

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: P594763

Luminaire Tested: **ISS-PA1D-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594763
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-PA1D-830-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6773 lumens
Efficiency: N/A
Efficacy: 107.5 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

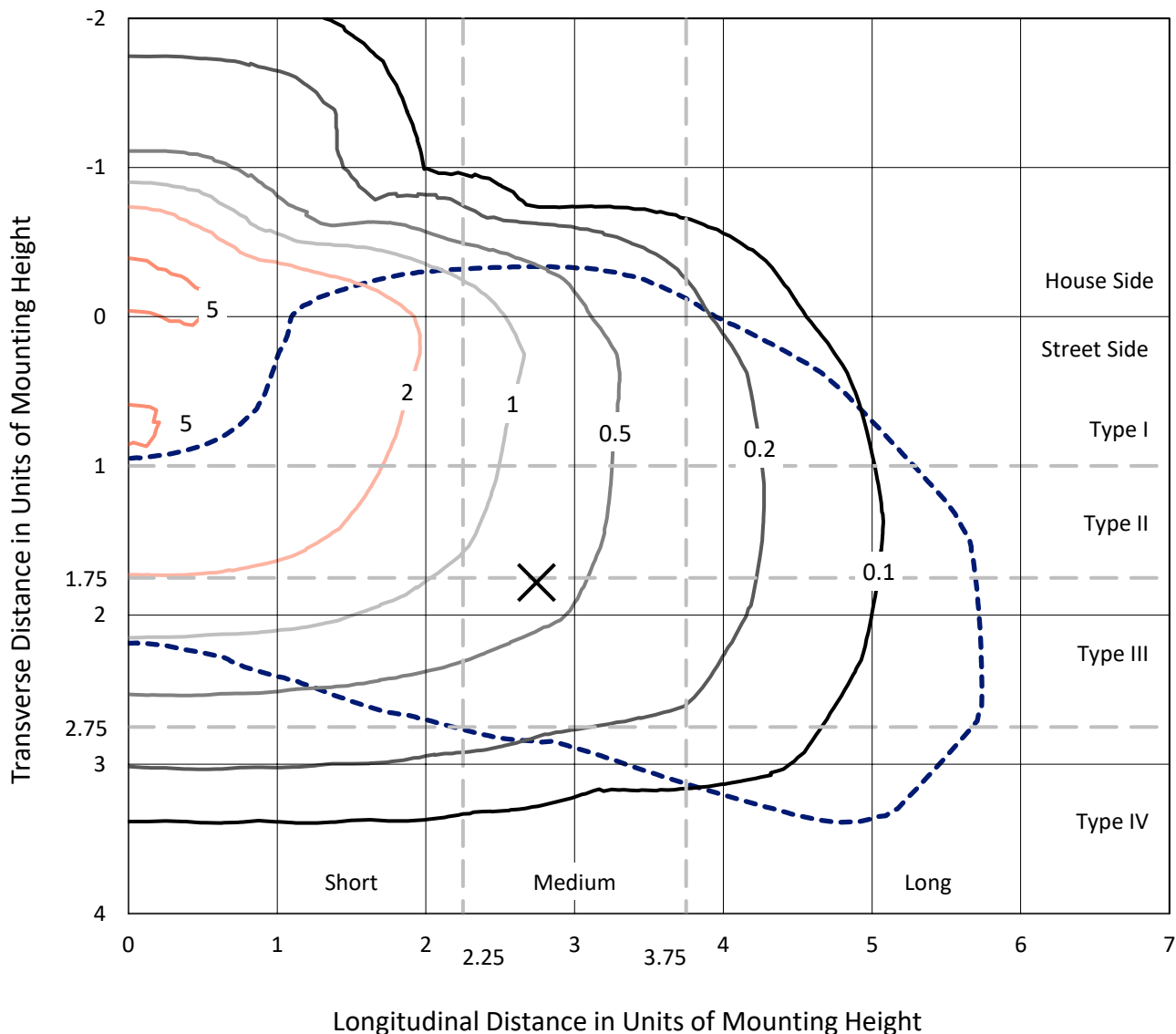
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

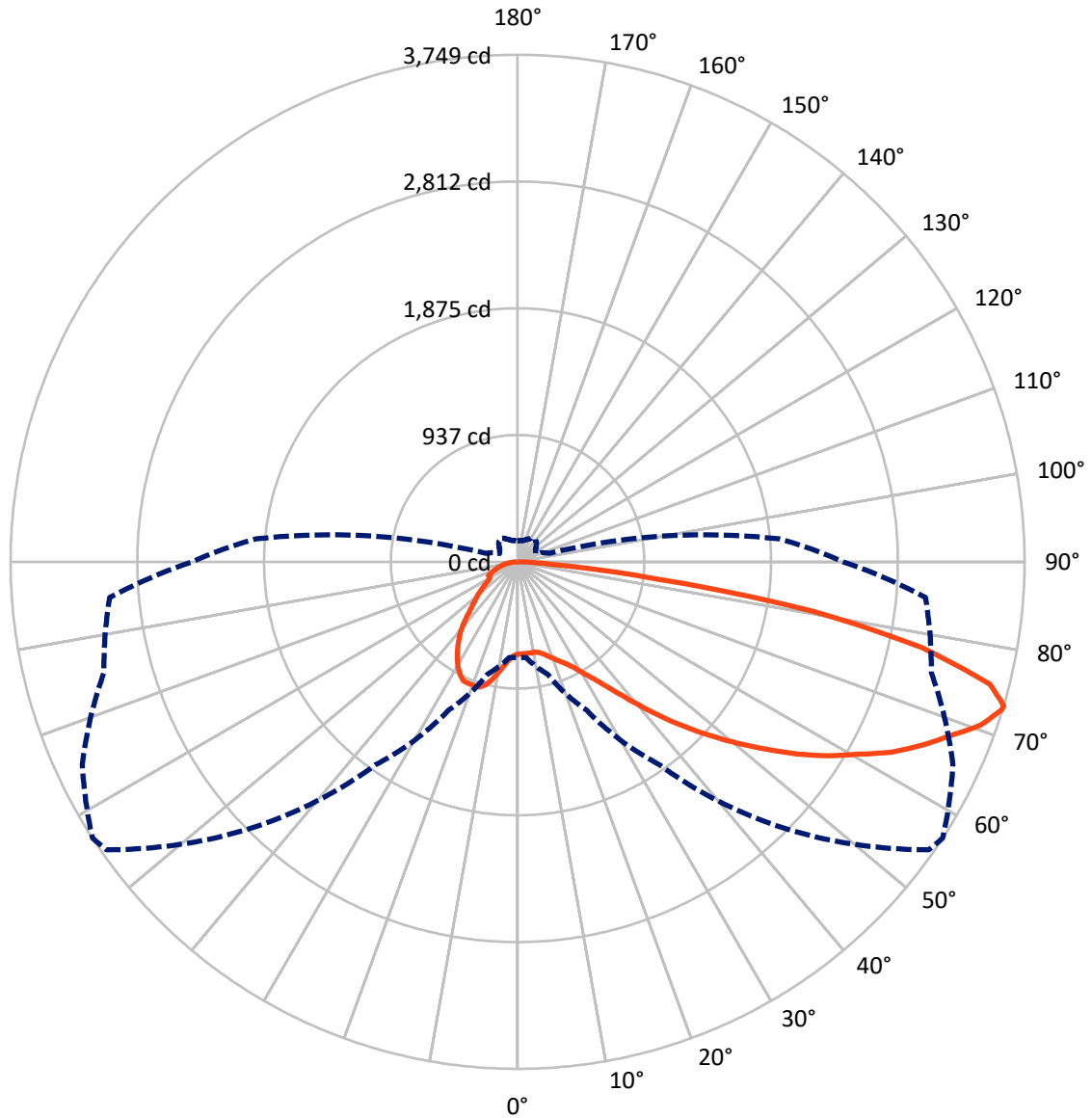
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 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
House Side	Lumens	1615.8	0.0	1615.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5157.2	0.0	5157.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	6773.0	0.0	6773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.0
10°-20°	224.1	3.3
20°-30°	413.6	6.1
30°-40°	638.7	9.4
40°-50°	961.4	14.2
50°-60°	1407.2	20.8
60°-70°	1661.7	24.5
70°-80°	1189.7	17.6
80°-90°	208.5	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°	6773.0	100.0
0°-180°	6773.0	100.0

Coefficient of Utilization

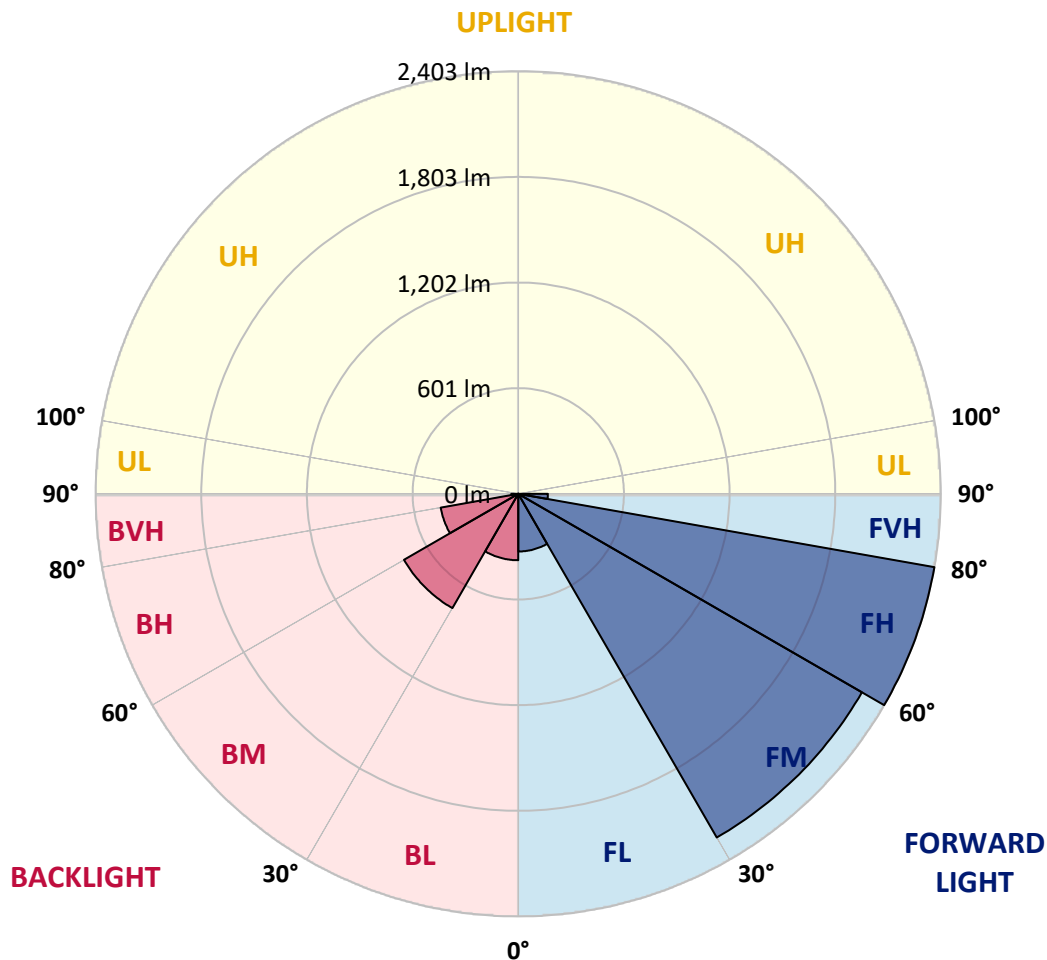


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.2	4.8			
FM (30°-60°)	2256.9	33.3			
FH (60°-80°)	2403.4	35.5			G2/5000
FVH (80°-90°)	168.7	2.5			G2/225
BL (0°-30°)	377.6	5.6	B1/500		
BM (30°-60°)	750.4	11.1	B1/1000		
BH (60°-80°)	448.0	6.6	B1/500		G1/500
BVH (80°-90°)	39.8	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-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	674.1	677.4	675.7	677.4	682.4	679.1	679.1	680.7	682.4	680.7	684.0
5°	645.9	647.5	650.8	657.5	669.1	672.4	680.7	680.7	684.0	687.4	692.3
7.5°	599.4	602.7	609.3	616.0	635.9	655.8	677.4	680.7	692.3	700.6	704.0
10°	591.1	594.4	596.0	606.0	625.9	645.9	672.4	679.1	700.6	713.9	728.9
12.5°	582.8	586.1	591.1	604.3	629.3	650.8	679.1	685.7	712.3	738.8	757.1
15°	589.4	591.1	596.0	609.3	634.2	664.1	700.6	705.6	735.5	768.7	796.9
17.5°	606.0	607.7	606.0	617.6	640.9	675.7	725.6	733.9	770.4	803.6	831.8
20°	644.2	645.9	639.2	639.2	655.8	690.7	752.1	763.7	808.6	845.1	873.3
22.5°	727.2	723.9	707.3	685.7	685.7	713.9	782.0	798.6	855.1	884.9	909.8
25°	845.1	845.1	818.5	778.7	752.1	748.8	816.9	835.1	901.5	938.1	953.0
27.5°	987.9	989.5	946.4	893.2	841.8	816.9	866.7	884.9	959.7	997.8	1002.8
30°	1114.1	1115.7	1072.6	1022.7	959.7	904.9	933.1	953.0	1039.3	1069.2	1052.6
32.5°	1240.2	1241.9	1212.0	1143.9	1077.5	1009.5	1017.8	1029.4	1117.4	1145.6	1119.0
35°	1349.8	1354.8	1324.9	1273.4	1203.7	1142.3	1127.3	1129.0	1208.7	1227.0	1192.1
37.5°	1461.1	1461.1	1442.8	1394.7	1334.9	1266.8	1246.9	1251.9	1323.3	1341.5	1291.7
40°	1602.2	1608.8	1598.9	1539.1	1471.0	1414.6	1394.7	1401.3	1479.3	1469.4	1416.2
42.5°	1773.2	1788.1	1771.5	1706.8	1633.7	1570.6	1570.6	1570.6	1637.1	1638.7	1559.0
45°	1992.4	1992.4	1975.8	1919.3	1823.0	1759.9	1738.3	1743.3	1801.4	1808.1	1715.1
47.5°	2175.0	2191.6	2173.3	2131.8	2055.4	1995.7	1927.6	1919.3	1967.5	1967.5	1887.8
50°	2322.8	2352.6	2337.7	2356.0	2301.2	2271.3	2131.8	2108.6	2125.2	2141.8	2053.8
52.5°	2445.6	2468.9	2463.9	2517.0	2543.6	2560.2	2339.4	2302.8	2316.1	2314.5	2234.8
55°	2453.9	2462.2	2536.9	2656.5	2761.1	2839.1	2548.6	2508.7	2495.4	2488.8	2427.4
57.5°	2405.8	2410.8	2560.2	2701.3	2928.8	3018.4	2746.1	2706.3	2688.0	2664.8	2639.9
60°	2289.6	2314.5	2510.4	2727.9	3028.4	3157.9	2930.4	2888.9	2875.6	2825.8	2882.3
62.5°	2141.8	2153.4	2349.3	2673.1	3041.7	3217.7	3124.7	3099.8	3058.3	2986.9	3098.1
65°	1932.6	1930.9	2103.6	2512.0	2973.6	3247.5	3289.1	3275.8	3224.3	3101.4	3290.7
67.5°	1587.2	1625.4	1794.8	2226.5	2809.2	3277.4	3456.7	3440.1	3358.8	3204.4	3382.0
70°	1210.4	1233.6	1426.2	1798.1	2482.1	3196.1	3621.1	3626.1	3478.3	3226.0	3342.2
72.5°	772.0	811.9	964.6	1310.0	1987.4	2893.9	3719.1	3742.3	3544.7	3196.1	3094.8
73°	707.3	710.6	860.0	1212.0	1833.0	2786.0	3712.4	3749.0	3551.4	3166.2	3026.7
75°	421.7	440.0	529.6	805.2	1308.3	2238.1	3533.1	3606.2	3516.5	3033.4	2653.2
77.5°	197.6	210.9	260.7	425.0	712.3	1346.5	2970.3	3056.6	3116.4	2654.8	2022.2
80°	104.6	106.3	127.8	214.2	381.9	554.5	2070.4	2213.2	2297.9	1999.0	1359.8
82.5°	88.0	88.0	99.6	137.8	244.1	215.8	853.4	1016.1	1245.2	984.6	534.6
85°	71.4	73.1	99.6	102.9	174.3	111.2	204.2	255.7	483.1	435.0	59.8
87.5°	23.2	26.6	56.5	73.1	93.0	43.2	51.5	56.5	56.5	83.0	19.9
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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	685.7	685.7	687.4	689.0	692.3	692.3	695.7	697.3	700.6	702.3	697.3
5°	692.3	695.7	699.0	708.9	720.6	730.5	740.5	748.8	757.1	762.1	760.4
7.5°	710.6	715.6	728.9	747.1	770.4	785.3	800.3	815.2	821.8	825.2	825.2
10°	735.5	745.5	770.4	800.3	826.8	850.1	861.7	871.7	875.0	878.3	875.0
12.5°	770.4	783.7	821.8	860.0	889.9	901.5	899.9	886.6	868.3	865.0	861.7
15°	815.2	831.8	875.0	919.8	943.0	928.1	889.9	876.6	873.3	883.3	880.0
17.5°	853.4	873.3	926.4	972.9	968.0	916.5	904.9	911.5	908.2	909.8	909.8
20°	889.9	918.1	974.6	1006.1	963.0	929.8	919.8	911.5	901.5	904.9	901.5
22.5°	936.4	956.3	1021.1	1022.7	956.3	929.8	908.2	891.6	888.3	889.9	891.6
25°	972.9	1004.5	1060.9	1011.1	956.3	903.2	873.3	870.0	871.7	881.6	878.3
27.5°	1022.7	1054.3	1092.5	1004.5	916.5	860.0	848.4	846.8	835.1	838.5	838.5
30°	1069.2	1107.4	1109.1	1004.5	866.7	823.5	806.9	777.0	752.1	757.1	755.4
32.5°	1132.3	1165.5	1112.4	964.6	810.2	775.4	730.5	684.0	672.4	679.1	680.7
35°	1205.4	1231.9	1115.7	898.2	753.8	707.3	625.9	599.4	597.7	602.7	607.7
37.5°	1301.7	1316.6	1140.6	821.8	699.0	601.0	537.9	531.3	516.4	506.4	508.1
40°	1419.6	1401.3	1188.8	753.8	634.2	504.7	478.2	459.9	431.7	403.5	408.4
42.5°	1550.7	1499.2	1203.7	699.0	546.2	445.0	420.1	391.8	357.0	327.1	325.4
45°	1691.8	1608.8	1190.4	655.8	458.2	400.1	373.6	340.4	298.9	273.9	273.9
47.5°	1859.5	1713.4	1148.9	621.0	396.8	360.3	327.1	293.9	265.6	242.4	242.4
50°	2043.8	1834.6	1119.0	559.5	353.6	322.1	288.9	262.3	240.7	222.5	222.5
52.5°	2238.1	1949.2	1094.1	469.9	315.5	287.2	264.0	242.4	224.1	200.9	197.6
55°	2435.7	2058.8	1105.8	383.5	280.6	262.3	247.4	225.8	219.2	214.2	210.9
57.5°	2641.5	2178.3	1134.0	313.8	250.7	249.0	242.4	257.3	272.3	262.3	257.3
60°	2802.6	2271.3	1137.3	264.0	232.4	262.3	295.5	300.5	260.7	237.4	235.8
62.5°	2930.4	2359.3	1059.3	229.1	237.4	308.8	315.5	265.6	225.8	215.8	215.8
65°	2996.8	2390.8	851.7	209.2	247.4	295.5	285.6	239.1	210.9	209.2	209.2
67.5°	2963.6	2365.9	596.0	187.6	219.2	255.7	255.7	219.2	194.3	202.6	199.2
70°	2804.2	2243.1	393.5	169.4	192.6	230.8	237.4	204.2	181.0	186.0	181.0
72.5°	2472.2	2023.9	259.0	149.4	166.0	204.2	220.8	187.6	166.0	164.4	159.4
73°	2407.4	1940.9	244.1	146.1	161.0	197.6	215.8	184.3	162.7	157.7	154.4
75°	2042.2	1618.8	184.3	131.2	142.8	177.7	200.9	172.7	149.4	142.8	139.5
77.5°	1487.6	1122.4	137.8	111.2	119.5	154.4	177.7	157.7	132.8	124.5	122.9
80°	928.1	611.0	102.9	89.7	94.6	129.5	156.1	141.1	114.6	104.6	102.9
82.5°	363.6	199.2	71.4	66.4	69.7	98.0	131.2	122.9	96.3	88.0	83.0
85°	59.8	68.1	46.5	44.8	44.8	69.7	99.6	94.6	64.8	56.5	49.8
87.5°	16.6	31.5	18.3	16.6	16.6	29.9	54.8	43.2	26.6	21.6	19.9
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)