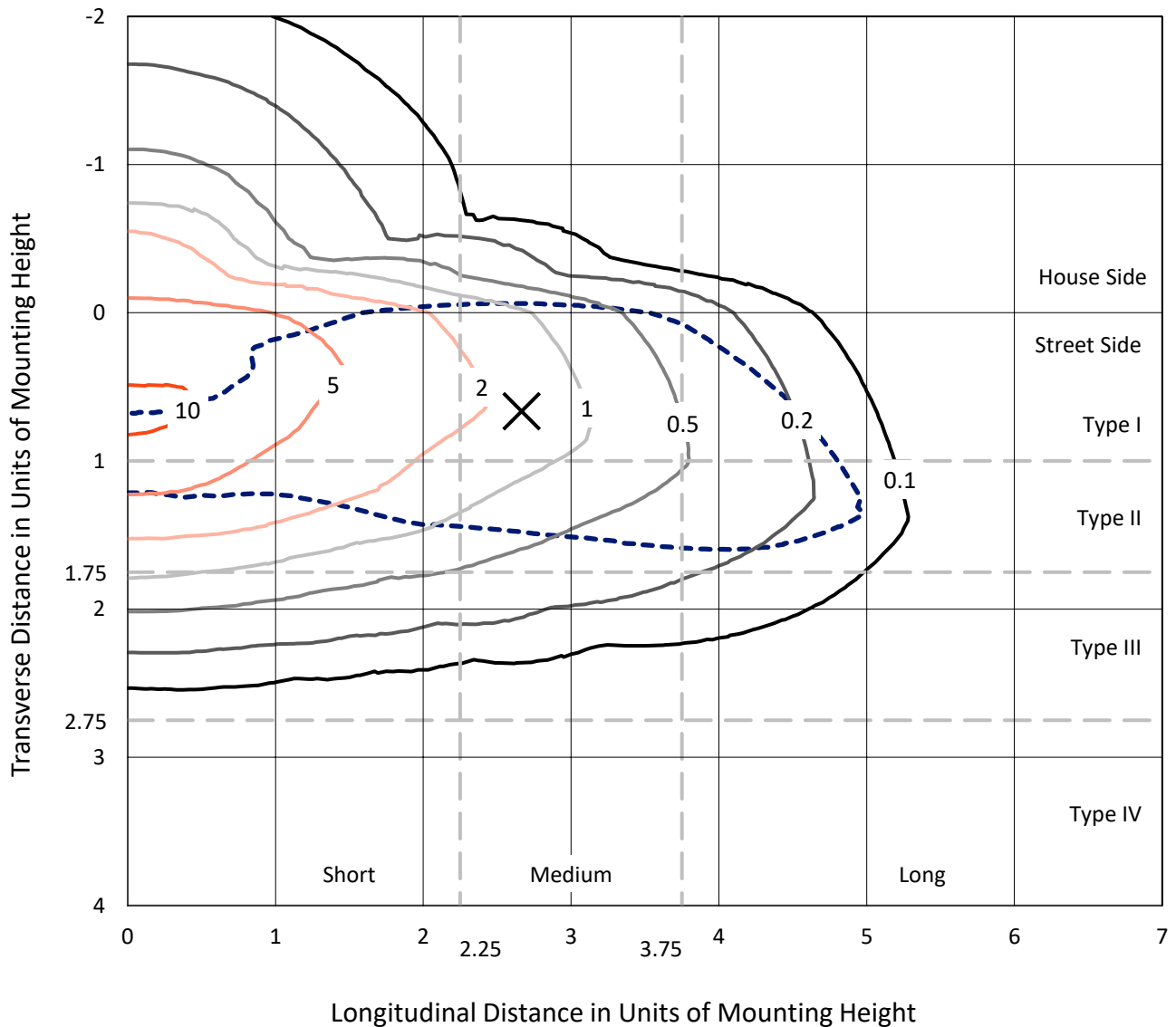




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Iso-Footcandle Lines of Horizontal Illumination

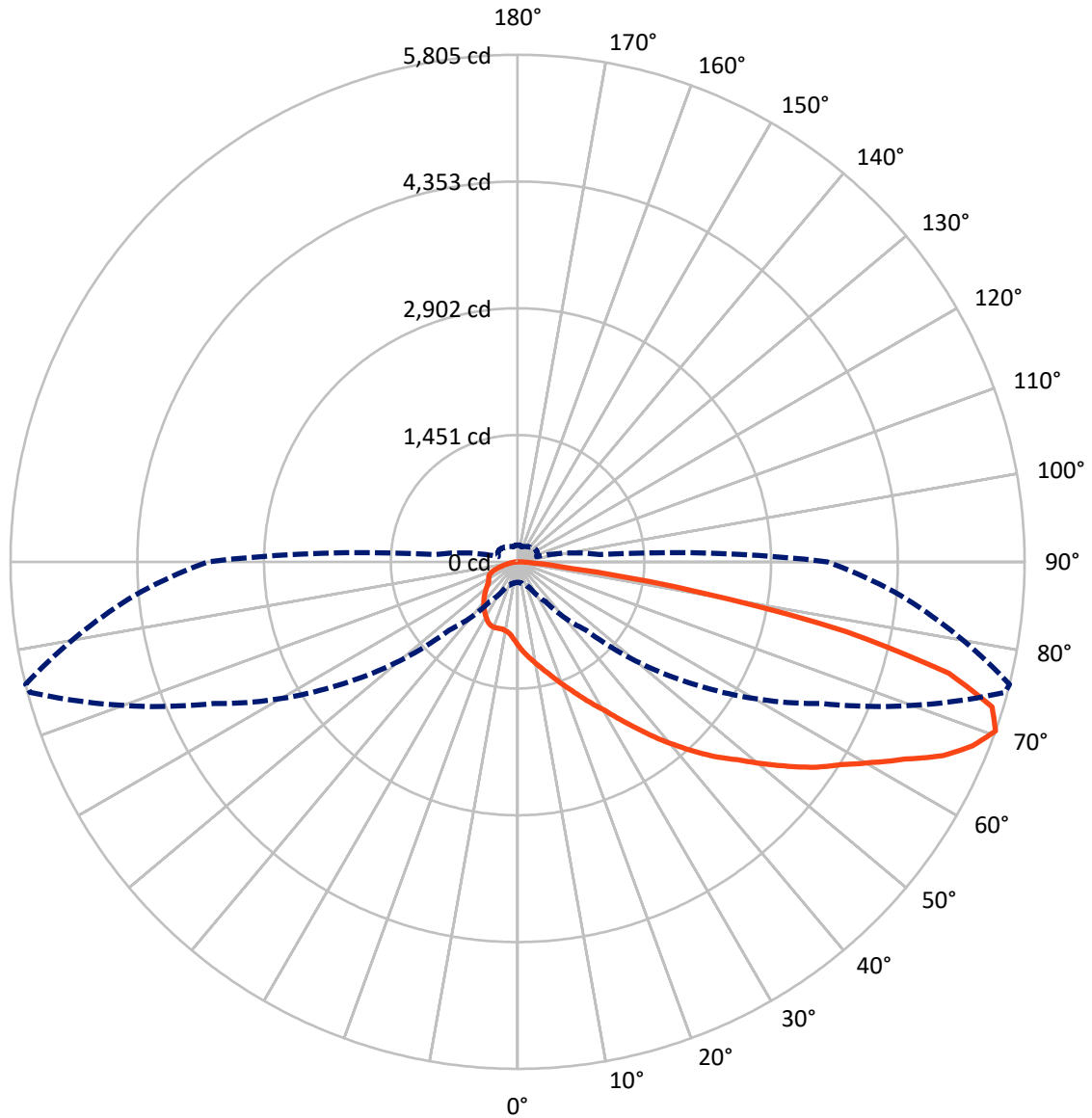
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 11.5 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	1171.3	0.0	1171.3
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6131.7	0.0	6131.7
	% Fixture	84.0	0.0	84.0
Total	Lumens	7303.0	0.0	7303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	1.3
10°-20°	308.1	4.2
20°-30°	567.8	7.8
30°-40°	951.4	13.0
40°-50°	1351.8	18.5
50°-60°	1560.8	21.4
60°-70°	1434.8	19.6
70°-80°	904.7	12.4
80°-90°	130.1	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°	7303.0	100.0
0°-180°	7303.0	100.0

Coefficient of Utilization

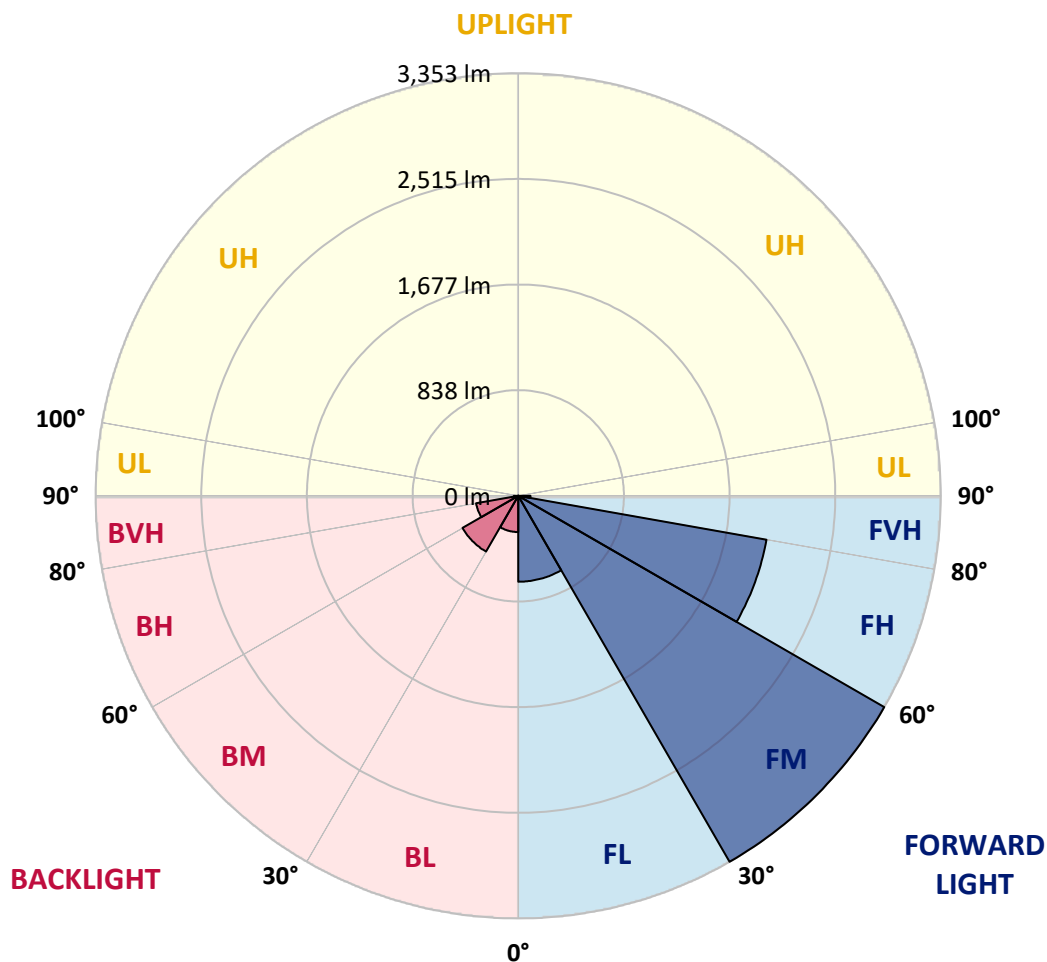


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.8	9.3			
FM (30°-60°)	3353.4	45.9			
FH (60°-80°)	2000.0	27.4			G2/5000
FVH (80°-90°)	96.5	1.3			G1/100
BL (0°-30°)	287.5	3.9	B1/500		
BM (30°-60°)	510.7	7.0	B1/1000		
BH (60°-80°)	339.5	4.6	B1/500		G1/500
BVH (80°-90°)	33.7	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0
2.5°	1153.2	1151.4	1146.1	1137.3	1130.3	1109.2	1081.1	1056.5	1019.6	1016.1	979.1
5°	1256.9	1249.9	1249.9	1241.1	1232.3	1209.4	1174.3	1130.3	1077.6	1074.1	1003.7
7.5°	1306.1	1307.9	1304.3	1297.3	1299.1	1279.7	1248.1	1204.1	1132.1	1128.6	1037.1
10°	1376.4	1374.7	1367.6	1362.4	1360.6	1343.0	1314.9	1274.5	1198.9	1191.8	1075.8
12.5°	1445.0	1439.7	1441.5	1439.7	1436.2	1418.6	1392.2	1351.8	1258.6	1255.1	1123.3
15°	1483.7	1481.9	1494.2	1497.7	1511.8	1496.0	1473.1	1427.4	1343.0	1329.0	1179.5
17.5°	1508.3	1506.5	1518.8	1546.9	1573.3	1573.3	1566.3	1517.1	1423.9	1413.3	1242.8
20°	1550.5	1557.5	1578.6	1601.4	1640.1	1647.1	1645.4	1624.3	1517.1	1506.5	1313.1
22.5°	1634.8	1631.3	1648.9	1684.0	1719.2	1729.8	1731.5	1731.5	1624.3	1604.9	1385.2
25°	1815.9	1807.1	1793.0	1789.5	1831.7	1830.0	1824.7	1837.0	1736.8	1722.7	1467.8
27.5°	2160.4	2141.1	2086.6	1977.6	1953.0	1961.8	1935.4	1937.2	1865.1	1847.5	1538.1
30°	2487.4	2478.6	2427.6	2295.8	2156.9	2107.7	2062.0	2042.7	2007.5	1977.6	1613.7
32.5°	2782.7	2784.5	2723.0	2578.8	2436.4	2281.7	2202.6	2162.2	2176.3	2149.9	1717.4
35°	2983.1	2967.3	2928.6	2831.9	2677.3	2529.6	2378.4	2288.8	2364.3	2334.5	1821.2
37.5°	3100.9	3088.6	3057.0	2988.4	2911.0	2768.7	2577.1	2439.9	2587.6	2543.7	1953.0
40°	3160.7	3143.1	3111.4	3083.3	3046.4	2969.1	2800.3	2612.2	2791.5	2752.8	2083.1
42.5°	3167.7	3155.4	3137.8	3123.8	3136.1	3125.5	3018.3	2812.6	3006.0	2963.8	2232.5
45°	3162.4	3171.2	3150.1	3125.5	3150.1	3239.8	3239.8	3013.0	3218.7	3187.0	2374.9
47.5°	3165.9	3157.2	3150.1	3143.1	3146.6	3269.7	3392.7	3201.1	3422.6	3385.7	2541.9
50°	3020.0	3032.3	3092.1	3118.5	3134.3	3276.7	3515.8	3405.0	3675.7	3630.0	2728.2
52.5°	2556.0	2563.0	2835.5	3032.3	3095.6	3248.6	3601.9	3631.8	3925.3	3890.2	2928.6
55°	1968.8	2005.7	2264.1	2745.8	3007.7	3201.1	3628.3	3779.4	4180.2	4152.1	3130.8
57.5°	1620.8	1626.0	1775.5	2206.1	2730.0	3157.2	3654.6	3914.8	4408.8	4377.1	3341.7
60°	1344.8	1332.5	1423.9	1701.6	2267.7	2981.4	3659.9	4022.0	4674.2	4663.7	3559.7
62.5°	987.9	1002.0	1089.9	1325.4	1773.7	2624.5	3633.5	4113.4	4990.6	4976.6	3802.3
65°	606.5	624.0	731.3	947.5	1343.0	2083.1	3461.3	4160.9	5322.9	5354.5	4064.2
67.5°	321.7	334.0	397.3	573.1	921.1	1587.4	3046.4	4101.1	5604.1	5618.2	4315.6
70°	235.6	237.3	258.4	323.4	555.5	1103.9	2425.9	3841.0	5776.4	5804.5	4398.2
72.5°	205.7	207.4	216.2	232.0	302.4	673.3	1738.5	3387.4	5704.3	5679.7	4259.3
75°	186.3	186.3	193.4	198.6	221.5	372.7	1065.3	2772.2	5154.1	5099.6	3631.8
77.5°	160.0	160.0	167.0	174.0	191.6	240.8	557.2	2055.0	3941.2	3848.0	2483.9
80°	128.3	128.3	137.1	145.9	168.8	181.1	272.5	1374.7	2253.6	2116.5	1130.3
82.5°	87.9	94.9	110.7	121.3	140.6	128.3	160.0	594.2	710.2	615.3	254.9
85°	52.7	56.3	79.1	91.4	105.5	68.6	98.4	228.5	212.7	186.3	58.0
87.5°	5.3	8.8	31.6	36.9	36.9	19.3	42.2	54.5	61.5	63.3	14.1
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°	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0
2.5°	958.0	937.0	896.5	859.6	822.7	798.1	773.5	764.7	752.4	743.6	750.6
5°	966.8	922.9	845.5	780.5	736.6	703.2	687.3	678.5	671.5	669.8	668.0
7.5°	977.4	912.3	808.6	736.6	694.4	678.5	675.0	675.0	675.0	676.8	678.5
10°	1000.2	915.9	789.3	711.9	689.1	685.6	687.3	694.4	694.4	696.1	696.1
12.5°	1026.6	924.6	775.2	708.4	694.4	696.1	697.9	701.4	701.4	706.7	704.9
15°	1065.3	942.2	773.5	711.9	699.6	696.1	696.1	694.4	694.4	694.4	697.9
17.5°	1114.5	966.8	775.2	711.9	694.4	687.3	682.1	676.8	669.8	673.3	669.8
20°	1163.7	996.7	775.2	703.2	680.3	662.7	646.9	638.1	629.3	627.6	629.3
22.5°	1225.2	1031.9	766.4	683.8	650.4	625.8	603.0	590.6	576.6	571.3	567.8
25°	1278.0	1060.0	748.9	655.7	617.0	581.9	552.0	530.9	513.3	509.8	509.8
27.5°	1332.5	1084.6	722.5	620.5	569.6	530.9	497.5	471.1	453.5	451.8	450.0
30°	1383.5	1105.7	687.3	581.9	527.4	481.7	443.0	420.1	404.3	395.5	390.2
32.5°	1450.3	1133.8	653.9	543.2	478.1	432.4	397.3	377.9	356.8	342.8	337.5
35°	1534.6	1167.2	617.0	501.0	434.2	388.5	367.4	339.3	312.9	297.1	291.8
37.5°	1629.6	1214.7	578.3	457.0	390.2	356.8	344.5	300.6	272.5	267.2	265.4
40°	1747.3	1260.4	534.4	411.3	348.1	339.3	318.2	272.5	258.4	256.7	254.9
42.5°	1865.1	1309.6	492.2	365.6	314.7	318.2	288.3	265.4	253.1	249.6	247.9
45°	2002.2	1358.8	450.0	325.2	288.3	288.3	272.5	258.4	247.9	244.3	244.3
47.5°	2146.4	1408.1	404.3	290.1	269.0	258.4	260.2	249.6	242.6	239.1	237.3
50°	2327.4	1455.5	362.1	265.4	256.7	242.6	247.9	240.8	237.3	233.8	232.0
52.5°	2497.9	1476.6	323.4	251.4	249.6	235.6	237.3	233.8	232.0	226.8	225.0
55°	2664.9	1471.3	293.6	244.3	240.8	233.8	230.3	228.5	226.8	221.5	219.7
57.5°	2851.3	1464.3	274.2	242.6	235.6	228.5	228.5	223.3	216.2	216.2	216.2
60°	3044.6	1441.5	265.4	242.6	233.8	228.5	225.0	219.7	212.7	214.5	212.7
62.5°	3262.6	1397.5	260.2	247.9	235.6	226.8	223.3	216.2	207.4	209.2	207.4
65°	3454.2	1307.9	256.7	253.1	239.1	228.5	219.7	210.9	200.4	202.2	200.4
67.5°	3584.3	1156.7	246.1	256.7	244.3	226.8	216.2	203.9	189.9	196.9	195.1
70°	3547.4	940.5	226.8	249.6	249.6	228.5	210.9	195.1	179.3	193.4	188.1
72.5°	3260.9	706.7	189.9	225.0	246.1	228.5	200.4	181.1	167.0	175.8	165.2
75°	2677.3	479.9	151.2	179.3	230.3	230.3	191.6	167.0	149.4	144.1	140.6
77.5°	1670.0	298.8	117.8	131.8	193.4	228.5	182.8	149.4	124.8	121.3	117.8
80°	661.0	160.0	93.2	94.9	142.4	209.2	170.5	126.6	100.2	96.7	89.7
82.5°	151.2	80.9	65.0	63.3	87.9	170.5	154.7	100.2	77.3	77.3	65.0
85°	45.7	42.2	42.2	40.4	43.9	87.9	119.5	68.6	52.7	36.9	31.6
87.5°	12.3	17.6	15.8	14.1	14.1	12.3	38.7	17.6	10.5	5.3	3.5
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)