

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: P594556

Luminaire Tested: **ISS-PA1B-735-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594556  
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-PA1B-735-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4882 lumens  
Efficiency: N/A  
Efficacy: 134.1 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

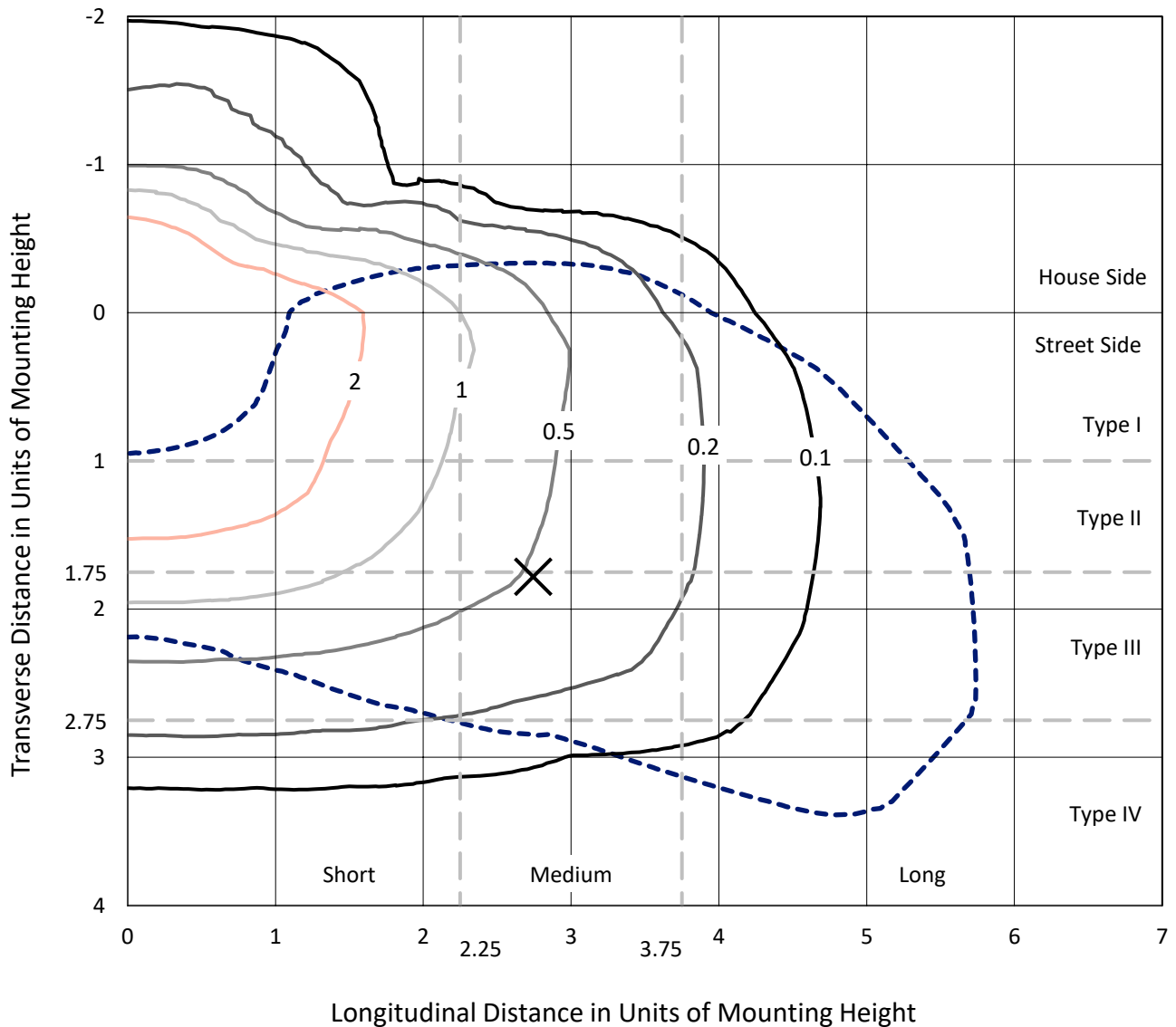
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

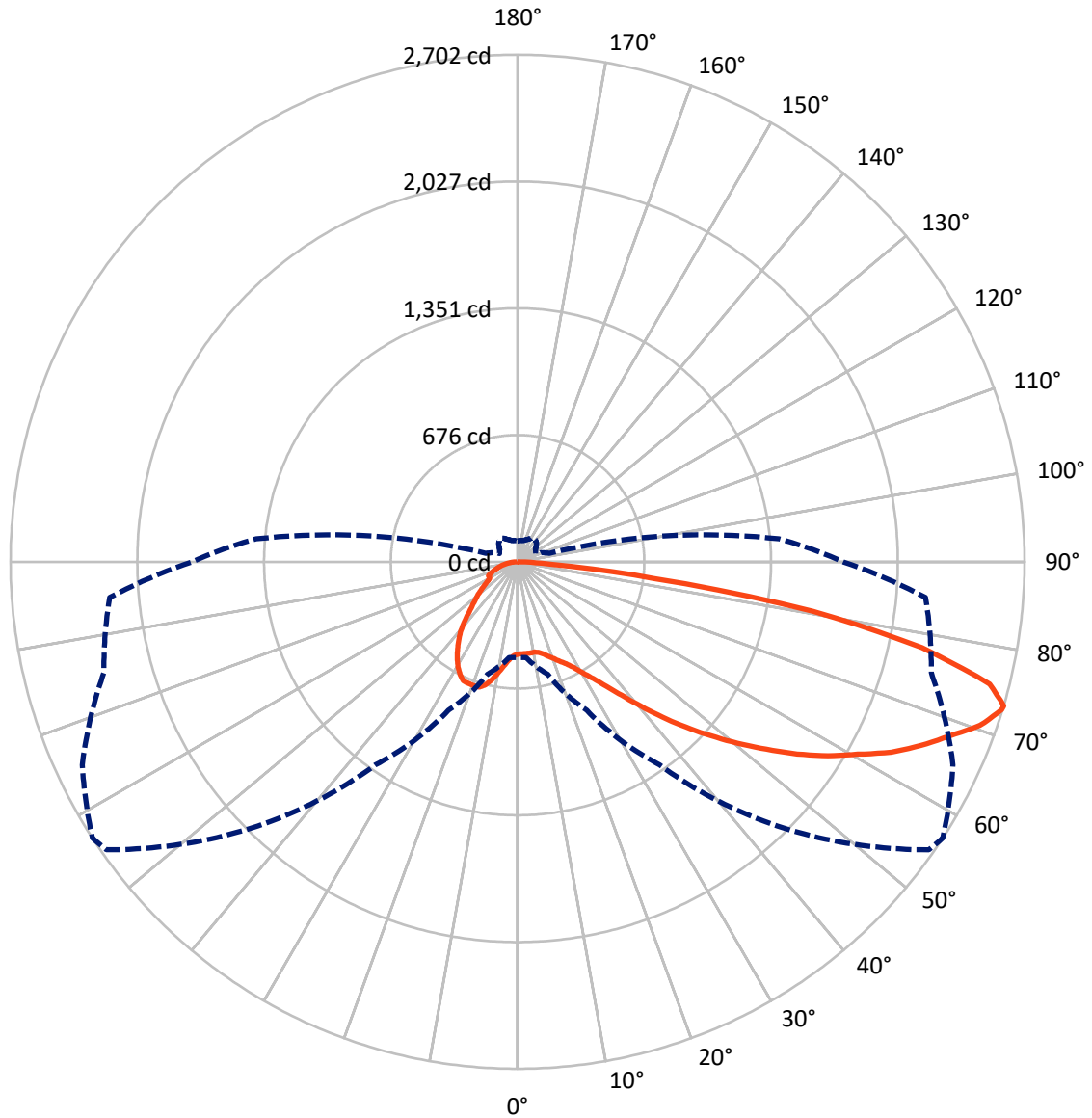
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	1164.7	0.0	1164.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3717.3	0.0	3717.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	4882.0	0.0	4882.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.0
10°-20°	161.5	3.3
20°-30°	298.2	6.1
30°-40°	460.4	9.4
40°-50°	693.0	14.2
50°-60°	1014.3	20.8
60°-70°	1197.8	24.5
70°-80°	857.5	17.6
80°-90°	150.3	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°	4882.0	100.0
0°-180°	4882.0	100.0

**Coefficient of Utilization**

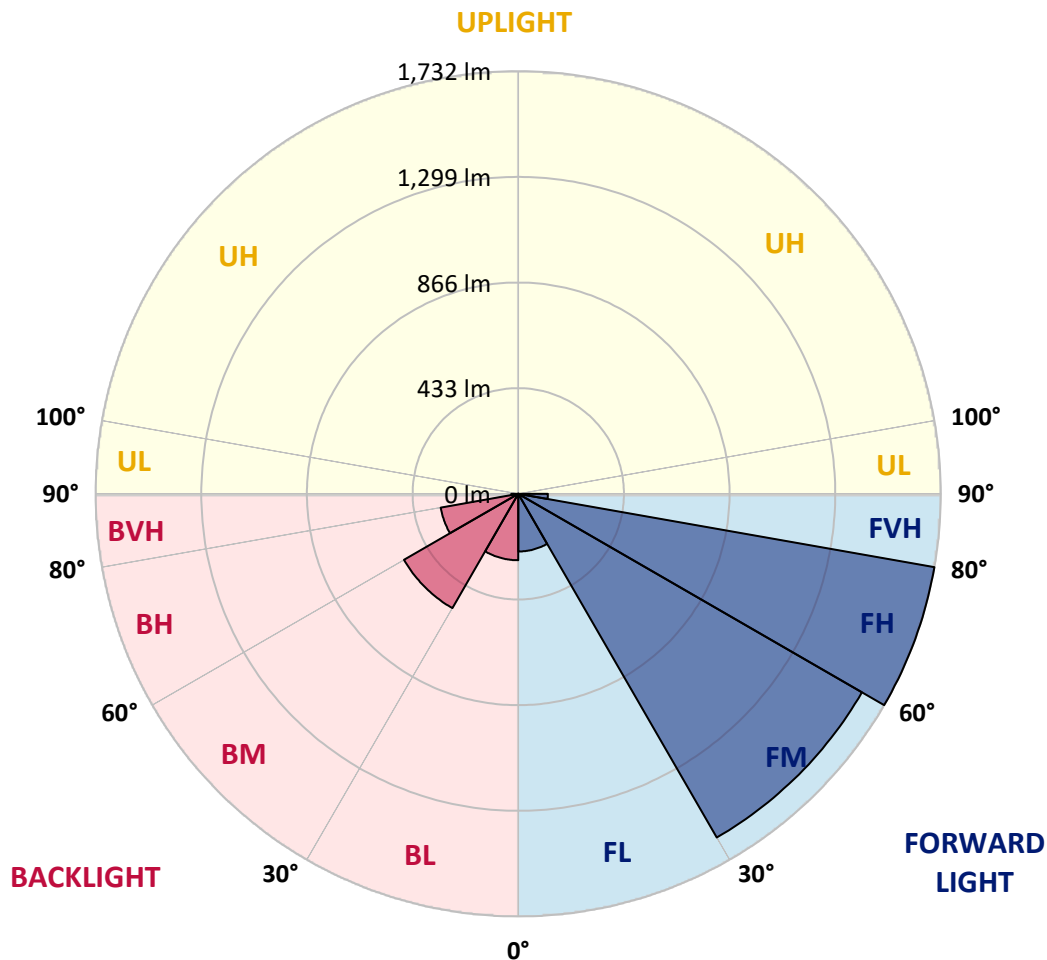


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	236.6	4.8			
FM (30°-60°)	1626.8	33.3			
FH (60°-80°)	1732.4	35.5			G1/1800
FVH (80°-90°)	121.6	2.5			G2/225
BL (0°-30°)	272.2	5.6	B1/500		
BM (30°-60°)	540.9	11.1	B1/1000		
BH (60°-80°)	322.9	6.6	B1/500		G1/500
BVH (80°-90°)	28.7	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°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	485.9	488.3	487.1	488.3	491.9	489.5	489.5	490.7	491.9	490.7	493.1
5°	465.5	466.7	469.1	473.9	482.3	484.7	490.7	490.7	493.1	495.5	499.0
7.5°	432.0	434.4	439.2	444.0	458.4	472.7	488.3	490.7	499.0	505.0	507.4
10°	426.0	428.4	429.6	436.8	451.2	465.5	484.7	489.5	505.0	514.6	525.4
12.5°	420.1	422.5	426.0	435.6	453.6	469.1	489.5	494.3	513.4	532.6	545.7
15°	424.8	426.0	429.6	439.2	457.2	478.7	505.0	508.6	530.2	554.1	574.4
17.5°	436.8	438.0	436.8	445.2	461.9	487.1	523.0	529.0	555.3	579.2	599.6
20°	464.3	465.5	460.7	460.7	472.7	497.8	542.1	550.5	582.8	609.1	629.5
22.5°	524.2	521.8	509.8	494.3	494.3	514.6	563.7	575.6	616.3	637.9	655.8
25°	609.1	609.1	590.0	561.3	542.1	539.7	588.8	602.0	649.8	676.2	686.9
27.5°	712.1	713.3	682.1	643.9	606.8	588.8	624.7	637.9	691.7	719.2	722.8
30°	803.0	804.2	773.1	737.2	691.7	652.2	672.6	686.9	749.2	770.7	758.7
32.5°	894.0	895.2	873.6	824.6	776.7	727.6	733.6	742.0	805.4	825.8	806.6
35°	973.0	976.5	955.0	917.9	867.6	823.4	812.6	813.8	871.2	884.4	859.3
37.5°	1053.1	1053.1	1040.0	1005.3	962.2	913.1	898.8	902.3	953.8	967.0	931.1
40°	1154.9	1159.6	1152.5	1109.4	1060.3	1019.6	1005.3	1010.1	1066.3	1059.1	1020.8
42.5°	1278.1	1288.9	1276.9	1230.3	1177.6	1132.1	1132.1	1132.1	1180.0	1181.2	1123.7
45°	1436.1	1436.1	1424.1	1383.4	1314.0	1268.6	1253.0	1256.6	1298.5	1303.3	1236.2
47.5°	1567.7	1579.7	1566.5	1536.6	1481.6	1438.5	1389.4	1383.4	1418.1	1418.1	1360.7
50°	1674.3	1695.8	1685.0	1698.2	1658.7	1637.2	1536.6	1519.9	1531.8	1543.8	1480.4
52.5°	1762.8	1779.6	1776.0	1814.3	1833.4	1845.4	1686.2	1659.9	1669.5	1668.3	1610.8
55°	1768.8	1774.8	1828.6	1914.8	1990.2	2046.4	1837.0	1808.3	1798.7	1793.9	1749.6
57.5°	1734.1	1737.7	1845.4	1947.1	2111.1	2175.7	1979.4	1950.7	1937.5	1920.8	1902.8
60°	1650.3	1668.3	1809.5	1966.3	2182.9	2276.2	2112.3	2082.3	2072.8	2036.9	2077.6
62.5°	1543.8	1552.2	1693.4	1926.8	2192.4	2319.3	2252.3	2234.3	2204.4	2153.0	2233.1
65°	1393.0	1391.8	1516.3	1810.7	2143.4	2340.8	2370.8	2361.2	2324.1	2235.5	2372.0
67.5°	1144.1	1171.6	1293.7	1604.8	2024.9	2362.4	2491.6	2479.7	2421.0	2309.7	2437.8
70°	872.4	889.2	1028.0	1296.1	1789.1	2303.7	2610.1	2613.7	2507.2	2325.3	2409.1
72.5°	556.5	585.2	695.3	944.2	1432.5	2085.9	2680.7	2697.5	2555.1	2303.7	2230.7
73°	509.8	512.2	619.9	873.6	1321.2	2008.1	2675.9	2702.3	2559.8	2282.2	2181.7
75°	304.0	317.1	381.8	580.4	943.0	1613.2	2546.7	2599.3	2534.7	2186.5	1912.4
77.5°	142.4	152.0	187.9	306.4	513.4	970.6	2141.0	2203.2	2246.3	1913.6	1457.6
80°	75.4	76.6	92.1	154.4	275.3	399.7	1492.3	1595.3	1656.3	1440.9	980.1
82.5°	63.4	63.4	71.8	99.3	175.9	155.6	615.1	732.4	897.6	709.7	385.4
85°	51.5	52.7	71.8	74.2	125.7	80.2	147.2	184.3	348.3	313.5	43.1
87.5°	16.8	19.1	40.7	52.7	67.0	31.1	37.1	40.7	40.7	59.8	14.4
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°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	494.3	494.3	495.5	496.7	499.0	499.0	501.4	502.6	505.0	506.2	502.6
5°	499.0	501.4	503.8	511.0	519.4	526.6	533.7	539.7	545.7	549.3	548.1
7.5°	512.2	515.8	525.4	538.5	555.3	566.1	576.8	587.6	592.4	594.8	594.8
10°	530.2	537.3	555.3	576.8	596.0	612.7	621.1	628.3	630.7	633.1	630.7
12.5°	555.3	564.9	592.4	619.9	641.5	649.8	648.6	639.1	625.9	623.5	621.1
15°	587.6	599.6	630.7	663.0	679.8	669.0	641.5	631.9	629.5	636.7	634.3
17.5°	615.1	629.5	667.8	701.3	697.7	660.6	652.2	657.0	654.6	655.8	655.8
20°	641.5	661.8	702.5	725.2	694.1	670.2	663.0	657.0	649.8	652.2	649.8
22.5°	675.0	689.3	736.0	737.2	689.3	670.2	654.6	642.7	640.3	641.5	642.7
25°	701.3	724.0	764.7	728.8	689.3	651.0	629.5	627.1	628.3	635.5	633.1
27.5°	737.2	759.9	787.5	724.0	660.6	619.9	611.5	610.3	602.0	604.4	604.4
30°	770.7	798.2	799.4	724.0	624.7	593.6	581.6	560.1	542.1	545.7	544.5
32.5°	816.2	840.1	801.8	695.3	584.0	558.9	526.6	493.1	484.7	489.5	490.7
35°	868.8	888.0	804.2	647.4	543.3	509.8	451.2	432.0	430.8	434.4	438.0
37.5°	938.3	949.0	822.2	592.4	503.8	433.2	387.7	383.0	372.2	365.0	366.2
40°	1023.2	1010.1	856.9	543.3	457.2	363.8	344.7	331.5	311.2	290.8	294.4
42.5°	1117.8	1080.7	867.6	503.8	393.7	320.7	302.8	282.4	257.3	235.8	234.6
45°	1219.5	1159.6	858.1	472.7	330.3	288.4	269.3	245.3	215.4	197.5	197.5
47.5°	1340.4	1235.0	828.1	447.6	286.0	259.7	235.8	211.8	191.5	174.7	174.7
50°	1473.2	1322.4	806.6	403.3	254.9	232.2	208.2	189.1	173.5	160.4	160.4
52.5°	1613.2	1405.0	788.7	338.7	227.4	207.0	190.3	174.7	161.6	144.8	142.4
55°	1755.6	1484.0	797.0	276.4	202.3	189.1	178.3	162.8	158.0	154.4	152.0
57.5°	1904.0	1570.1	817.4	226.2	180.7	179.5	174.7	185.5	196.3	189.1	185.5
60°	2020.1	1637.2	819.8	190.3	167.5	189.1	213.0	216.6	187.9	171.1	169.9
62.5°	2112.3	1700.6	763.5	165.2	171.1	222.6	227.4	191.5	162.8	155.6	155.6
65°	2160.1	1723.3	613.9	150.8	178.3	213.0	205.8	172.3	152.0	150.8	150.8
67.5°	2136.2	1705.4	429.6	135.2	158.0	184.3	184.3	158.0	140.0	146.0	143.6
70°	2021.3	1616.8	283.6	122.1	138.8	166.3	171.1	147.2	130.4	134.0	130.4
72.5°	1782.0	1458.8	186.7	107.7	119.7	147.2	159.2	135.2	119.7	118.5	114.9
73°	1735.3	1399.0	175.9	105.3	116.1	142.4	155.6	132.8	117.3	113.7	111.3
75°	1472.0	1166.8	132.8	94.5	102.9	128.1	144.8	124.5	107.7	102.9	100.5
77.5°	1072.3	809.0	99.3	80.2	86.2	111.3	128.1	113.7	95.7	89.8	88.6
80°	669.0	440.4	74.2	64.6	68.2	93.3	112.5	101.7	82.6	75.4	74.2
82.5°	262.1	143.6	51.5	47.9	50.3	70.6	94.5	88.6	69.4	63.4	59.8
85°	43.1	49.1	33.5	32.3	32.3	50.3	71.8	68.2	46.7	40.7	35.9
87.5°	12.0	22.7	13.2	12.0	12.0	21.5	39.5	31.1	19.1	15.6	14.4
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)