

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: P594045

Luminaire Tested: **ISC-PA1B-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISC-PA1B-727-U-T4W
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353 lumens
Efficiency: N/A
Efficacy: 119.6 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

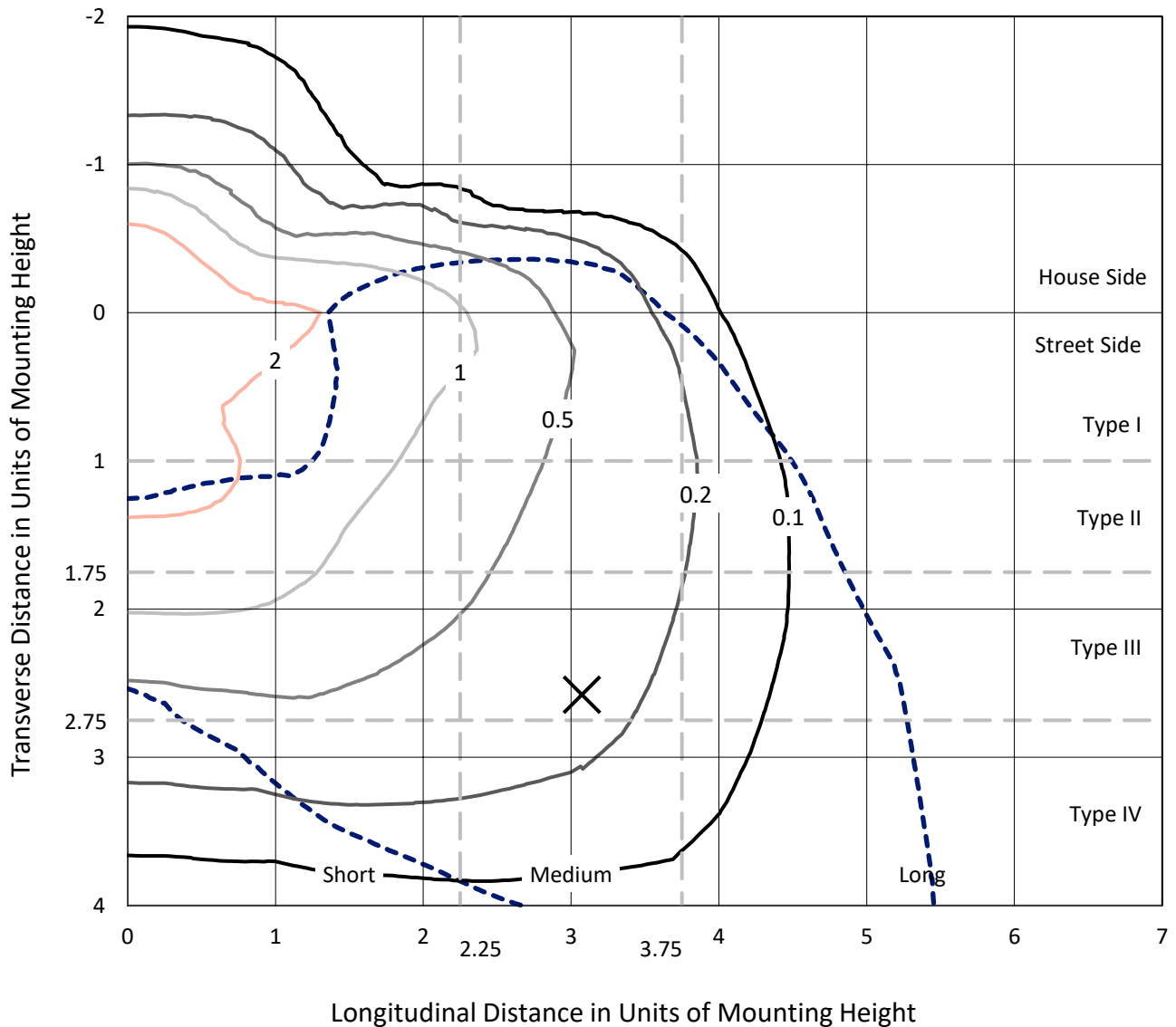
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

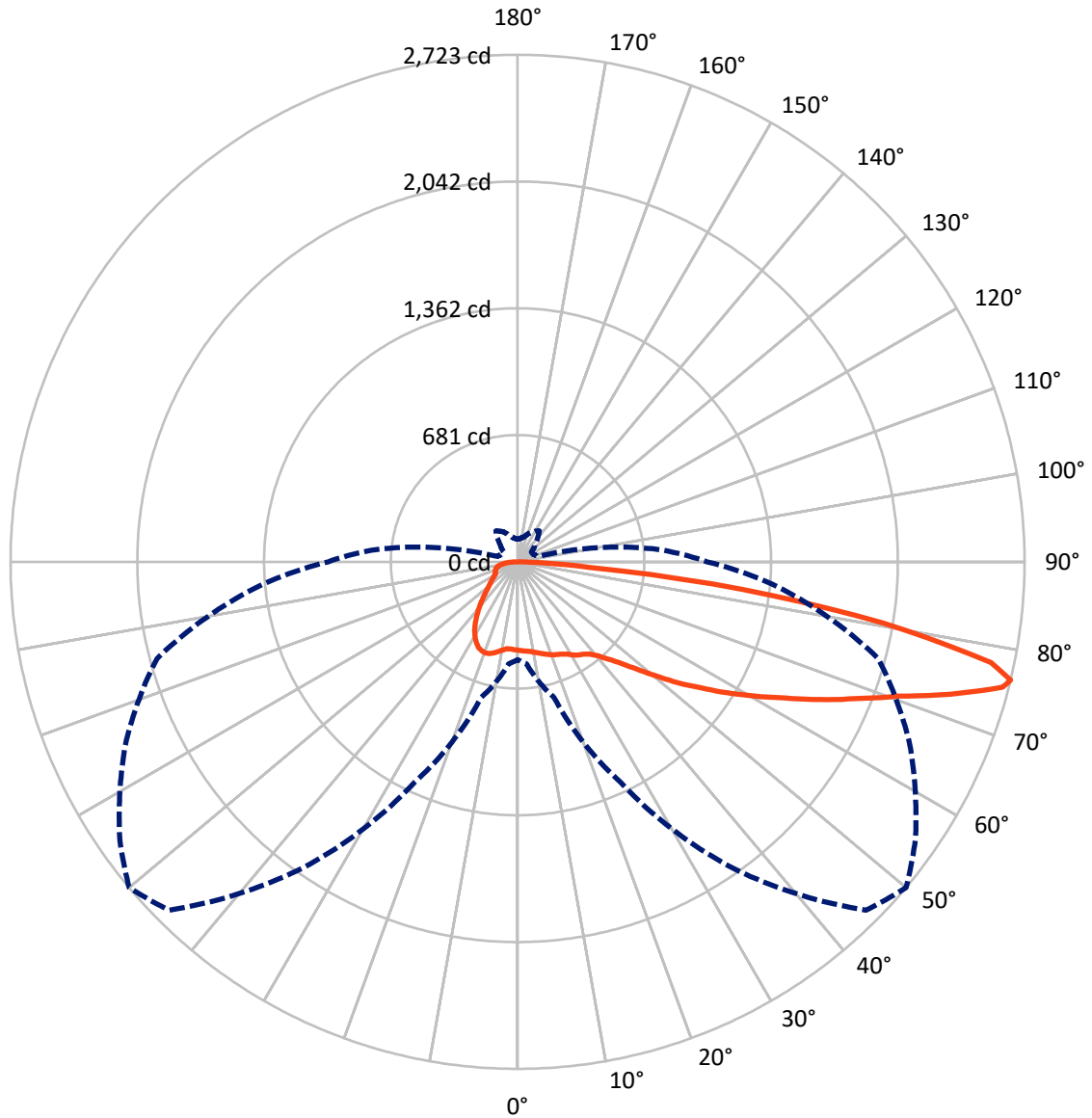
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	995.8	0.0	995.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3357.2	0.0	3357.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	4353.0	0.0	4353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.1
10°-20°	144.9	3.3
20°-30°	244.7	5.6
30°-40°	335.4	7.7
40°-50°	494.0	11.3
50°-60°	777.0	17.9
60°-70°	1118.5	25.7
70°-80°	1017.0	23.4
80°-90°	175.6	4.0
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°	4353.0	100.0
0°-180°	4353.0	100.0

Coefficient of Utilization

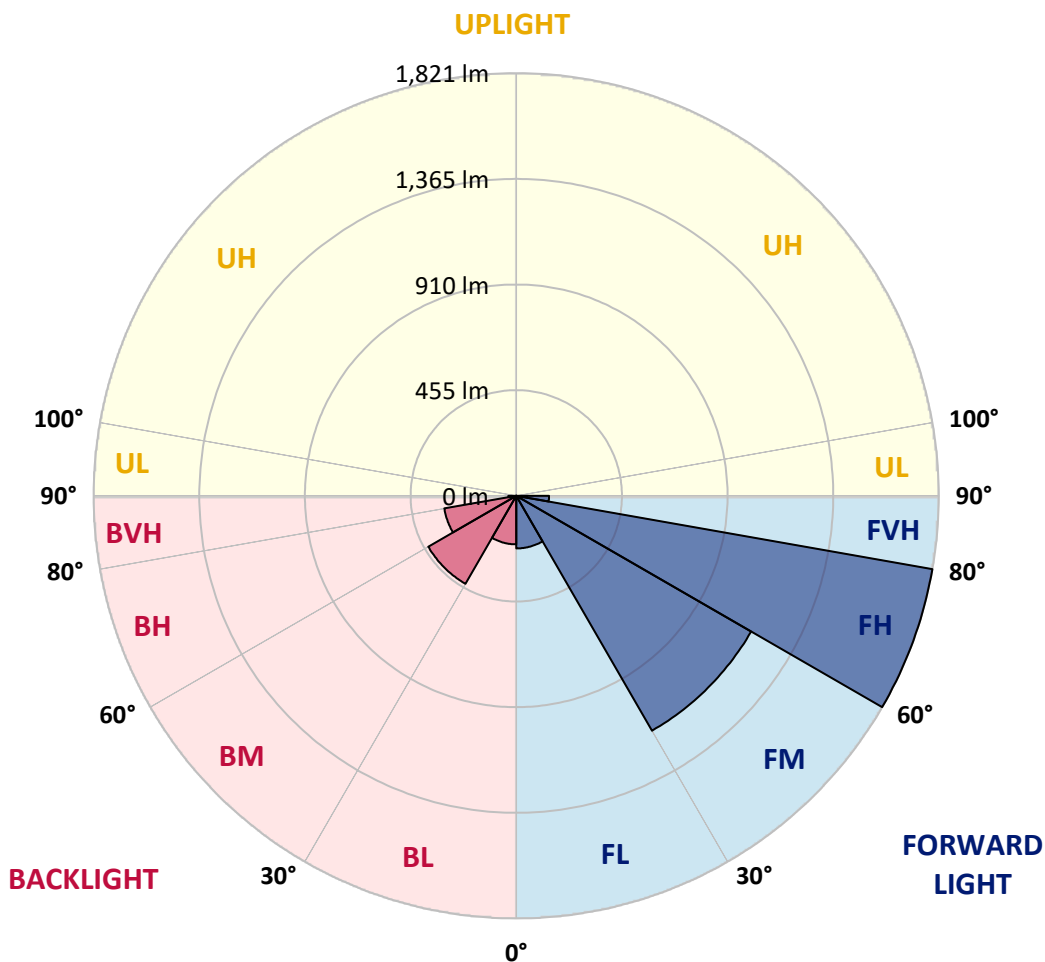


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	226.6	5.2			
FM (30°-60°)	1168.7	26.8			
FH (60°-80°)	1820.6	41.8			G2/5000
FVH (80°-90°)	141.3	3.2			G2/225
BL (0°-30°)	209.0	4.8	B1/500		
BM (30°-60°)	437.7	10.1	B1/1000		
BH (60°-80°)	314.8	7.2	B1/500		G1/500
BVH (80°-90°)	34.3	0.8			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°	50°	55°	65°	75°	85°
0°	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5
2.5°	485.1	485.1	486.2	484.1	484.1	478.7	478.7	477.7	475.5	474.5	472.3
5°	503.3	503.3	500.1	494.7	491.5	485.1	481.9	479.8	475.5	470.2	464.9
7.5°	522.4	520.3	518.2	509.7	503.3	491.5	486.2	483.0	474.5	467.0	463.8
10°	542.7	539.5	534.2	523.5	513.9	500.1	493.7	489.4	479.8	473.4	465.9
12.5°	554.4	554.4	548.0	535.2	522.4	505.4	502.2	496.9	487.3	478.7	471.3
15°	566.2	567.2	560.8	545.9	531.0	518.2	512.9	509.7	499.0	486.2	476.6
17.5°	577.9	576.8	570.4	553.4	537.4	525.6	522.4	518.2	507.5	495.8	486.2
20°	586.4	584.3	582.2	560.8	544.8	537.4	533.1	529.9	519.2	506.5	493.7
22.5°	588.6	590.7	588.6	563.0	550.2	541.6	540.6	537.4	528.8	517.1	504.3
25°	589.6	590.7	593.9	569.4	557.6	551.2	549.1	547.0	540.6	531.0	513.9
27.5°	594.9	596.0	596.0	573.6	567.2	563.0	560.8	560.8	557.6	545.9	528.8
30°	596.0	597.1	599.2	584.3	582.2	579.0	580.0	579.0	573.6	560.8	541.6
32.5°	603.5	604.5	609.9	590.7	592.8	596.0	597.1	596.0	585.4	574.7	558.7
35°	628.0	626.9	631.2	606.7	604.5	605.6	608.8	607.7	603.5	593.9	583.2
37.5°	706.9	706.9	695.2	644.0	628.0	625.9	628.0	633.3	634.4	625.9	617.3
40°	845.5	838.0	831.7	720.8	669.6	656.8	663.2	666.4	674.9	674.9	674.9
42.5°	988.4	989.5	987.3	840.2	744.2	712.2	713.3	720.8	738.9	742.1	751.7
45°	1115.3	1122.7	1138.7	978.8	854.0	782.6	775.1	782.6	808.2	829.5	854.0
47.5°	1214.4	1205.9	1241.1	1123.8	979.9	878.6	859.4	861.5	896.7	930.8	969.2
50°	1299.7	1301.9	1317.8	1272.0	1138.7	987.3	961.7	957.5	1007.6	1043.8	1108.9
52.5°	1395.7	1389.3	1412.7	1402.1	1293.3	1120.6	1080.1	1067.3	1121.7	1172.8	1243.2
55°	1441.5	1447.9	1495.9	1522.6	1439.4	1240.0	1195.2	1199.5	1257.1	1311.4	1409.5
57.5°	1522.6	1529.0	1584.4	1639.8	1569.5	1366.9	1327.4	1327.4	1392.5	1453.3	1604.7
60°	1633.4	1634.5	1691.0	1787.0	1683.6	1489.5	1463.9	1462.9	1533.2	1603.6	1835.0
62.5°	1682.5	1695.3	1779.5	1904.3	1832.8	1639.8	1610.0	1618.5	1681.4	1763.5	2091.9
65°	1616.4	1644.1	1820.0	1983.2	1966.1	1796.6	1784.8	1796.6	1835.0	1923.5	2363.8
67.5°	1397.8	1435.1	1745.4	2036.5	2072.7	1977.8	1960.8	1958.6	1983.2	2082.3	2535.5
70°	1284.8	1307.2	1548.1	2056.7	2158.0	2161.2	2161.2	2147.4	2144.2	2216.7	2551.5
72.5°	1057.7	1081.1	1306.1	1943.7	2239.1	2406.5	2431.0	2379.8	2300.9	2286.0	2283.8
75°	753.8	770.9	964.9	1529.0	2135.6	2642.1	2691.1	2592.0	2372.3	2134.6	1665.4
76°	525.6	550.2	753.8	1306.1	2005.6	2646.4	2723.1	2608.0	2324.4	2004.5	1372.2
77.5°	266.6	275.1	436.1	877.5	1678.2	2524.8	2599.4	2470.4	2115.4	1619.6	871.1
80°	101.3	104.5	155.7	319.9	921.2	1960.8	1989.6	1815.8	1399.9	692.0	313.5
82.5°	53.3	55.4	87.4	157.8	378.5	1077.9	1216.6	1012.9	549.1	207.9	91.7
85°	26.7	28.8	51.2	96.0	187.7	336.9	390.2	368.9	182.3	78.9	34.1
87.5°	10.7	12.8	25.6	42.6	75.7	66.1	73.6	94.9	58.6	37.3	11.7
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°	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5	474.5
2.5°	472.3	471.3	472.3	471.3	472.3	472.3	473.4	471.3	471.3	473.4	470.2
5°	464.9	463.8	464.9	467.0	468.1	470.2	474.5	473.4	475.5	477.7	478.7
7.5°	461.7	460.6	463.8	464.9	468.1	472.3	478.7	483.0	485.1	489.4	487.3
10°	464.9	464.9	469.1	472.3	477.7	483.0	488.3	492.6	497.9	501.1	500.1
12.5°	470.2	469.1	476.6	480.9	488.3	493.7	497.9	500.1	504.3	508.6	507.5
15°	475.5	476.6	487.3	495.8	504.3	506.5	507.5	505.4	507.5	509.7	509.7
17.5°	486.2	487.3	499.0	508.6	516.0	513.9	508.6	503.3	503.3	504.3	505.4
20°	494.7	496.9	510.7	519.2	523.5	515.0	506.5	500.1	496.9	497.9	496.9
22.5°	504.3	508.6	522.4	526.7	520.3	509.7	499.0	490.5	490.5	491.5	491.5
25°	516.0	518.2	527.8	525.6	513.9	497.9	489.4	486.2	485.1	486.2	487.3
27.5°	526.7	527.8	533.1	518.2	495.8	478.7	475.5	476.6	477.7	478.7	479.8
30°	540.6	542.7	537.4	507.5	473.4	454.2	454.2	460.6	462.7	465.9	464.9
32.5°	557.6	559.8	543.8	493.7	444.6	425.4	426.5	436.1	442.5	444.6	445.7
35°	586.4	582.2	548.0	474.5	413.7	390.2	391.3	403.0	411.6	414.8	412.6
37.5°	621.6	620.5	554.4	449.9	375.3	354.0	355.1	360.4	368.9	370.0	371.0
40°	680.2	671.7	565.1	418.0	336.9	316.7	314.5	317.7	316.7	318.8	319.9
42.5°	764.5	742.1	579.0	381.7	302.8	281.5	279.3	274.0	267.6	261.2	258.0
45°	863.6	828.5	596.0	344.4	267.6	248.4	243.1	236.7	223.9	210.0	205.8
47.5°	991.6	924.4	615.2	307.1	234.6	219.6	215.4	205.8	190.9	174.9	171.7
50°	1122.7	1037.4	634.4	276.2	207.9	199.4	195.1	185.5	166.3	151.4	148.2
52.5°	1275.2	1149.4	654.7	248.4	184.5	184.5	181.3	166.3	148.2	134.3	132.2
55°	1451.1	1264.5	686.6	221.8	167.4	171.7	167.4	152.5	135.4	125.8	124.7
57.5°	1661.2	1410.6	727.2	193.0	152.5	155.7	155.7	145.0	133.3	126.9	125.8
60°	1872.3	1558.8	752.8	171.7	140.7	143.9	150.3	145.0	137.5	134.3	133.3
62.5°	2074.9	1710.2	709.0	153.5	129.0	138.6	154.6	155.7	148.2	149.3	149.3
65°	2226.3	1825.4	573.6	137.5	121.5	141.8	167.4	168.5	155.7	152.5	151.4
67.5°	2278.5	1857.4	386.0	126.9	117.3	143.9	182.3	178.1	155.7	149.3	146.1
70°	2179.3	1740.1	250.6	117.3	110.9	141.8	194.1	183.4	154.6	145.0	140.7
72.5°	1827.5	1484.2	167.4	108.8	104.5	139.7	201.5	183.4	151.4	137.5	133.3
75°	1268.8	1014.0	124.7	98.1	94.9	136.5	203.6	180.2	143.9	129.0	125.8
76°	1018.2	760.2	113.0	93.8	90.6	134.3	202.6	177.0	138.6	124.7	121.5
77.5°	642.9	437.1	94.9	86.4	84.2	130.1	198.3	169.5	131.1	117.3	114.1
80°	225.0	159.9	72.5	70.4	71.4	120.5	186.6	154.6	116.2	103.4	99.2
82.5°	89.6	73.6	54.4	54.4	56.5	103.4	168.5	136.5	101.3	85.3	78.9
85°	35.2	32.0	38.4	38.4	40.5	84.2	140.7	106.6	69.3	53.3	51.2
87.5°	10.7	14.9	17.1	18.1	19.2	42.6	80.0	46.9	30.9	22.4	18.1
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)